



**Amar Sewa Mandal's**

# **Kamla Nehru Mahavidyalaya**

**Nagpur – 440024 (Maharashtra)**

[www.kamlanehrucollege.ac.in](http://www.kamlanehrucollege.ac.in)

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## **SELF STUDY REPORT (THIRD CYCLE)**

**Submitted to**

**National Assessment and  
Accreditation Council (NAAC),  
Bengaluru**

**April 2017**

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**NAAC Steering Committee**

Sr. No.	Name	Designation
1.	<b>Dr. A. K. Shende</b>	Chairman, Principal
2.	<b>Dr. P. B. Dahikar</b>	Co-ordinator, Steering Committee
3.	<b>Dr. S. S. Mukherjee</b>	Co-ordinator, IQAC
4.	<b>Dr. W. B. Gurnule</b>	Member
5.	<b>Dr. D. S. Badwaik</b>	Member
6.	<b>Dr. S. D. Deshbratar</b>	Member
7.	<b>Dr. A. P. Mahajan</b>	Member
8.	<b>Dr. N. D. Kashikar</b>	Member



## PREFACE

It gives me great pleasure to present the Self- Study Report of our college for the third cycle. Amar Sewa Mandal's 'Kamla Nehru Mahavidyalaya', Nagpur was assessed and accredited by National Assessment and Accreditation Council (NAAC), Bengaluru in 2004 and was awarded 'A' grade. The Internal Quality Assurance Cell (IQAC) was established on 15<sup>th</sup> July 2004.

The College was re-assessed by NAAC, Bengaluru in December, 2012 for second cycle and was awarded 'A' grade (CGPA 3.13).

One of the best learning centers in Rashtrasant Tukadoji Maharaj Nagpur University, the college offers conventional, professional and vocational programmes from UG to PG and Research level in Arts, Science and Commerce faculties.

Post reaccreditation, the college has fulfilled the recommendations made by the Peer Team. In depth academic and administrative audits have helped to carry out facility management, ensuring quality sustenance and enhancement. During past five years the college has witnessed remarkable changes. Many new programmes have been introduced.

I extend my heartfelt gratitude towards the President of Amar Sewa Mandal, hon'ble Dr. Smt. Suhasini Wanjari, who has taken keen interest in the developments of the college and has been a constant source of inspiration. I also wish to thank our hon'ble Secretary of the society Adv. Abhijit Wanjari for his dynamic leadership and innovative ideas. I also acknowledge the wholehearted support provided by the members of Local Managing committee.

I shall fail in my duties, if I do not acknowledge the sincere efforts of all the members of Internal Quality Assurance Cell (IQAC), co-ordinators of seven criteria, Head of the departments, teachers and support staff who have played an important role in ensuring quality assurance while propagating quality initiatives.

**Dr. A. K. Shende**  
**Principal**



## Executive Summary

### Criterion 1

The institution aims to pursue various thrust areas of learning, and transform the traditional process of imparting education to a vibrant source of enlightenment. The college offers conventional, professional and vocational programmes from UG, PG to Research level in Arts, Science and Commerce faculty. There is a great deal of flexibility available to the students. At UG Level, there are **11** departments in Science at UG level which are divided into suitable groups. **08** programmes are offered in Arts with grouping options and Commerce faculty has B.Com with Computer Application and a Professional course in the form of Bachelor of Business Administration in its purview. All the **11** departments in Science are offering PG courses in **6** departments in Arts are offering PG course. There is also PG in Commerce. There are **06 Research Centers**, namely Physics, Chemistry, Electronics, Maths, Computer Science & Commerce. The institute has taken efforts to supplement university curriculum by introducing add-on programmes. **3** Add on Courses and **07** Certificate Courses are run in addition to the regular curriculum of the University.

Thus, along with the implementation of the syllabus prescribed by the University, the college endeavors to provide career oriented training to the students of this relatively backward area to meet the imperatives of growth. Curriculum update with emphasis on knowledge, skills, global competencies leading to employability, is done through the **11** members of the BOS. Involvement of academic experts, experts from industries and academicians, is ensured while developing curriculum. Optimum utilization of books related to the curriculum, is sought every year by the inclusion of a large number of books and journals to the college library.

Moreover, in order to focus on the core values of NAAC, the college aims at providing ethical education which would be synonymous to scientific and technological progress, along with the emphasis on Social and National development.

### Criterion 2

Empowering young minds with knowledge and sculpting budding aspirants into successful professionals is done by giving them ultimate corporate as well as industrial exposure, in the form of convergence of industrial training programs, projects and visits with the actual teaching- learning process. Upgradation of the laboratories with modern equipments enhances on hand practical and experimental learning for the students.



Continuous assessment and evaluation fosters corrective learning. Access to the central library strengthens the execution of the teaching-learning process.

In order to make teaching more **student centric**, the college has included the following provisions:

- a. Arranging bridge courses and remedial courses for slow learners.
- b. Encouraging advanced learners through research projects, competitive exams.
- c. Making available ICT assisted teaching along with use of interactive, collaborative and independent learning.
- d. Introducing skill based vocational courses with hands on training.

The institution meticulously plans and organizes its teaching schedule. A comprehensive academic calendar, faculty wise time tables and teaching plan ensure meticulous planning. Feedback on teaching is received from students for 100% courses. The feedback are analyzed and communicated to the teachers. The institute has adequate and qualified faculty.

The institute facilitates the participation of teachers in teachers-recharge programs. Teachers have participated in Orientation /refresher programmes/Summer or winter schools on **09** occasions and in conferences/ seminars/workshops on **454** occasions.

The evaluation system is transparent and there is mechanism for redressal of grievances pertaining to examinations.

### **Criterion 3**

A Research Advisory Committee (RAC) has been constituted to focus on various areas of research and promote, monitor and evaluate minor as well as major research projects of different departments. The faculty is continuously persuaded/encouraged for submission of research, projects on issues of regional and global importance. As a result as many as **74** research papers have been published in National and **297** have been published in International Journals. Similarly about **131** Research Papers of the faculty members have been published in the proceedings of different State, National and International Seminars/ Conferences/ Symposiums/ Workshops. Besides, **1030** citations of the papers in journals have been made. Moreover around **114** books have been published by the faculty. There have been **two** patents obtained till date. The research committee has encouraged strengthening of student research projects, submission of research proposals by teachers and orientation of staff and students.



Seed money has been provided to students and teachers for Student Research Projects, Avishkar, and Teachers' Research Projects. An amount of **2,60,164/-** has been utilized for **Student Research Project Scheme**, and **42,96,858/-** has been utilized for **Teachers Research Scheme**.

The teachers from the college received financial assistance for **12 Research Projects**. Out of these, **09** Minor Research and **03** Major Projects have been completed.

The college has organized **10 National and 01 State level Conferences/Symposia/Seminars/workshops**. The college has received grant from DST (Department of Science and Technology under FIST scheme and has received a financial assistance of **50,00,000** for infrastructural development.

During the assessment period, the college has adopted **2 villages** as a part of ISR and has carried out activities such as construction of check dams, conducting of haemoglobin and blood group camps, cleanliness drives, plantation, road maintenance etc. The college has collaborated with **14 organizations** of National and International repute through **formal MoUs** for placements, curriculum developments, on-site training etc. The college enjoys constructive relationships with Blood banks and NGOs and hence organizes several community and outreach activities in collaboration with them.

Several Teachers are also involved in providing paid as well as free of cost consultancy, as a service to the society. The total revenue generated is **Rs.1,61,150/-**

Almost all the extension activities of the college are carried out under the aegis of NSS and NCC.

#### **Criterion 4**

Constant up gradation and modernization of the laboratories and library are done in order to provide the students with the best infrastructure and learning resources. Health care centre takes proper care of the students as well as teachers during sudden illness. Well equipped home gym and multi station gym, along with indoor and out door sports facilities, keeps the students' fit and healthy. Common room for girls' students, Placement Centre, health centre, vehicle parking, canteen, telephone, internet, drinking water, etc. are the facilities available for the students. There are 2 girls' hostels namely Kamla Nehru Girls' Hostel and Priya darshini girls Hostel in the vicinity.

There are **36 classrooms** and **22 laboratories** available for the students and staff. There are 2 Auditoriums available for co-curricular activities. Apart from these, there is an open ground which is utilized for mega cultural events and other extracurricular





activities. The library has subscribed to **NLIST INFLIBNET** facility. It also provides a dedicated server for e-resources such as e-books and NPTEL resources. There are **343 computers, 32 printers, 09 scanners and 11 LCD projectors** available in the college. Maintenance of the campus facilities is carried out through Annual maintenance contracts for House-keeping, security.

#### **Criterion 5**

Student's welfare and well being has been a matter of primary concern for the institution. Excellent social profile representing **75%** of students from marginalized and disadvantaged sections of society and around **70%** of students of the institution are women, indicating the thrust to importance of women's education and empowerment. Students' Welfare Committees such as Guidance Cell and Placement Unit, Grievance and Redressal Cell, Committee for Prevention of Sexual Harassment against Women, Alumni Association function for the overall development of the student. Nurturing of the literary, linguistic and cultural talents is done by motivating and deputing them for participating in various competitions. Bodies like Student's Council and Alumni Association provide a stable platform to the students to develop themselves.

The college has a functional Placement Cell. The college has succeeded in inviting **13** companies to conduct on-campus placement drives. **199** students have been placed in reputed companies of National and International repute. **346** students have participated in various National/International/State/University level sports events. **155** students have participated in various National/International/State/University level cultural and other co-curricular activities activities.

#### **Criterion 6**

The college is governed by **Amar Sewa Mandal**. The Management Council and **LMC** provide necessary guidelines for making the atmosphere conducive in the institution.

Institution takes efforts to ensure that the vision, mission and goals of the institution are in tune with the objectives of higher education. The institution practices decentralization and participative management. The institute has a perspective plan for development. Leadership is groomed at all the levels. Management Council, LMC, IQAC and other administrative/non-administrative bodies meet regularly to take review. Feedback from various stakeholders obtained formally and informally is utilized to review the activities of



the college. Co-operative credit society for staff and scheme of advances. Special efforts have been taken towards welfare of staff.

Fine tuning of Vision and Mission statements is done through different cultural programs organized from time to time. The duties and responsibilities are defined through different committee meetings and decentralization of the leadership is done through committee system. Transparency in the overall administration process is ensured. Similarly establishment of new courses and redeployment of staff from the main departments is done under the careful supervision of the Principal and the Management. Austerity measures in financial management so as to provide optimum utilization of funds for totalitarian growth. Hence proper mobilization of funds received from the UGC for research projects, learning resources, infrastructural development, etc is done. Efforts have been made to secure funds from various funding agencies while ensuring timely utilization.

Internal and external auditing of academic and administrative activities is also a regular practice of the administration.

### **Criterion 7**

The Institutional Vision, Mission, goals – objectives, planning, programs and functional processes reflect the Core Values of NAAC. Access, equity and social justice are ensured by maintaining transparency in admission. The highlighting features in innovations are as under:-

- Provision of admission to **83%** of students belonging to SC/ST, OBC category and rural areas, which shows the institution's focus on imparting education to the marginalized sections of the society.
- Identification of the curricular needs and their utility from the employability point of view is done and initiation of new Career Oriented Programs from job getting point of view in various domains are conducted.
- Student's Welfare is the primary motive and thus various bodies for student's development are constituted.
- College conducts **green audit** of the campus with the help of the Botany department of the college. Students have participated in collection of data for Green Audit as a part of Student Research Project.
- Efforts for energy conservation have been taken by installing solar water panels in Hostel.



- Rainwater Harvesting has been done.
- Efforts for Bird Conservation and Protection have been taken. The college has 55 trees, 99 shrubs, 1 lawn and 130 potted plants in its premises.
- Regular Academic and administrative audits.
- Feedback on Teaching by the Students for 100% courses.
- Mahatma Gandhi and Jawaharlal Nehru Study Centre.
- Promoting Scientific Culture through Science Study Circle and various departments of Science.
- Promoting Research Culture through the Research Advisory Committee. (RAC)
- Virtues and values in the students are instilled through different cultural programmes and extension activities of the NSS and NCC.



## SWOC Analysis

### Strengths

1. Highly qualified and experienced permanent teaching staff with majority having Doctoral degrees.
2. Multi Disciplinary Research Journal.
3. Well equipped Central library with **40,023** numbers of books and **96** journals.
4. Campus is equipped with state of the art Conference Hall, Auditorium, Language lab, Gymnasium, etc.
5. Smart class room equipped with state of art audio visual amenities.
6. Adequate laboratory infrastructure to run UG programs.
7. Several UGC sponsored Career Oriented and skill based Programs.
8. Decentralized Administration with delegated authority up to department head level resulting in quick decision making process.
9. Collective leadership, responsibility and team-work with feedback oriented performance appraisal.
10. Strong students' Support Services.

### Weaknesses

1. Comparatively small campus having very small area with little scope for expansion.
2. For sports activities playground is not available for major games.
3. Drop out rate has to be reduced.
4. Proximity to slum area which results in intake of low-income-group students.

### Opportunities

1. The institution is centrally located.
2. Increase in number of Research Scholars in Research Laboratories.
3. Asia Pacific Quality Network (APQN) Membership
4. Chance to Collaborate with University of Huddersfield & work with International Experts.
5. Empowering girls' students through various educational components due to high girls' student ratio. (70%)
6. Grants received from different government & non government departments.



**Challenges**

1. High dropout rate.
2. Low motivational level, as students are from low income groups.
3. Out dated Curriculum
4. Low Employability Skills & Course outcome.
5. Lack of Communication skills in English, since students are from vernacular medium.



## SECTION B: PREPARATION OF SELF-STUDY REPORT

### A. Profile of the Affiliated/Constituent College

#### 1. Name and Address of the College:

Name:	KAMLA NEHRU MAHAVIDYALAYA	
Address:	SAKKARDARA SQUARE, UMRED ROAD, NAGPUR	
City: NAGPUR	Pin:440024	State:MAHARASHTRA
Website:	<a href="http://www.kamlanehrucollege.ac.in">http://www.kamlanehrucollege.ac.in</a>	

#### 2. For Communication:

Designation	Name	Telephone withSTDcode	Mobile	F a	Email
Principal	Dr. Arvind K. Shende	O:0712-2747853 R:	9822200163	0712-27478	<a href="mailto:kcnag@rediffmail.com">kcnag@rediffmail.com</a>
VicePrincipal	Dr. Pradeep B. Dahikar`	O:0712-2747853 R:	9850343734	0712-27478	<a href="mailto:pbdahikarns@rediffmail.com">pbdahikarns@rediffmail.com</a>
Steering Com	Dr. Pradeep B. Dahikar	O: 0712-2747853 R:	9850343734	0712-2747853	<a href="mailto:pbdahikarns@rediffmail.com">pbdahikarns@rediffmail.com</a>

#### 3. Status of the Institution:

Affiliated College

Constituent College

Anyother (specify)

#### 4. Type of Institution:

a. By Gender

i. For Men

ii. For Women

iii. **Co-education**

b. ByShift

i. Evening

ii. **Regular**

iii. Day

#### 5. It is a recognized minority institution?

Yes

No

If yes specify the minority status(Religious/linguistic/any other) and provide Documentary evidence.



6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

✓
✓

7. a. Date of establishment of the college: ...13/06/1983.....(dd/mm/yyyy)

b. University to which the college is affiliated / or which governs the college (If it is a constituent college)

Rashtrasant Tukadoji Maharaj Nagpur University,  
Nagpur

c. Details of UGC recognition:

UnderSection	Date,Month&Year (dd-mm-yyyy)	Remarks(Ifany)
i.2(f)	29-01-1999	--
ii.12(B)	29-01-1999	--

(Enclose the Certificate of recognition u/s2 (f) and 12(B) of the UGC Act)

➤ See Annexure I

d. Details of recognition / approval by statutory / regulatory bodies other than UGC (AICTE,NCTE,MCI,DCI,PCI,RCIetc.)

Under Section / clause	Recognition/ Approval details Institution/ Department Programme	Day,Month andYear (dd-mm-yyyy)	Validit y	Remarks (Approval No.)
i.	MBA	25-09-2007	Continue	F. MS-019(MCA)/ET/2000
ii.	MCA	03-09-2001	Continue	F. MS-019(MCA)/ET/2000

(Enclose the recognition/approval letter)

➤ See Annexure II

8. Does the affiliating university Act provide for conferment of autonomy (asrecognized by the UGC),on its affiliated colleges?

Yes  No

If yes,has the College applied for availing the autonomous status?

Yes  No

9. Is the college recognized?



a. By UGC as a College with Potential for Excellence (CPE)?

Yes  No

If yes, date of recognition:.....(dd/mm/yyyy)

b. for its performance by any other governmental agency?

Yes  No

If yes, Name of the agency.....and

Date of recognition:.....(dd/mm/yyyy)

**10. Location of the campus and area in sq. mts:**

Location*	<b>Urban</b>
Campus area in sq. mts.	<b>7405.74648</b>
Built up area in sq. mts.	<b>7533.16</b>

(\*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

**11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.**

- Auditorium/seminar complex with infrastructural facilities ✓

Auditorium / seminar Hall	Seating Capacity	Dimensions
Chanakya Hall	200	<b>150 sq.mt</b>
Aditorium	500	<b>300 sq.mt</b>
Open Air Stage (Used For Annual Social Gathering ‘Shardostava’)	1500	<b>750 sq.mt</b>

- Sports facilities

\* Playground ✓

MOU with the Nagpur Shikshan Mandal.

\* Swimming pool

\* Gymnasium ✓

- Hostel

\* Boys’hostel





- i. Number of hostels Nil
- ii. Number of in mates Nil
- iii. Facilities (mention available facilities)

## \*Girls' hostel

- i. Number of hostels 02
- ii. Number of in mates 90
- iii. Facilities (mention available facilities)

Facility	Kamla Nehru Girls' Hostel	Priyadarshini Girls' Hostel
Dining hall	01	01
T.V rooms	01	01
Solar Panels / Hot water capacity	01 / 1500 litres	02 / 500 litres each
RO filter	01	01
Water cooler	01	01
Refrigerator	01	01
Mess (Kitchen)	01	01
Telephone	01	01
Warden room	01	01
Store room	01	01
Reading room	01	01
Watchman	02	02
Parking	25 vehicles	15 vehicles
Garden	01	-
Water	Nag. Mun. Corp.	Nag. Mun. Corp
Well	01	01
Cooler	10	09

## \* Working women's hostel Nil

- i. Number of in mates
- ii. Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff (give numbers available – cadre wise) Nil

- Cafeteria – ✓
- Healthcentre-✓

✓Firstaid, ✓Inpatient, Outpatient, Emergency care facility,

Ambulance Nil.



Health centre staff-

Qualified doctor	Fulltime		Part-time	✓
Qualified Nurse	Fulltime		Part-time	Nil

-Facilities like banking, post office, book shops Nil

-Transport facilities to cater to the needs of student's and staff: **02 Buses For students**

-Animalhouse Nil

-Biological waste disposal Nil

-Generator or other facility for management / regulation of electricity and voltage

**A power generator of 125 KWA of Kirloskar make has been installed in the campus and used in the period of load shading or emergency electric power cut off by MSEB**

-Solid waste management facility Nil

-Waste water management Nil

-Water harvesting Yes

## 12. Details of programmes offered by the college (Give data for current academic year)

Sl. No.	Program Level	Name of the Programme/ Course	Duration	Entry Qualification	Medium of instruction	Sanctioned Student Strength	Number of students admitted
i)	Under-graduate	B.A	3 Yrs	HSSC	Marathi	660	495
		B.Com.	3 Yrs	HSSC	English/ Marathi	1020	857
		B.Sc.	3 Yrs	HSSC	English	1260	1225
		B.Com.(CA)	3 Yrs	HSSC	English	660	266
		B.C.A.	3 Yrs	HSSC	English	660	432
		B.B.A.	3 Yrs	HSSC	English	360	287
		B.Tech.	4 Yrs	HSSC	English	160	92
		B.Lib.& I. Sci	1 Yrs	Graduation	English	40	Nil
ii)	Post-graduate	B.Voc.	3 Yrs	HSSC	English	300	135
		M.A. Marathi	2 Yrs	Graduation	Marathi	160	39
		M.A. English	2 Yrs	Graduation	English	160	68
		M.A. Economics	2 Yrs	Graduation	Marathi	160	46
		M.A. History	2 Yrs	Graduation	Marathi	160	31
		M.A. Pol. Sci	2 Yrs	Graduation	Marathi	160	35
M.A. Sociology	2 Yrs	Graduation	Marathi	160	51		



		M.Com.	2 Yrs	Graduation	English/ Marathi	320	279
		M.Sc. Physics	2 Yrs	Graduation	English	44	43
		M.Sc. Chemistry	2 Yrs	Graduation	English	60	50
		M.Sc. Electronics	2 Yrs	Graduation	English	44	18
		M.Sc. Microbiology	2 Yrs	Graduation	English	44	42
		M.Sc. Zoology	2 Yrs	Graduation	English	44	36
		M.Sc. Botony	2 Yrs	Graduation	English	44	29
		M.Sc. Biochemistry	2 Yrs	Graduation	English	44	12
		M.Sc. Env. Sci.	2 Yrs	Graduation	English	44	34
		M.Sc. Mathematics	2 Yrs	Graduation	English	44	43
		M.Sc. Biotechnology	2 Yrs	Graduation	English	44	27
		M.Sc. Comp. Sci.	2 Yrs	Graduation	English	44	46
		M.Tech. Cos. Tech.	2 Yrs	Graduation	English	30	09
		M.Lib.& I. Sci	1 Yrs	Graduation	English	80	06
		MCA	3 Yrs	Graduation	English	180	66
		MBA	2 Yrs	Graduation	English	120	97
		MCM	2 Yrs	Graduation	English	160	24
iii)	M.Phil	--	--	--	--	--	--
iv)	Ph. D. *	Commerce And Science	6 Yrs	Post Graduate (B+) and PET qualified	As per the PG medium	60	37
v)	Certifica te course	1.Banking	1 Yrs	HSSC	English	40	40
		1. Child Care and Nutrition	1 Yrs	HSSC	English	20	17
		2.Computer hardware maintanance	1 Yrs	HSSC	English	40	23
vi)	UG Diploma	--	--	--	--	--	--
vii)	PG Diploma	PGDCS&A	1 Years	Graduation	English	60	02
		PGDCCA	1 Years	Graduation	English	60	07

13. Does the college offer self-financed Programmes?

Yes  No

If yes, how many?



14. New programmes introduced in the college during the last five years if any?

Yes	✓	No		Number	01
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15. **List the departments** :( respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

Faculty	Departments (eg. Physics, Botany, History etc.)	UG	PG	Research
Science	1. Physics	✓	✓	✓
	2. Chemistry	✓	✓	✓
	3. Electronics	✓	✓	✓
	4. Mathematics	✓	✓	✓
	5. Computer Science	✓	✓	✓
	6. Zoology	✓	✓	✓
	7. Botany	✓	✓	----
	8. Microbiology	✓	✓	----
	9. Biochemistry	✓	✓	----
	10. Bio-Technology	✓	✓	----
	11. Environmental Science	✓	✓	----
Arts	1. Languages : English and Marathi	✓	✓	----
	2. Political Science	✓	✓	----
	3. History	✓	✓	----
	4. Sociology	✓	✓	----
	5. Economics	✓	✓	----
	6. Home Economics	✓	----	----
	7. Music	✓	----	----
Commerce	1. Account & Statistics, Management, Business Economics and Commerce	✓	✓	✓
	2. Management Studies : MBA	✓	✓	----
AnyOther (Specify)	1. Library and Information Science	✓	✓	----
	2. Home Science : Cosmetic Technology	✓	✓	----

16. **Number of Programmes offered under** (Programme means a degree course like BA, BSc, MA, M. Com...)

a. Annual system

00
----

b. Semester system

34
----



c. Trimester system

**17. Number of Programmes with**

- |   |    |
|---|----|
| a. Choice Based Credit System                   | 08 |
| b. Inter/Multidisciplinary Approach             | 00 |
| c. Anyother (specify and provide details) (CBS) | 05 |

**18. Does the college offer UG and/or PG programmes in Teacher Education?**

Yes  No

If yes,

a. Year of Introduction of the programme (s).....  
(dd/mm/yyyy)  
and number of batches that completed the programme

b. NCTE recognition details (if applicable)

Notification No.:

..... Date:

.....(dd/mm/yyyy)

Validity:.....

c. Is the institution opting for assessment and accreditation of Teacher Education?

Programme Separately?

Yes  No

**19. Does the college offer UG or PG programme in Physical Education?**

Yes  No

If yes,

a. Year of Introduction of the programme (s) ..... (dd / mm /  
yyyy)  
and number of batches that completed the programme

b. NCTE recognition details (if applicable)

Notification No.: .....

Date: ..... (Dd/mm/yyyy)

Validity:.....

c. Is the institution opting for assessment and accreditation of Physical Education Programme separately?



Yes

No

20. Number of teaching and non-teaching positions in the Institution

Positions	Teaching faculty						Non-teaching staff		Technical staff	
	Professor		Associate Professor		Assistant Professor		*M	*F	*M	*F
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC/University/ State Government	01		21		201		29		23	
<i>Recruited</i>	01	--	11	05	23	35	21	04	18	02
<i>Yet to recruit</i>	Nil		05		143		04		03	
Sanctioned by the Management/ society or other authorized bodies										
<i>Recruited</i>					31	99	14	02	07	02
<i>Yet to recruit</i>					18					

\*M-Male\*F-Female

21. Qualifications of the teaching staff:

Highest qualification	Professor		Associate		Assistant		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							
Ph.D.	01		08	04	08	12	33
NET/SET					11	11	22
M.Phil.			03				03
PG				01	04	12	17
<b>Temporary teachers</b>							
Ph.D.					02		02
NET/SET					04	01	05
M.Phil.					02		02
PG					19	102	121
<b>Part-time teachers</b>							
Ph.D.							
M.Phil.							
PG							

22. Number of Visiting Faculty / Guest Faculty engaged with the College.



23. Furnish the number of the students admitted to the college during the last four academic years.

Categories	Year1 (2013-14)		Year2 (2014-15)		Year3 (2015-16)		Year4 (2016-17)	
	Male	Femal	Male	Female	Male	Femal	Male	Female
SC	182	354	218	433	216	454	221	458
ST	63	96	65	85	57	81	48	86
OBC	615	1575	741	1770	696	1794	791	1826
General	220	455	231	524	234	512	293	528
Others	160	378	226	438	236	440	252	452

24. Details on students enrollment in the college during the current academic year:

Type of students	UG	PG	M.Phil.	Ph.D.	Total
Students from the same State where the college is located	3656	974	-	36	4630
Students from other states of India	06	03	-	01	10
NRI students	00	00	-	00	00
Foreign students	00	00	-	00	00
<b>Total</b>	<b>3662</b>	<b>977</b>	<b>-</b>	<b>37</b>	<b>4676</b>

25. Drop out rate in UG and PG (average of the last two batches)

UG	18.50	PG	8.40
----	-------	----	------

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

(a)including the salary component

Rs. 20733/-

(b)excluding the salary component

Rs. 5080/-

27. Does the college offer any programme /s in distance education mode (DEP)?

Yes  No

If yes,



a) is it a registered centre for offering distance education programmes of another University

Yes

No

b) Name of the University which has granted such registration.

c) Number of programmes offered

d) Programmes carry the recognition of the Distance Education Council.

Yes

No

28. Provide Teacher-student ratio for each of the programme/course offered  
1:24

29. Is the college applying for

Accreditation:

Cycle1

Cycle2

Cycle3

Cycle4

Re-Assessment:

*(Cycle 1 refers to first accreditation and Cycle 2, Cycle 3 and Cycle 4 refers to re- accreditation)*

30. **Date of accreditation\***(applicable for Cycle 2,Cycle 3,Cycle 4 and re-assessment only)

Cycle1:03 / 05 / 2004 Accreditation Outcome/Result A Grade

Cycle2: 05 / 01 / 2013 Accreditation OutcomeResult A Grade (CGPA 3.13)

Cycle3:.....Accreditation Outcome/Result.....

*\*Copy is enclosed of accreditation certificates and peer team reports as an annexure.*

➤ **Annexure III**

31. Number of working days during the last academic year.





**32. Number of teaching days during the last academic year**

*(Teaching days means days on which lectures were engaged excluding the examination days)*

205
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**33. Date of establishment of Internal Quality Assurance Cell (IQAC)**  
IQAC 15/07/2004 (dd/mm/yyyy)**34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.**

- i. AQAR 2012-2013 on 27/12/2013 (DD/MM/YYYY)
- ii. AQAR 2013-2014 on 30/12/2014 (DD/MM/YYYY)
- iii. AQAR 2014-2015 on 26/12/2015 (DD/MM/YYYY)
- iv. AQAR 2015-2016 on 31/01/2017 (DD/MM/YYYY)

**35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)**

# **B. Criterion-wise** **Evaluative Report**



# Criterion I: Curricular Aspects



## Criterion I:

### Curricular Aspects

#### 1.1 Curriculum Design and Development

##### 1.1.1 State the vision and mission of the institution, and how it is communicated to the students, teachers, staff and other stakeholders?

###### ❖ Vision

To move towards being:

Excellent & Efficient Professionals,

Responsible & Sensible Citizens,

Kind & Compassionate Human Beings.

###### ❖ Mission

- To provide professional qualifications laced with technical skills.
- To achieve innovations in teaching–learning, research and extension.
- To develop decision making capacity and to enable the youngsters to explore their own capabilities.
- To preserve our own cultural & humanistic values with the same ease as to adopt new technological expertise.
- To produce committed and better citizens and professionals, rich in values and excellence, with a promising future.
- To infuse a competitive and fighting spirit among the students.
- To create creative, critical and analytical thinking.
- To equip and empower students with relevant knowledge and competence to face global challenges.
- To develop the personal human qualities like responsibility, sociability, self-management, self-esteem & integrity.



To make the institution a pioneer in providing excellent higher education, through value based and career oriented programs and to ensure integrated development of the students through curricular and extra curricular activities and to enable them to serve mankind. To achieve this vision, the mission has been spelt out, which reflects the institutional characteristics.

The College Mission is communicated to the students, teachers, staff and other stakeholders in the following ways:-

❖ **Students**

- Through various academic programs in which liberal education and professional learning enrich each other through an integration of knowledge and values from a variety of disciplines.
- A wide range of programs like Seminars, Workshops and Camps are initiated which conglomerate technology with tradition and provide a sound cultural as well as scientific foundation to meet the needs of the future.
- Through the College Prospectus.

❖ **Teachers and other Staff Members**

- Through the Annual Staff Meetings, the Staff members are motivated towards fulfilling the Mission of the institution.

❖ **Other Stakeholders**

- Through the LMC Meetings the college Mission is spelt out to the stakeholders.
- Various Academic and Non-Academic Programs are organised throughout the year which focus the Mission of the college.

Our **President Hon'ble Dr. Suhasini Wanjari and Hon'ble Secretary Adv. Abhijit G. Wanjarri** have constantly strived to convey the vision and mission by initiating latest job-oriented as well as professional courses in this rural-urban vicinity of South Nagpur. By inculcating and imbibing virtues and values through different cultural programmes and maintaining a highly disciplined atmosphere, the college Vision and Mission is communicated to the students, teachers, staff and stakeholders and thereby the College affirms the spiritual basis of the students for living a meaningful and purposeful life.



**1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

The college is affiliated to the R. T. M. Nagpur University, Nagpur. To make the curriculum more effective and in keeping with the objectives of the college the following steps have been taken:

1. All the faculty members submit a unit wise distribution plan of the syllabus, at the beginning of the semester to the Principal.
2. An academic calendar is prepared in advance and circulated among the teachers.
3. Every department submits an activity calendar for the session which they try and adhere to. The activities enhance and supplement the syllabus execution plan.
4. The evaluation of curriculum delivery is maintained through regular tests, unit tests, presentations
5. The IQAC conducts a meeting with all faculty members at the beginning and end of every semester to assess the progress made by the institution.
6. Time tables are prepared well in advance and made available before the commencement of each semester.
7. Remedial classes and tutorials are conducted for the weaker students.
8. Through the **Suggestion Box** the Principal is made aware of problems.
9. The reinforcement of Co-curricular activities is done through
  - Quiz competitions
  - Essay Writing Competitions
  - Certificate Courses in various disciplines
  - Group Discussion forums
  - Class presentations on various topics
  - Peer Teaching



**1.1.3 What type of support (procedural and practical) do the teachers receive (from the university and/or institution) for effectively translating the curriculum and improving teaching practices?**

**Support from the University:**

1. Nominating teachers in Board of Studies.
2. The University organizes workshops and seminars through the Core department.
3. Syllabus orientation programmes are organized whenever there is revision of curriculum. The teachers are acquainted with the syllabus, question paper pattern, practical examination pattern (where required).
4. The University sends notices and circulars to the institution from time to time so that they are updated with the latest developments in curriculum.
5. Teachers have access to the University library.
6. The University website is also updated frequently, which gives instant information on curriculum and examinations.

**Support from the Institution:**

1. Teachers are encouraged to attend seminars and workshops related to their subjects.
2. Timely deputation of teachers for Orientation, Refresher and Short term courses.
3. The College Departments host Conferences and Workshops for syllabus orientation and implementation and seminars on issues related to their subjects.
4. The use of ICT helps to integrate teaching with technology. There are LCD projectors available in the digital class rooms. Computers with internet connection are available in the computer laboratories.
5. The Moodle server encourages teachers to put up notes and articles related to the subject. The college also has a multimedia library.
6. The language laboratory helps teachers and students to better comprehend the English language and the nuances of pronunciation.



7. The library also subscribes to journals and periodicals recommended by the staff members. E-Journals: five journals subscribed in print + online version and E-books and digital database are available through INFLIBNET N-list

**1.1.4. Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the curriculum provided by the affiliating university or other statutory agency.**

- The Institution constantly strives to upgrade its infrastructure to meet the challenges of a technology driven environment. Apart from providing technological solutions, teachers are given a free access to internet and search for latest developments to meet the demands of the curriculum.
- Preparation of teaching plan by the teachers and verification of the same by the faculty.
- Feedback from students on teaching at the end of every term for all the courses is collected, analyzed and communicated by IQAC.
- Continuous assessment of students and analysis of the results for every term.
- Promotion of teachers' training through in-house training programmes, workshops conducted by University
- Book Bank facility is available for the financially backward students
- Guest lectures are conducted to create an interface between the students and the industry.
- Industrial visits are organized for the students to understand the implementation of theory in the real world.
- Certificate courses are organized to supplement course work. Certificate Courses have been conducted by the departments of Mathematics, Chemistry, Bio technology, English, etc.





- The Institution conducts National Seminars every year for staff advancement. The inter-disciplinary seminars help teachers to keep abreast of happenings in other fields.
- Students are asked to do projects on topics related to the syllabus. The Advanced learners are given topics from outside the curriculum to inculcate the habit of research. Students have participated in the University Research initiative AVISHKAAR.

**1.1.5. How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?**

The institute networks and interacts with beneficiaries in the following ways:-

**Industry**

- i. Organizing study tours and industrial visits.
- ii. Arranges campus interviews
- iii. Organizing Entrepreneurship/Career Development workshops
- iv. Expert/Guest lectures on recent developments are organized by all the departments.
- v. Collaborating with the Industry for special training programs.
- vi. Through Industry Institute Interaction Cell various internship programs as well as industrial projects are carried out.

**Research/Academic Bodies**

- i. Several departments of Science are doing collaborative research with National Research bodies such as NEERI (National Environmental & Engineering Research Institute), CICR (Central Institute of Cotton Research) etc.
- ii. Use of academic facilities like library, access to various e-resources etc. done with other academic institutions.
- iii. Expert/Guest talks of Directors and other senior researchers from these Academic or research bodies are organized.



- iv. Collaborative Seminars/Conferences/Workshops, based on the curriculum are jointly organized, with these Research/Academic Bodies.
- v. Study tours to these research institutes and laboratories enhance experiential learning.

### University

- i. The University aids in organizing Syllabus Orientation Workshops whenever the need arises.
- ii. Various departments of the University collaborate with the departments of the college to conduct Seminars/Conferences/Workshops based on the curriculum.
- iii. Access to University library aids in getting necessary resources for the implementation of the curriculum.
- iv. Visits to University departmental laboratories gives better exposure to the students for effective learning.

#### 1.1.6 What are the contributions of the institution and/ or its staff members to the development of the curriculum by the University? (number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

The figurative details of major University work done is as under:-

Number of Teachers	Chairpersons / Members of BOS	Question Paper Moderation	Question Paper Setting
<b>41</b>	<b>11</b>	<b>45</b>	<b>109</b>

- The college has a well-established mechanism to obtain feedback from its students. Students are provided with a feedback forms based on curriculum, which encompasses almost all aspects of curriculum design and execution.
- Specific suggestions from the feedback of stakeholders are communicated to University through BOS members. The teachers on the Board of Studies working either as Chairman and Member, along with the sub-committee members communicate the suggestions to University.



- Interaction is done with Alumni of the department during alumni meet and through e-mail & telephonic conversation. Alumni feedback is also collected. Alumni are invited as guests at technical events and Annual gathering.
- The outcome of feedback is discussed in the departments and the vital part of the same is communicated to University so as to facilitate curriculum enrichment and introducing changes/new programs etc.

**1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.**

- The institution runs several Certificate as well as Diploma Courses, either funded or self-financed. Some of the **UGC aided courses** run by the college in the last 5 years are:-
  - i. Post Graduate Diploma in Human Rights
  - ii. Jawaharlal Nehru
  - iii. Post Graduate Diploma in Gandhian Thought
  - iv. B. Voc
- Some **Career Oriented Programs** funded by the UGC and run by the respective departments were also undertaken:-
  - i. 1 year Certificate Course in Child Care & Nutrition.
  - ii. 1 year Certificate Course in Computer Hardware and Maintenance.
  - iii. 1 year Certificate Course in Banking.
- Besides several **Certificate Courses** have been designed and executed by the departments to instill skill based learning among the students. They are as follows:-
  - i. Certificate course in Mathematical Reasoning was conducted by the department of Mathematics.
  - ii. Certificate course in Basic Technique in Plant Tissue Culture was conducted by the department of Biotechnology.



- iii. Certificate course in Research Methodology & Bioinformatics was conducted by the department of Biotechnology and Chemistry.
- iv. Certificate course in Motor Winding and Domestic Appliances was conducted by the department of Physics.
- v. Certificate course in Makeup Techniques was conducted by the department of Cosmetic Technology.
- vi. Certificate Course in Shakespearean Studies

**1.1.8 How does institution analyze/ ensure that the stated objectives of curriculum are achieved in the course of implementation?**

Monitoring of the execution and implementation of achieving the Objectives of the Curriculum are done in the following ways:-

- The teaching plan covering the pedagogy and the syllabus is submitted by the teachers before the commencement of the semester.
- Teachers adhere to the same and at the end of every month signatures of the Principal are taken on the daily diaries and monthly teaching plans.
- Student Feedback is taken for every subject taught so that improvements can be made.
- The results are analyzed to understand the overall performance of the students.
- Academic Audit.



## 1.2 Academic Flexibility

### 1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

The goals and objectives of organizing these certificate courses are given in the table below:-

S r N .	Name of Department	Name of Certificate Course	Duratio n	Objectives(Mention at least two points)
1.	Mathematics	Certificate Course in Mathematical Reasoning	15 days	1. For competitive Examinations 2. For mathematical practice
2.	Cosmetic Technology	Certificate Course in Make-up Technology	1 month	1. To study different make-ups 2. To develop entrepreneurship
3.	Botany	Certificate course on Methods & Techniques	1 month	1. For material presentation 2. Different types slide presentation in botany
4.	Electronics	Certificate course in Computer Hardware Maintenance (course conducted from 2013 to till this session)	1 year	1. Computer is now general purpose device, it should be known to everybody about its Hardware 2. Motivation towards entrepreneurship
		Microcontroller based embedded system design (2013)	2 Month	
		PCB Designing (2014)	2 Month	
5.	Biotechnology & Chemistry	Certificate course on Bioinformatics, Chemo informatics, Biostatistic(2016-17)		1. Bioinformatics subject is included in all post graduate life sciences courses 2. Participants will aware the related subject 3. Course is useful for M. Sc. Project related work
6.	Commerce	Certificate Course in Banking		1. To give knowledge to the students about banking & its functions 2. To study the accounting with computer
7.	Home-Economics	Certificate course in Child care and Nutrition		1. To study of child care 2. For competitive Examinations



**1.2.2 Does the institution offer programmes that facilitate twinning/dual degree? If 'yes', give details.**

As the institution is affiliated to the RTM Nagpur University, Nagpur, it has to follow all its rules and regulations. As dual degree is not the part of University program, the college does not offer twinning/ dual degree.

**1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:**

- **Range of Core / Elective options offered by the University and those opted by the college**
- **Choice Based Credit System and range of subject options**
- **Courses offered in modular form**
- **Credit transfer and accumulation facility**
- **Lateral and vertical mobility within and across programmes and courses**
- **Enrichment courses**

**❖ Core and Elective Options**

- All the UG & PG courses have core option as well as elective options among the several subjects/papers.
- At UG courses, there is option to choose any two basic languages for study.
- As a means to provide dual degree – diploma/certificate courses, number of Career Oriented Programs (UGC sponsored) have been offered.
- Certificate Programs (e.g.Diploma in Computer Hardware) are also offered as enrichment courses.
- Short term Workshops and Programs are also conducted to enhance skills and knowledge.



**❖ Choice Based Credit System and range of subject options**

Details are attached in **Annexure IV**

**❖ Courses offered in modular form**

The college offers several certificate courses in modular form which are skill based. All the details regarding names of these courses carried out by different departments are given in 1.1.7.

**❖ Credit transfer and accumulation facility**

Such facility is not provided by the affiliating University to the colleges.

**• Lateral and vertical mobility within and across programmes and courses**

The eligibility criteria fixed for the PG courses is very flexible.

Examples:

- A Science graduate is eligible for P.G. course in any of the 3 optional subject of UG
- A Commerce graduate is eligible for P.G. course in Commerce.
- An Arts graduate is eligible for P.G. course in any of the 3 optional subject of UG
- Any graduate can pursue M.B.A., M.Lib.Sc.
- Any graduate who has studied Maths at +2 level is eligible for M.C.A.
- Any graduate is eligible for PGDCCA or MCM
- A Science Graduate with Maths can pursue PGDCS
- Any graduate who has studied life science is eligible for P.G. Microbiology, Biotechnology, Biochemistry, and Environmental Science.

**• Enrichment Courses**

Courses in humanities and social sciences are incorporated to enrich the students in societal and humanitarian values. Some of the other UGC sponsored courses like courses on thinkers such as Jawaharlal Nehru, course on Gandhian Thought and Human Rights enrich the students in moral values. These are aimed at promoting value education and citizenship roles.



**1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

The institution runs a number of self –financing courses both at UG and PG level.

**UG level**

**Arts faculty**

- B.A. (1 Section)

**Commerce faculty**

- B.Com (Computer Application)
- BBA (Bachelor in Business Administration)
- B.Com (English Medium)

**Science faculty**

- BCA (Bachelor of Computer Application)
- B.Sc- Bio-Technology, Bio-Chemistry, Microbiology, Botany,
- Zoology, Environmental Science

**Home Science Faculty**

- B.Tech in Cosmetic Technology

**PG level**

**Arts faculty**

- M.A. in English, Marathi, History, Sociology, Political Science, Economics

**Commerce faculty**

- M.com, MCM, MBA and PGDCCA

**Science faculty**

- M.Sc. in Computer Science, Electronics, Physics, Mathematics, Chemistry, Bio-Technology, Bio-Chemistry, Microbiology, Botany, Zoology, Environmental Science, PGDCS. MCA

**Home Science Faculty**





- M.Tech in Cosmetic Technology

### Any other

- B.Lib., M.Lib.

The Self-Financed courses do not differ from the other granted programs as these courses are run with the permission of the University and State govt. The same procedure for admission is followed by the college, and students are admitted on the basis of their merit. The curriculum followed is the one which is prepared by the University and implemented by the institution. The teacher's qualification and salary is as per the University norms.

### Fee structure

Sl.No.	Programme	Fee charged in Rs.
1	B.A.	2571/-
2	B.Com.(Marathi/English)	2571/-8779/-
3	B.Sc. (Maths/Comp.sci.)	3369/-
4	B.Sc. (Bio-Technology)	18395/-
5	B.Sc. (Biology)	12395/-
6	B.Com. (CA)	19835/-
7	B.C.A.	20869/-
8	B.B.A.	14169/-
9	B.Tech.	15378/-
10	M.A. Marathi	4860/-
11	M.A. English	4860/-
12	M.A. Economics	4860/-
13	M.A. History	4860/-
14	M.A. Political Science	4860/-
15	M.A. Sociology	4860/-
16	M.Com.(Marathi/English)	4860/-/10729/-
17	M.Sc. Physics	18572/-
18	M.Sc. Chemistry	30333/-
19	M.Sc. Electronics	14072/-
20	M.Sc. Microbiology	30333/-
21	M.Sc. Zoology	24272/-
22	M.Sc. Botony	24272/-
23	M.Sc. Biochemistry	30333/-
24	M.Sc. Environmental Science	18772/-
25	M.Sc. Mathematics	19516/-
26	M.Sc. Biotechnology	35573/-
27	M.Sc. Computer Science	30333/-
28	M.Tech. Cosmetic Technology	32542/-
29	M.LISc	10659/-
30	MCA	61800/-
31	MBA	61800/-



32	MCM	12214/-
33	PGDCS&A	27891/-
34	PGDCCA	12214/-
35	B.LISc	10714/-

**1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If ‘yes’ provide details of such programme and the beneficiaries.**

The college runs several job oriented and skill oriented programs in addition to the university curricula. Details are given in **1.2.1**

**1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If ‘yes’, how does the institution take advantage of such provision for the benefit of students?**

Certificate courses can be done under MOOCs. The college encourages students to do distant Certificate Courses through Massive Open Online Courses. The students access this through the E-Zone in the Library.

### **1.3 Curriculum Enrichment**

**1.3.1 Describe the efforts made by the institution to supplement the University’s Curriculum to ensure that the academic programmes and Institution’s goals and objectives are integrated?**

The college was started with the objective of imparting quality and value based education to the economically backward students of South Nagpur. Thereby the standard curricula designed by the University is followed, modified, and adopted to cater to the needs of the society. All round development is enhanced in line with its goals and objectives through a variety of measures adopted from time to time.

- Experts from the industry are invited for guest lectures by all departments to supplement course work.
- Advanced training programmes are organized to improve employability skills



of the students.

- Students are encouraged to attend seminars and workshops as well as participate in role play, quizzes, book reviews, etc.
- Several UGC aided Career Oriented Programs are run by the institution to enable youngsters of the region to find suitable jobs.
- Various job oriented and skill oriented programs are run at departmental level to ensure that the gap between university curriculum and industry requirement is met.
- Selected PG subjects have project work as part of curriculum alongwith compulsory field visits, industrial visits, visits to community NGOs, PRIs, GOs and so on.
- Through project reports, assignments, case studies, survey reports, field trip reports and practical records, experiential learning is ensured.
- Celebration of important global days are done to ensure that the relevance of these occasions remain intact in the minds of the students.
- Expert talks on current burning issues are organised to enable students to remain updated on current issues.
- Instilling rich values through the practice of recital of Saraswati Stawan or the lighting of the traditional lamp at the beginning of every program.
- Value orientation and enriching of the students through the performance of puja and the enchanting of mantras at the time of 'sthapna' during the annual college gathering "Shri Shardotsava"
- Values of selfless service are practiced by implementing the motto of NSS, "Not me but You"
- Activities of NSS, NCC such as lectures on abolition of superstitions, deaddiction and other extension and developmental activities also ensure value based education and social citizenship roles.



**1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?**

As already mentioned, to enhance the experiences of the students w.r.t. the employment market, several short term certificate courses have been undertaken at departmental level apart from the Career Oriented Programs of the UGC. Besides the following efforts have been taken:

- An **Industry Institute Interaction Cell** looks after the visits of students to industries, visits of experts to institutions and their interaction with the students.
- Introduction of vocational courses funded by UGC.
- Making the students globally competitive by offering them Soft skills and Personality Development training which involves, Goal Setting, SWOC Analysis, Resume writing and Interview Skills from time to time.
- Arranging Campus Interviews for the students and encouraging them to appear for off-campus interviews.
- Encouraging students to appear for competitive exams by offering guidance talks through Training & Placement Division.

**1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?**

**Environment and Climate Change**

- Environment Day is observed by the college. Environmental Education sessions are held to create awareness about climate change.

**Gender Sensitization Programmes**

- The Women's Development Cell has conducted various programmes to counsel students on gender issues. Many programmes were undertaken in the past five years.



### **Inculcation of Human Rights through N.S.S. (National Service Scheme)**

- The College has a very active and vibrant NSS unit. They go on a 7 day camp every year and learn to live within a rural scenario. Besides various activities are held throughout the year which focus on human rights and other humanitarian issues.
- A UGC sponsored course on Human Rights is also undertaken in the college.

### **ICT**

- Provision for ICT related and oriented courses – MCA, MCM, MBA, PGDCA, PGDCS, BCA, BCCA, MLISc, BLISc, M.Sc. (Computer Science and Electronics) alongwith sensitization and awareness program for other disciplines.

#### **1.3.4 What are the various value-added courses/enrichment programmes offered to ensure holistic development of students?**

- **Moral and ethical values**

The college strives to infuse the moral and ethical values among its students by conducting the following related courses:-

1. Under **Epoch Making Social Thinkers** study centre scheme of the UGC, study centers of **Mahatma Gandhi and Pt. Jawaharlal Nehru** are being run, which provide value based education to the students.
2. The college also runs a **PG Diploma in Human Rights** which is also beneficial for the students from the perspective of instilling value based education.

- **Employability and life skills and better career options**

Various training programs are organized by the Training and Placement Division of the College to ensure that the gap between the academia and industry is bridged. During the last 5 yrs training programs have been conducted by various academic, industrial and social groups. Some of the prominent ones are as under:-

1. Zonal centre for Soft Skills training program by IIM Kolkata.
2. Corporate industrial training by TCS, Mumbai.
3. Employability training by Rotary Club, Nagpur.



- **Community orientation**

Several socially inclined outreach programs are organized in collaboration with different NGOs. Some of the community oriented activities are as given below:-

### **1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

The college is affiliated to the Rashtrasant tukdoji Maharaj Nagpur University, Nagpur and hence it does not directly design the syllabus. But most of the senior faculty members are Chairpersons or members of the Board of Studies and they actively participate in the planning and structuring of the syllabus.

The College follows a 3 step approach:-

#### **❖ First Step – Analysis of the current status, feedback and review.**

- Feedback on existing curriculum of the University its utility, performance and relevance from parents, alumni, employers and peers is obtained.
- Formal feedback forms filled by the students.
- Assessing the needs of the students, especially from the employability and entrepreneurship point of view is obtained through discussion forum.

#### **❖ Second Step – Trend Analysis and Thrust Area identification**

- Trend analysis - Consideration of possible projections in the subject areas of current relevance.
- Evaluation of availability of experts, expertise, training tools and techniques.
- Review on Affordability and Utility as well as Feasibility.
- Involvement of the senior faculty of the institution.
- Drafting curricular suggestions from stake holders' feedback and then proposing them by the BOS members in front of Boards of Studies.
- Draft approval by the University.

#### **❖ Third Step – Approval and implementation**

- Approval of curriculum by BOS and Academic Council.



- Approval by the Management Council and the Vice Chancellor, intimated through the notification by the Registrar of the University.
- Publicity of new Curriculum, through circulars, notifications and awareness workshops.
- Implementation from the subsequent Academic Year.
- Midterm review – annually at the meetings of BOS
- Total review/revision of Syllabus once in 3 years.

### **1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?**

Institution takes sincere efforts in monitoring and evaluating the quality of its enrichment programmes. As mentioned above the feedback from various stakeholders on curriculum is obtained and analyzed. Besides all the enrichment programs are evaluated with the help of examinations conducted at the end of every term. The outcomes are taken into account while implementing the curriculum in next academic year. The college runs the following UGC sponsored enrichment programs:-

1. Under **Epoch Making Social Thinkers** study centre scheme of the **UGC**, study centers of **Mahatma Gandhi and Pt. Jawaharlal Nehru** are being run, which provide value based education to the students.
2. The college also runs a **PG Diploma in Human Rights** which is also beneficial for the students from the perspective of instilling value based education.

The test conducted at the end of program helps in understanding and evaluating the benefits of the program.



## 1.4 Feedback System

### 1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

- Various experienced teachers contribute to update the syllabi so as to incorporate the suggestions received from the stakeholders.
- Faculty members attend syllabus revision orientation programmes/workshops.
- Some faculty members of the institution are either chairpersons or BOS members. The college forwards the suggestions regarding curriculum to university.
- Workshops on Syllabus reframing have been arranged at the college and teachers have participated in syllabus revision workshops organized in other colleges as well.
- The above mentioned contributors work in the light of the stakeholders' feedback.

### 1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

- Yes, there is a fixed curriculum based proforma which is filled by the students.

Details are mentioned in 1.1.6

### 1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses/programmes?)

Bachelor of Vocational Course was started during the academic session 2014-2015 in the following two disciplines:





- Retail Management
- Software Development

The rationale behind the introduction of these two courses was considering the fact that there is a tremendous boom in the retail market. The growth in the number of malls in every city would provide these students with jobs and career related to their study.



# **Criterion II:**

## **TEACHING-LEARNING**

### **AND EVALUATION**



## CRITERION II

### TEACHING-LEARNING AND EVALUATION

#### 2.1 Student Enrolment and Profile

##### 2.1.1 How does the college ensure publicity and transparency in the admission process?

The college ensures wide publicity in the admission process through the College website, advertisements in newspapers and the prospectus. The notices regarding admission processes are displayed on the notice boards.

The admission is on the basis of first come first with minimum cut off percentage. The admission in Science and Commerce stream completed within few days. We follow the government norms in the admission process. Our college is the only college in this region where the classes start write from the opening day of the new academic session.

Information regarding programmes offered, endowments, scholarships/free-ships, hostel accommodation and other student support facilities are provided in the college prospectus.

##### 2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

The admission process for I<sup>st</sup> year/ Sem I of U. G. and P. G. courses are conducted on the basis of first come first with minimum cut off percentage following the university and government rules. The score of the students in the +2 and under graduation examinations is considered for their admission in the first year of U. G. and P. G. courses respectively. All the eligible students are admitted in the second and third year of degree course. The faculty -wise admission committees are formed every year, which work under the supervision of the Principal. The college publishes



the prospectus containing the application form and details regarding the rules and regulations of the admission process, different courses, activities etc. every year. If there are any grievances regarding admissions, the Grievance Committee looks after it. Admissions to MCA and MBA are done through the common entrance test (CET) conducted by Government of Maharashtra.

**2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.**

Maximum and minimum percentage of marks considered for admission during the current academic year 2016-17 are-

Courses	Class	Kamla Nehru Mv.		
		Max%	Min%	
<b>U. G. Courses</b>	B. A. - I	82.15	38.46	
	B. Com.- I	93.85	43.69	
	B. Sc. – I	88.4	42.83	
	B. B. A. – I	85.38	42.77	
	B. C. C. A. - I	82.31	38.0	
	B. C. A. - I	78.77	43.69	
	B. Sc. I (Bio)	78.0	42.62	
	B. Sc. I (Biotech)	77.85	43.08	
	B. Tech. (Cosm.Tech.)	72.15	46.62	
	B. Lib.	--	--	
	<b>P. G. Courses</b>	M.Sc. I (Phy)	63.96	47.48
		M.Sc. I (Chem)	75.88	45.33
		M.Sc. I (Electro.)	57.93	42.37
M.Sc. I (Zoo)		64.67	47.48	
M.Sc. I (Bot)		66.96	47.40	
M.Sc. I (Biotech)		71.35	47.6	
M.Sc. I (Micro)		71.54	46.44	
M.Sc. I (Biochem)		64.26	47.48	
M.Sc. I (Env. Sci.)		74.50	48.59	
M.Sc. I (Maths)		85.37	42.37	
M.Sc. I (Comp.Sci.)		69.33	42.89	
M. A. I (Eng.)		69.11	38.07	
M. A. I (Mar.)		63.11	39.00	
M. A. I (Eco.)		72.25	38.67	
M. A. I (Socio.)		60.00	38.07	
M. A. I (History)	79.25	41.00		



	M. A. I (Pol. Sci.)	72.25	38.47
	M. Lib.	67.12	59
	M.C.A.	70.08	46.51
	M.B.A.	86.19	45.30
	M.C.M.	77.20	42.20
	M. Tech. (Cosmetic Tech)	69.57	60.45
<b>P. G. Diploma Courses</b>	PGDCSA	88.15	69.14
	PGDCCA	60.5	51.74

For Ph. D. Course the students who have passed University conducted PET exams are considered through interview by RAC of the college.

For B. Voc. (Software Development and Retail Management) programmes +2 exams passed or SSC+2 yr or ITI completed candidates are eligible for admission.

When maximum and minimum cut off percentage at entry level compared with other nearby colleges of the affiliating university, more or less the same trend is observed in other colleges as well.

**2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If “yes” what is the outcome of such an effort and how has it contributed to the improvement of the process?**

Yes. There is a mechanism to review the admission process and student profile annually.

- At the beginning of academic session, the principal holds a meeting with the heads of all the departments and members of the admission committee and seeks advices from individuals about the required strength of students to be admitted at entry level. Proper proportion of group-wise admission is maintained as per the requirement of the college. The norms of reservation are strictly followed.
- The college adopts inclusive approach to accommodate students from rural and urban areas belonging to all strata of the society. To review the admission process, class-wise admission committees are formed every year, which work under the supervision of the Principal. These committees prepare the detailed profile of students. This process makes the admission process transparent and gives justice to all the students from different categories. Because of this, the entire process



becomes very easy for the students to seek admission as the admission committee members guide the students to fill up the admission forms properly and selects the subjects/papers. The institution has achieved phenomenal success by going through this process as the process helps to save time and energy.

- When the admission process comes to an end, the admission committee prepares a complete report which contains information regarding number of candidates admitted to individual programme, ratio of boys and girls, percentage of students from different categories (reserved category, sports, physically challenged, differently-abled, ex-serviceman, other state etc.). The report is submitted to the Principal for his review and suggestion.
- Teacher Mentor scheme is introduced in the college with a view to maintain rapport between teachers and student. A batch of students is allotted to a teacher mentor who prepares the profile of each pupil, acts as a guardian and helps him in his academic, personal and family problems.

The outcome of the process is that

- Admission process becomes hassle-free, transparent and prompt.
- It helps in the choice of subject combination and balancing the enrolment of students in different subjects.

### **2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion.**

\* SC/ST

\* OBC

\* Women

\* Differently-abled

\* Economically weaker sections

\* Minority community

\* Any other

Category	Percentage of reservation
Scheduled Caste (SC)	13 %
Scheduled Tribe (ST)	07 %
Vimukta Jati (VJ)	03 %
Nomadic Tribe (NT-A)	2.5 %
Nomadic Tribe (NT-B)	3.5 %



Nomadic Tribe (NT-C)	02 %
Other Backward Class (OBC)	19 %
Special Backward Class (SBC)	02 %
General	52 %

The different sections of the society like SC/ST/NT/VJ/OBC/Women/Economically weaker/ differently-able/ Minority etc. are duly represented in admission process as the college strictly follows the reservation policy of the Government of Maharashtra which is as follows:

With a view to increase access and to provide equal opportunities to all sections of society, the college provides reservations and relaxation in qualifications for admission for SC/ST/OBC/differently abled as per the policy of the Government of Maharashtra.

At the time of admission, the economically weaker students are admitted in the college under EBC scheme on the basis of annual income of the parents. Scholarships are given to all eligible SC/ST, NT, OBC, and minority students. If the reserved category students are not available, the vacant seats are filled adhering to the state government rules. The table on the next page shows the student profile, thus our institute fully adheres the national commitment to diversity and inclusion into reality.



Break-up of the students for the year 2016-17

Sr. No.	Classes	SC		ST		VJ-A		NT		OBC		SBC		Minor		Open		Total		Total
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>UG</b>																				
1	B.A. -I	20	30	5	8	0	1	7	10	39	84	10	20	0	0	9	22	90	175	265
2	B.A. -II	12	18	1	5	0	0	1	5	19	45	2	6	0	0	4	8	39	87	126
3	B.A.-III	4	12	4	5	0	0	3	9	16	35	2	6	0	0	1	9	30	76	106
4	B.Com.I	6	21	4	2	1	0	4	8	49	75	17	40	0	0	11	10	92	156	248
5	B.Com.II	4	8	0	2	0	1	2	4	16	52	19	24	0	0	0	6	41	97	138
6	B. Com. III	3	10	1	3	0	0	2	3	18	34	12	12	0	0	2	7	38	69	107
7	B.Com.I NG	4	9	1	2	0	0	1	3	19	50	6	13	0	0	17	19	48	96	144
8	B.Com.II NG	10	8	0	3	0	0	1	7	23	41	4	12	0	0	3	17	41	88	129
9	B.Com.III NG	1	7	0	1	1	1	2	3	14	35	3	7	0	0	4	16	25	70	95
10	B.Sc.-I	7	7	2	1	0	0	2	2	27	57	12	6	0	0	14	13	64	86	150
11	B.Sc.-II	0	9	5	2	1	1	2	4	28	56	3	5	0	0	9	10	48	87	135
12	B.Sc.-III	2	5	1	1	0	0	2	0	15	29	1	3	0	0	7	8	28	46	74
13	B.Sc.-I BT	4	6	1	3	1	0	4	3	24	77	2	6	0	0	3	21	39	116	155
14	B.Sc.-II BT	1	15	1	2	0	0	1	5	12	52	3	4	0	0	4	9	22	87	109
15	B.Sc.-III BT	3	11	0	3	0	0	1	2	15	46	1	3	0	0	2	7	22	72	94
16	B.Sc.-I Bio	7	29	2	1	0	0	3	9	25	114	5	10	0	0	10	16	52	179	231
17	B.Sc.-II Bio	5	25	1	3	0	1	0	4	11	106	7	6	0	0	2	14	26	159	185
18	B.Sc.-III Bio	2	8	0	3	0	1	1	2	5	37	2	1	0	0	3	16	13	68	81
19	B.C.A.-I	18	24	1	1	0	0	2	3	74	33	10	4	0	0	32	18	137	83	220
20	B.C.A.-II	8	2	4	3	0	0	2	4	34	28	7	5	0	0	13	13	68	55	123
21	B.C.A.-III	3	2	0	2	0	0	1	3	15	22	1	5	0	0	11	14	31	48	79
22	B.B.A.-I	13	9	1	3	0	0	3	3	39	21	5	6	0	0	16	25	77	67	144
23	B.B.A.-II	2	8	0	0	0	0	2	2	13	22	6	5	0	0	7	9	30	46	76
24	B.B.A.-III	1	8	0	1	0	0	2	1	13	22	3	5	0	0	5	8	24	45	69
25	BCCA-I	7	7	1	3	0	0	0	1	13	25	1	2	0	0	8	7	30	45	75





26	BCCA-II	4	12	1	2	0	0	1	3	9	21	0	7	0	0	5	10	20	55	75
27	BCCA-III	10	10	0	1	0	0	3	1	24	33	6	10	0	0	10	4	53	59	112
28	B. Tech. I	3	2	0	0	0	0	1	1	4	19	0	3	0	0	1	6	9	31	40
29	B. Tech. II	1	3	0	1	0	0	0	1	2	19	1	0	0	0	0	3	4	27	31
30	B. Tech. III	0	1	0	0	0	0	0	0	0	7	0	1	0	0	1	4	1	13	14
31	B. Tech. IV	0	1	0	0	0	0	1	0	0	5	0	0	0	0	0	4	1	10	11
32	B. Voc.I SD	7	2	1	2	0	0	3	3	7	17	1	0	0	0	5	2	24	26	50
33	B. Voc.II SD	0	6	0	1	0	0	0	0	0	7	2	4	0	0	4	1	6	19	25
34	B. Voc.III SD	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	3	0	3
35	B. Voc.I SD	6	2	2	0	1	0	4	2	12	6	2	1	0	0	7	5	34	16	50
36	B. Voc.II SD	1	0	0	0	0	0	0	0	3	1	0	0	0	0	0	1	4	2	6
37	B. Voc.III SD	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
<b>PG</b>																				
38	PGDCCA	0	1	0	0	0	0	1	1	0	4	0	0	0	0	0	0	1	6	7
39	PGDCSA	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	2	2
40	M.A.I Eng.	1	2	0	3	0	0	0	2	5	12	0	0	0	0	7	18	13	37	50
41	M.A.II Fng	1	0	0	0	0	1	0	1	2	9	0	1	0	0	0	3	3	15	18
42	M.A.I Mar.	0	3	0	2	0	0	0	1	0	5	0	1	0	0	1	5	1	17	18
43	M.A.II Mar	0	3	0	0	0	0	0	1	1	13	0	1	0	0	0	2	1	20	21
44	M.A.I Eco.	4	2	0	0	0	0	0	0	0	18	0	1	0	0	1	2	5	23	28
45	M.A.II Eco	0	3	0	1	0	0	0	0	1	10	0	0	0	0	0	3	1	17	18
46	M.A.I His	1	2	1	0	0	0	0	1	1	9	0	1	0	0	1	3	4	16	20
47	M.A.II His	1	5	0	0	0	0	0	1	1	3	0	0	0	0	0	0	2	9	11
48	M.A.I Pol	0	5	0	2	0	0	0	1	11	3	0	0	0	0	0	4	11	15	26
49	M.A.II Pol	0	3	0	0	0	1	0	1	1	3	0	1	0	0	0	0	1	9	10
50	M.A.I Soc.	2	5	0	0	0	0	0	2	0	13	0	1	0	0	0	2	2	23	25
51	M.A.II Soc	1	0	0	0	0	1	0	0	5	15	0	2	0	0	0	2	6	20	26
52	M.Lib.I	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	2
53	M.Lib.II	0	0	0	0	0	0	0	1	0	2	0	1	0	0	0	0	0	4	4
54	M.Com. I	5	6	1	1	0	0	3	5	35	67	4	10	0	0	6	16	54	105	159



55	M.Com. II	3	6	3	1	0	0	0	5	19	54	4	3	0	0	5	17	34	86	120
56	MSc I Phy	0	2	0	0	0	0	0	0	4	13	0	1	0	0	2	0	6	16	22
57	MSc II Phy	0	3	0	0	0	0	0	0	2	11	0	2	0	0	0	3	2	19	21
58	MSc I Chem	1	2	0	0	0	0	0	1	2	19	0	2	0	0	0	3	3	27	30
59	MSc I I Chem	2	2	0	0	0	0	1	0	2	8	0	1	0	0	1	3	6	14	20
60	M.Sc.I Elec	0	1	0	1	0	0	0	0	1	6	0	1	0	0	0	0	1	9	10
61	M.Sc.II Elec	0	1	0	0	0	0	0	1	1	3	0	0	0	0	0	2	1	7	8
62	M.Sc I Math	1	1	0	0	0	0	0	0	3	10	0	0	0	0	3	5	7	16	23
63	M.Sc.II Math	1	2	0	0	0	0	0	0	2	7	0	1	0	0	1	6	4	16	20
64	M.Sc I Copm Sci.	1	1	0	0	0	0	0	0	1	13	0	0	0	0	1	5	3	19	22
65	M.Sc.II Comp Sci.	2	3	0	0	0	0	0	1	2	10	0	0	0	0	1	5	5	19	24
66	M.Sc I Bot	1	4	0	0	1	0	0	1	0	11	0	0	0	0	1	3	3	19	22
67	M.Sc.II Bot	0	0	1	1	0	1	0	0	2	2	0	0	0	0	0	0	3	4	7
68	M.Sc I Zoo	1	2	0	0	0	0	0	1	3	11	0	0	0	0	0	4	4	18	22
69	M.Sc.II Zoo	1	0	0	1	0	0	0	0	1	8	0	1	0	0	0	2	2	12	14
70	M.Sc I Biote	0	3	1	0	0	0	0	1	3	12	0	0	0	0	1	1	5	17	22
71	M.Sc.II Biote	0	0	0	0	0	0	0	2	0	1	0	2	0	0	0	0	0	5	5
72	M.Sc I Micro	0	4	0	0	0	0	0	2	1	8	0	2	0	0	1	4	2	20	22
73	M.Sc II Micro	0	0	0	0	0	0	0	1	0	17	0	0	0	0	0	2	0	20	20
74	M.Sc.I Bioch	1	3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	4	5
75	M.Sc II Bioch	0	1	0	0	0	0	0	0	1	3	0	1	0	0	0	1	1	6	7
76	M.Sc.I Envi. Sci	1	4	0	1	0	0	1	0	6	5	0	0	0	0	2	2	10	12	22
77	M.Sc II Envi. Sci	0	1	0	0	0	0	0	0	2	8	0	0	0	0	0	1	2	10	12
78	M.C.M. I	0	1	0	0	0	0	0	0	1	6	1	1	0	0	1	2	3	10	13
79	M.C.M. II	0	3	0	1	0	0	0	0	2	2	0	0	0	0	0	3	2	9	11
80	MC A I	0	3	1	0	0	0	0	2	6	7	3	0	0	0	3	2	13	14	27
81	MCA II	0	3	0	0	0	0	1	0	3	9	0	0	0	0	4	10	8	22	30
82	MCA III	1	1	0	0	0	0	0	0	2	3	1	1	0	0	1	1	5	6	11
83	MBA I	6	7	0	2	0	0	1	0	7	11	2	5	0	0	6	7	22	32	54
84	MBA II	2	7	0	0	0	1	0	1	7	14	2	0	0	0	2	7	13	30	43



2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends i.e. reasons for increase/decrease and actions initiated for improvement.

Level of the Programmes	Number of Applications / Intake capacity					No. of Students Admitted					Demand Ratio				
	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17	2012-13	2013-14	2014-15	2015-16	2016-17
<b>U. G.</b>															
B. A. I	220	220	220	220	220	219	220	231	231	263	1:1	1:1	1:1	1:1	1:1
B. Com. I	220	220	220	220	220	220	220	245	241	248	1:1	1:1	1:1	1:1	1:1
B. Com. I ENG	120	120	120	120	120	120	120	146	138	144	1:1	1:1	1:1	1:1	1:1
B. Sc. I	120	120	120	120	120	133	120	150	144	149	1:1	1:1	1:1	1:1	1:1
B. Sc. Bio I	300	300	300	300	300	151	183	186	229	231	1:0.97	1:1	1:1	1:1	1:1
B. Sc. Biotech I						133	117	186	126	154					
B. C. A. I	220	220	220	220	220	220	120	138	189	220	1:0.31	1:0.55	1:0.63	1:0.86	1:1
B. B. A. I	120	120	120	120	120	107	120	136	127	144	1:0.89	1:1	1:1	1:1	1:1
B. C. C. A.I	220	220	220	220	220	142	96	187	101	75	1:0.65	1:0.44	1:0.85	1:0.46	1:0.34
B. Tech. I	40	40	40	40	40	29	21	20	38	40	1:0.73	1:0.53	1:0.50	1:0.95	1:1
B. Lib.	40	40	40	40	40	05	04	--	---	---	1:0.13	1:0.1	---	----	----
B. Voc I SD			50	50	50	--	--	23	45	50	---	----	1:0.46	1:0.9	1:1
B. Voc I RM			50	50	50	--	--	19	08	50	----	---	1:0.38	1:0.16	1:1
<b>P. G. Diploma</b>															
PGDCA I	60	60	60	60	60	28	15	14	07	07	1:0.46	1:0.25	1:0.23	1:0.12	1:0.12
PGDCSA I	60	60	60	60	60	18	03	01	04	02	1:0.3	1:0.05	1:0.02	1:0.067	1:0.033
<b>P. G.</b>															
M. Sc. Phy I	22	22	22	22	22	12	19	22	22	22	1:0.55	1:0.86	1:1	1:1	1:1
M.Sc. Chem I	30	30	30	30	30	30	28	28	29	30	1:1	1:0.93	1:0.93	1:0.97	1:1
M. Sc. Elec I	22	22	22	22	22	06	03	07	12	10	1:0.27	1:0.14	1:0.32	1:0.55	1:0.46



M. Sc. Maths I	22	22	22	22	22	21	22	22	22	23	1:0.96	1:1	1:1	1:1	1:1
M. Sc. CS I	22	22	22	22	22	22	22	22	22	22	1:1	1:1	1:1	1:1	1:1
M.Sc. Bot I	22	22	22	22	22	12	04	10	14	22	1:0.55	1:0.18	1:0.46	1:0.64	1:1
M. Sc. Zoo I	22	22	22	22	22	10	09	17	17	22	1:0.46	1:0.41	1:0.77	1:0.77	1:1
M Sc BiotechI	22	22	22	22	22	03	02	05	08	22	1:0.14	1:0.09	1:0.22	1:0.36	1:1
MSc Micro I	22	22	22	22	22	22	20	22	22	22	1:1	1:0.9	1:1	1:1	1:1
M Sc Bioche I	22	22	22	22	22	--	01	01	09	05	---	1:0.045	1:0.045	1:0.41	1:0.23
M Sc Evs I	22	22	22	22	22	02	---	16	17	22	1:0.09	---	1:0.73	1:0.77	1:1
M Com I	160	160	160	160	160	160	150	158	160	159	1:1	1:0.94	1:0.99	1:1	1:1
M. A. Eng. I	60	60	60	60	60	34	35	41	44	50	1:0.57	1:0.58	1:0.68	1:0.73	1:0.83
M. A. Mar I	60	60	60	60	60	18	14	24	22	18	1:0.3	1:0.23	1:0.4	1:0.37	1:0.3
M. A. Eco I	60	60	60	60	60	33	24	43	31	28	1:0.55	1:0.4	1:0.72	1:0.52	1:0.47
M. A. Pol SciI	60	60	60	60	60	12	18	19	13	25	1:0.2	1:0.3	1:0.32	1:0.22	1:0.42
M. A. Socio I	60	60	60	60	60	19	25	36	30	25	1:0.32	1:0.42	1:0.6	1:0.5	1:0.42
M. A. His. I	60	60	60	60	60	15	10	32	22	20	1:0.25	1:0.17	1:0.54	1:0.37	1:0.34
M. Tech Cos.	15	15	15	15	15	11	14	12	---	09	1:0.74	1:0.94	1:0.8	----	1:0.6
M. Lib. I	40	40	40	40	40	12	---	03	06	02	1:0.3	--	1:0.075	1:0.15	1:0.05
MCM I	60	60	60	60	60	33	36	53	12	13	1:0.55	1:0.6	1:0.88	1:0.2	1:0.22
MCA I	60	60	60	60	60	60	06	14	32	27	---	1:0.1	1:0.23	1:0.53	1:0.45
MBA I	60	60	60	60	60	60	59	60	59	54	1:1	1:0.98	1:1	1:0.98	1:0.9
Ph. D. (Che)	10	10	10	10	10					10					1:1
Ph. D. (Phy)	10	10	10	10	10					08					1:0.8
Ph. D. (Elec)	10	10	10	10	10					06					1:0.6
Ph. D. (Comp.Sci)	10	10	10	10	10					02					1:0.2
Ph. D. (Maths)	10	10	10	10	10					00					--
Ph. D. (Commerce)	20	20	20	20	20					11					1:0.55



For the B. Sc., B. Com., B. A., B. B. A. Programmes, there is more demand from the students than the intake for the last five years. We are admitting students on first come first basis with minimum cut-off percentage and even admitted the students more than intake capacity in above programmes with prior permission of RTM Nagpur University, Nagpur. The demand ratio in above programmes is around 1:1.

For BCA and B. Tech (Cosmetic Technology), the demand ratio is increasing every year. The programme/course for B.Voc. Started late in the academic year 2014-15 so the demand ratio is very low during first year of inception, then demand ratio shows increasing trend.

For the professional programmes like BCCA, PGDCCA, PGDCSA, MCM and MCA the demand ratio is variable as per variations in market requirements.

For most of the P. G. Courses in science subject, demand ration shows increasing trend and for last three years demand ratio is 1:1, however demand ratio for P. G. Biochemistry is low.

## 2.2 Catering to Student Diversity

### 2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The government reservation policy is strictly followed to provide admissions to the differently abled students. There are few students who are differently-abled. The government scholarships are provided to such students. The visually impaired students are provided scribes, software ABRAR and some books in Brail Script are also made available in the library. At the time of examinations, the writers are provided to the students suffering from dyslexia and physically disabled students who are unable to write. We have ramps, wheel-chairs for mobility of such students. These students are encouraged at every level in the college. Special counseling is imparted to such students. Every help is extended by teaching and nonteaching staff within the campus. Special instructions are also given to the security guards to help them to reach respective buildings.



**2.2.2 Does the institution assess the student's needs in terms of knowledge and skills before the commencement of the programme? If "yes", give details on the process.**

Yes, in order to assess the students' needs in terms of knowledge and skills, the college has adopted the following process.

- a. Determine the students' needs during the admission process: This is handled by the members of the admission committee through one-to-one counselling to help students in selecting appropriate subject combinations.
- b. In the first (entry) year, during the initial one week of commencement of the academic year, teachers are instructed to take special efforts to take an overview of the background of the subjects the students have learnt in Std.XII. Revising the basics of these subjects helps in bridging the knowledge gap and brings weaker students at par with others.
- c. During interactions in the classroom or during laboratory sessions, teachers identify the nature of support required.
- d. Update the teaching-plan so as to cater to the needs of the students.
- e. Orientation lectures are organized at the departmental level to inform the students about syllabus, semester pattern, discipline, dress code, employment opportunities, etc.
- f. The students are advised to avail of all the facilities in the college like the central library, computer labs and nature clubs and supporting activities such as NSS, NCC and games and sports.



**2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?**

Teachers dedicate initial sessions towards further assessing and bridging the knowledge/ skill gap of enrolled students. Interactions between teachers and students during lectures/practical help in revealing the knowledge level of the



students. The academic performance in previous academic year helps in identifying the slow/weak and advanced learners.

The strategies adopted by the college are as follows:

- a. While preparing the strategy to bridge up the knowledge gap of the enrolled students, the faculty members give special attention to slow learners. The teachers take into consideration the limitations of such students and accordingly conduct bridge course to cope up with present curriculum.
- b. The college conducts remedial classes for SC/ST/OBC and academically weaker students in different subjects to enhance their comprehension level so that they can grasp the content of the curriculum
- c. Enrichment programmes and Teacher Mentors help the students to enhance their communicative skills, soft skills, aptitude and academic accomplished good personality traits which reflect that this exercise proved to be rewarding.
- d. The college runs Add-on courses (Certificate/Diploma/Advanced Diploma) to facilitate the advanced learners to enhance their knowledge in the respective disciplines.
- e. College conducts various competitions such as essay, quiz, debate, elocution, slogan, and sports for all-round development of the students.

#### **2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?**

The college is co-educational institution. The ratio of girls to boys is approximately 70: 30. The college sensitizes its staff and students in terms of crucial issues like gender, inclusion, environment by way of seminars/workshop/guest lectures on the relevant topics like women's empowerment, rights of women, female foeticide etc. Celebration of women's day by teachers and students is also a regular feature.



These activities are carried out and monitored through women's cell, NCC and NSS. The college has organized various extension activities for environment awareness like rallies, lectures, publication of wallpapers, tree plantation, Save Earth' programme, essay, slogan, collection of nirmalya on the occasion of Ganesh idol immersion, etc. to arouse consciousness among the students. Examination in Environmental Studies of B.Sc. Part II / B.Sc. Semester IV is conducted as a part of curriculum. The college also conducts Green Audit at the level of energy conservation, water conservation, waste management and pollution control. Faculty and students from department of Environmental Science and Botany undertake the audit.



### **2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?**

Taking into consideration the performance of the students in the previous university and internal examinations, the advanced learners are identified. Such students are motivated to read advanced reference books, journals by providing special library facilities. They are asked to solve the model question papers, and after their response they are given special guidance to perform better in the future. For seminar, projects, etc., they are given advanced topics and necessary assistance. The students are deputed to attend seminars/workshops conducted in their respective areas and thus they get exposure to advanced areas in the subject. They are encouraged to take part in various competitions like science exhibition (*Avishkar*), quiz, elocution, debate, etc. **The central government 'Inspire' scholarship holder students are deputed to undertake summer project work in other institutes.** The teachers take extra efforts to train and support the students in the best possible manner. Further such learners are motivated to go for higher studies and motivational lectures are organized to channelize their potential to accomplish their goals. The rank holder students are felicitated by the college every year during "Shardostav".





**2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?**

- The college collects necessary information and data in connection with the academic performance of students from the dis-advantaged sections of society, physically challenged, slow learners, economically weaker sections etc.
- College obtains the data about the performance from previous University results, surprise tests, unit tests, terminal examination, completion of assignments and regularity in attendance.
- Following the analysis of the data, the names of the students who are on the verge of drop-out are communicated to respective class teacher. The teacher works as a friend, philosopher and guide.
- For the slow learners, there is remedial coaching is offered to improve their performance. Some faculty members even guide the students personally.
- At the institutional level, scholarships and free ships are offered which the student can avail of. Students can pay fees in instalments which help them to tide over their economic crisis.
- The moral of the slow learners is boosted by counselling, arranging remedial classes and intensive interactive sessions.
- Faculty members have interaction with the students even after class hours and they are further motivated by providing additional learning material such as text books and solved question papers of previous examinations.
- The specially-abled students are given manual help, if required.
- **Late Govindrao Wanjari Memorial Scholarship**

The 'Govindrao Wanjari Memorial Scholarship', would be given under the following heads:

- **Economically Backward Students' Scholarship**



This Scholarship is given to some students falling under the following criterion:

- a) The student should belong to BPL (Below Poverty Line) category.
- b) The income of the parents/guardians of the concerning students should not be above Rs. 1,00,000/-

The student liable for the scholarship can belong to any category/ caste/ religion.

- **Physically Handicapped Students' Scholarship**

This Scholarship is given to some students having physical disability and thereby, the Scholarship is given to the candidate having Certificate of the Civil Surgeon of the Govt. Hospital.

- **Meritorious Students' Scholarship**

- a) Students securing highest marks in the college.
- b) The top 3 scorers of the institution are given this scholarship

## 2.3 Teaching-Learning Process

### 2.3.1 How does the college plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

The college plans and organizes the teaching, learning and evaluation schedules well in advance. Before the commencement of the academic year, the institution prepares the general teaching schedule. The college annually publishes Academic Calendar 'containing the relevant information regarding the teaching learning schedule (working days), various events to be organized, holidays, dates of internal examination etc. The academic calendar is prepared so that teachers and students should know all the activities regarding teaching-learning process and it is also published on website of the college, and also displayed on each floor of the college building and in the faculty room.

The departments prepare their annual academic plan and assign workload as per the University norms. If the departments have inadequacy of faculty, the excess work is distributed within the existing staff, and/or temporary teachers.



The various teaching methods that adopted are: interactive method, project based learning, computer assisted learning, experimental learning, home assignment, question bank, seminar, quiz, paper presentation at the conference, use modern teaching aids like ICT, OHP, LCD etc.

The students 'academic progress is monitored regularly by adopting the strategy of continuous internal assessment, open-book test, surprise test, seminars, projects, group discussions, assignments, and monthly examinations.. The survey of the teaching-learning and evaluation is taken by the Principal regularly through the maintenance of the academic diaries.

### **2.3.2 How does IQAC contribute to improve the teaching–learning process?**

IQAC forms an integral part of academics and administration of the college. It has played an important role in streamlining the systems and processes as well as enhancing academic and other activities of the college. It is a connecting link between the teachers and the administration while working as a “facilitator” to enhance the quality of all college activities. The contribution of IQAC could be listed as follows:

- Plans the academic activities in the beginning of the year, and accordingly various departments and committees are entrusted with the implementation of the decisions taken.
- Organizing workshops to enhance use of ICT facilities to improve teaching-learning.
- Encouraging teachers to use different pedagogies for teaching.
- Ensuring availability of modern tools and techniques for all laboratories with reference to routine instruments, computers and high end instruments.
- Activating and facilitating all the committees of the college with regard to performance and provide support to the teachers for their academic, administrative and research endeavors.



- Monitoring academic activities throughout the semester through frequent meetings with Heads of various departments and suggesting means for quality sustenance and enhancement.
- Collecting feedback from students and stake holders on the classroom teaching and communicating it to concerned faculty.
- Motivating faculty members to participate in various seminars, workshops and conferences to enrich their knowledge.
- Interacting with the alumni and seeking feedback on overall improvement in college activities.
- Organizing regional, state and national level seminars/conferences/ workshops and expert lectures every year.

### **2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

Student centric learning is focused on the needs of students, their abilities, interests and learning styles where the teacher acts as a facilitator. Classroom teaching is one-to-many, but to make it more students centric, various strategies are adopted by the teacher. The following participatory teaching-learning activities are undertaken:

- The learning is made more participatory and socialistic by organizing activities like group discussions, model making, field survey, field visits, role playing, debates, quiz, preparation of assignments, seminars, project writing, demonstrations, exhibitions, publication of wallpapers, writing articles, book review, poetry recitation, etc.
- The college provides Audio Visual Hall with ICT facility and training of its usage to the teachers.
- The college also organizes co-curricular, extracurricular, sports and cultural events which help the students in developing their all-round personality.



- Students from UG/PG level are encouraged to present papers in conferences/seminars.
- Eminent personalities from different walks of life are invited to deliver lectures on a variety of career options and competitive examinations.
- Extension and outreach activities in rural areas are organized by some departments to acquaint students with social, environmental, educational and health related issues.
- Computerized central library with marvelous collection of books, INFLIBNET and departmental core library.
- Students have the privilege to publish their articles, poems and other creative writings in college magazine “KAMAL GANDHA”
- Language laboratory, Video conferencing, well equipped laboratories.

### **2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into lifelong learners and innovators?**

The college promotes creativity amongst students by encouraging them to publish materials in the college magazine, and wall papers. The college has annual publication (college annual) called *Kamal Gandha*, comprising different languages and subject sections enhancing critical thinking, creativity and scientific temper among the students. Creative writing in different literary forms like the story, poem, one-act play, travelogue, scientific and thought-provoking articles by students find a place of prominence in the magazine. The college used to publish annual research journal ‘**Kamla Nehru Journal of Science and technology**’. Now it has also included Commerce and Arts in its purview and so now it is known as **Kamla Nehru Research Journal**’. The college also celebrates various days.

The college takes special efforts to instill and nurture creativity and scientific temper among the learners by providing opportunities through the following:

- Students ‘projects and seminars
- Field work



- Power Point Presentation Competitions
- Participation in the competitions which nurture creativity: Avishkar, Indradhanushya, Youth Festivals, etc.
- Publication of wall papers and organization of exhibitions.
- Participating in seminars, conferences, workshops at college, state, and national level.
- Research paper presentation at the regional / national level
- Panel Discussions, Group Discussions
- Literary Forum
- Guest lectures are organized on the occasion of birth and death anniversaries of eminent scientists and social thinkers to impart values to the students.
- Some departments encourage project at the undergraduate level while it is an integral part of curriculum for PG students.
- Scientific Projects, rangoli, art, flower decoration are organized to explore hidden talents of students during *Shadotsav*. Students participate in University level research festival *Avishkar*.
- Students are encouraged to participate in seminars and group presentations on current topics held at intra-collegiate, inter-collegiate



**2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.**

The college has introduced innovative practices in pedagogy to make teaching learning more effective and to assure and enhance our academic quality. All courses use the following teaching aids in addition to the lecture method:

- Smart class room/virtual Classroom (LCD, Audio-video equipped)
- Audio-visual aids to supplement lectures in classroom.
- Computer Aided Learning (Internet, Power Point Presentations)
- Video lectures through National Knowledge Network connectivity.
- Use of charts, posters and models for effective teaching
- Language Lab
- Screening of movies/ documentaries
- INFLIBNET for online access to e-material
- Students' participation in symposium/seminars/workshops.
- Group Discussions and students' seminars
- Educational/industrial visits/trips are organized to enrich knowledge base.
- The students access the various academic web sites (open educational resources) and visit research institutes and industries.
- Licensed softwares like LIBMAN, OPAC installed in the library for library management, accession in classification, searching, issue return, record keeping, daily statistics and clearance report etc. The Department of Electronics has TINA software for PCB designing and circuit making. The Computer Science Department has software like Microsoft Windows (SR8SNGLOLPNL) and Oracle 11G STD for academic use.



### 2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

The college provides exposure to the students and faculty to advanced level of knowledge and skills by—

- Organizing national seminars/conferences/workshops to acquaint students and teacher with the recent developments/trends in various subjects.
- Motivating faculties and students to participate in the seminars/conferences/workshops.
- Motivating faculties to publish and present papers at various academic events by giving incentives.
- Encouraging faculties to participate in various training programmes, summer schools, orientation and refresher courses to keep themselves abreast of the recent developments and advanced knowledge in the respective areas of specialization.
- Guiding the faculties to undertake major and minor research projects.
- Organizing expert/guest lectures on variety of topics for blended learning.
- Organizing educational visits/trips to give firsthand knowledge to students and faculties.
- Providing IT facilities to have access to advanced knowledge.
- The well-equipped computer laboratory, language laboratory, digital library and central research laboratory have facilitated the students to acquire competence.





### 2.3.7 Detail (process and the number of students\benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advice) provided to students?

During college life, some students require special kind of support or help from the college.

- The college has constituted various committees to deal with students' issues regarding academic, personal, and psycho-social support and guidance services, like the Feedback Committee, Library Committee, Grievance Redressal Cell, Women's Development Cell, Discipline Committee and Placement Cell. Besides this, mentoring of the students is done at personal and departmental level. Academic advice is given to the students in day-to-day teaching-learning process.
- The Principal takes keen interest in the mentoring of the students particularly on the psycho-social issues. The mentoring of the girl students in the hostel is taken up mainly by the rector under the guidance of the Hostel Committee. Some separate activities are organized for the girls in the hostel.
- The Career guidance cell of the college helps the students to take care of their career development from exploring their career options to securing the expected job. The Cell not only offers help with career choice and job hunting but also helps in developing skills that employers look for by conducting trainings/workshops. Numerous employers participate in on-campus presentations, talks and workshops. Campus recruitment fairs and interviews are organized to help the students to find placements in companies of repute.
- During last five years 199 students are placed in about 53 organizations.
- Professional Counseling is imparted through Career guidance cell. Extension activities through NSS help them in grooming leadership qualities, team work, self-esteem, ethics, shouldering responsibility etc. They are also encouraged to participate in seminar/quiz/workshop.



**2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?**

The faculty members have adopted various innovative teaching approaches /methods.

- The faculties have adopted the innovative teaching approaches/methods by using ICT, MI board, power point presentation in teaching learning, use of models and charts.
- The college has set up Modern language laboratory wherein the students are benefitted in linguistic skills.
- The college has provided internet and Wi-Fi facilities, LCDs, software, computers, e-books/journals, addition of modern equipment in the laboratories. The college has organized training programmes on the use of ICT.
- Exposure to field work through excursion/educational tours and social commitment through extension activities.
- The college facilitates the teachers to attend training programmes, workshops by giving duty leaves.
- The college has signed MoUs/agreements with number of agencies/industries which give opportunity for the application of knowledge and to know innovative technology/services used by the agencies. These initiatives on the part of the college encourage faculties to adopt innovative methods of teaching and to inculcate research aptitude among the teachers.
- For example, the Department of Physics encourages students to feed the data collected by performing experiments into the PC and make computational calculations using EXCEL and plot graphs using Origin software. The Department of Electronics uses software PCB designing, TINA and EPROM programmer used for programming purpose. Experimental manuals prepared for performing practical



and PPTs of manuals prepared by the faculties and displayed during the practical hours.

**Impact:**

- Through these practices, the students are enriched with advanced knowledge and technology in their concerned fields.
- Students secured merit positions, bagged awards/prizes in university examination and other competitions.
- Resulting into increase in the result and rank-holders in various examinations.
- The result of the campus interviews is also encouraging for the students.
- More number of faculties is engaged in research by undertaking MRPs, Ph.D., M. Phil. and research guidance.
- Students participated/ presented papers in workshops/conferences/seminar/quiz etc.
- Some students succeeded in NET/SLET.
- Cadet **Ujjawal Shirpurkar** represents the Maharashtra Contingent in **RD parade New Delhi 26<sup>th</sup> Jan. 2014**. Also participated in the **Priminister Rally on 27<sup>th</sup> Jan. 2014**.

**2.3.9 How are library resources used to augment the teaching-learning process?**

- The library resources are used to augment the teaching-learning process by open access system for its services. The library is open for all working days and during vacations. There is a Book Bank facility to cater exclusively to the needs of the underprivileged students. The books under this scheme are issued for an academic year with minimum charges. E-resources are hosted through INFLIBNET services. The library also provides services of National Knowledge Networking, OPAC, UGC- Network resources. Free internet access is available for all stakeholders.
- The college purchases the latest books as per the requirement of the users. Book exhibitions about new arrivals, and also on a particular field/writer are organized. There are separate sections for reference books, textbooks and periodicals. The library services are also extended to the students aspiring for the competitive



examinations. Inter Library Loan Services (ILL) are also available for a limited period of time.

- Library subscribes national / international journals, periodicals, news dailies, magazines, competitive examination books, project volumes, Manuals and provides the facility of reprography, scanning and printing. New arrivals of academic resources are displayed from time to time.
- Staff and students also avail the facility of departmental Library.

**2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If 'yes', elaborate on the challenges encountered and the institutional approaches to overcome these.**

The college has built-in mechanism to ensure curriculum completion within the planned time frame. Some of these measures include:

- A well-prepared and complete Academic Calendar of the College.
- Workload distribution is finalized by the departments in the beginning of the academic year
- Teaching plan is prepared by every teacher in the beginning of the year and maintenance of Academic Diary.
- Teachers also conduct monthly unit tests, surprise tests and assignments for internal assessments. The college takes due care to follow academic calendar.
- The Principal, Heads of departments and IQAC monitor and ensure the completion of syllabi and other academic.

Some unexpected problems like the teacher on leave for a long period due to unavoidable reasons may create difficulties in completing the curriculum in time. Under such circumstances, the management makes necessary arrangements for the completion of the curriculum through temporary appointments. If faculty is not available, in exceptional cases, the extra workload is shared by the existing faculties for the time being. The faculties also conduct extra lectures for the completion of curriculum in time.



When there is delay in the declaration of results, provisional admissions are given in order to save the loss of teaching hours of the students.

### 2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

The college monitors and evaluates the quality of teaching learning in various ways. Academic and Administrative Audit (AAA) system has been established by the management to monitor and evaluate the quality of teaching-learning. **The college also applied to RTM Nagpur University for its Academic and Administrative Audit.** The feedback from the students about quality of study material, teaching methodology, behavior of teacher, and involvement of teacher, interest of teacher in his subject etc is obtained in the structured proforma. From the analysis of the feedback, the quality of teaching-learning is evaluated, and, if required, the necessary measures are taken to improve the quality of teaching-learning.

The following measures are also taken to monitor and evaluate the quality of teaching-learning:

- Well-in-advance preparation of academic time table.
- Publication of Academic Calendar each year.
- Preparation of Teaching Plan by the faculty.
- Teacher wise result of the university examinations is analyzed and discussed in the meetings of college council and LMC for corrective measure if any.
- Maintaining the Academic Diary.
- Syllabus completion report by the concerned faculty in the end of each semester.
- Teachers' evaluation is done through self appraisal (PBAS).
- Monitoring process through IQAC.



## 2.4 Teacher Quality

### 2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

The college adopts the strategies in recruitment and retention to meet the changing requirements of the curriculum.

- The policy of recruitment is transparent. Management follows the procedure of recruitment with the approval of Joint Director and University. The selection committee is constituted for recruitment as per the norms of University
- College follows the norms of UGC, state government and university for the appointment of teaching staff.
- Eligibility criteria and the norms of reservation are strictly followed.
- Contributory/Ad-hoc teachers are appointed as per the requirement.
- An approval is sought for selected/appointed teachers from University.
- The faculties are deputed to participate in the workshops on revised syllabi.
- The college grants duty leave to attend seminars/ conferences/ workshops/short term course (one week)/orientation and refresher courses.
- The staff members are motivated to do the research work by undertaking Major and Minor research projects for which laboratories and infrastructure are made available as per their requirement.
- Best teacher award and best researcher award are given to motivate the faculty members for better performance in their academic activity.
- The college is one of the renowned college in the Nagpur and the faculties are happy to serve in this college.

The college has fully qualified and competent teachers as under



Highest qualification	Professor		Associate Professor		Assistant Professor		Total
	Male	Female	Male	Female	Male	Female	
<b>Permanent teachers</b>							
Ph.D.	01		08	04	08	12	33
NET/SET					11	11	22
M.Phil.			03				03
PG				01	04	12	17
<b>Temporary teachers</b>							
Ph.D.					02		02
NET/SET					04	01	05
M.Phil.					02		02
PG					19	102	121
<b>Part-time teachers</b>							
Ph.D.							
M.Phil.							
PG							

**2.4.2 How does the institution cope with the growing demand/scarcity of qualified senior faculty to teach new program/modern areas (emerging areas) of study being introduced (biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during last three years.**

- To cope up with the growing demands/scarcity of qualified senior faculty to teach new programmes such as BCA, BCCA, B.Sc.(Bio-tech.), management /college appoint the teachers through the selection committee constituted as per the norms of university and state government. Selection is made exclusively on the basis of academic merit and performance in the personal interview.
- The college has appointed 06 teachers on ad-hoc basis in the department of Biotechnology and 15 teachers in the department of Computer Science to teach Information Technology under M. Sc. Computer Science, BCA and MCA.
- Guest lecturers of eminent resource persons are arranged.
- The outcome of these efforts is that teaching has not been hampered the teaching learning and evaluation process runs smoothly.



### 2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

Strategies adopted for enhancing the teacher quality:

- The college/ management encourage the teachers to go for higher studies. FIP /study leave is granted to the staff to pursue research degree (Ph. D.)
- Duty leave is granted to attend seminars/ conferences/workshops /short term course (one week)/orientation and refresher Courses.
- Library is equipped with reference books, e-books, educational CDs, Journals, Manuals, INFLIBNET etc.
- The college also organizes faculty development programmes.
- The teachers are encouraged to work as convener, organizing secretary, chairperson, key note speaker and resource person to deliver talk during national and international conferences etc.



#### a) Nomination to staff development programmes

Academic staff development program	Number of faculty						Total
	2012-13	2013-14	2014-15	2015-16	2016-17		
Refresher course	--	---	01	02	02	05	
HRD Programs	---	---	----	01	--	01	
Orientation program	---	---	01	01	01	03	
Staff training conducted by the college	---	---	----	--	01	--	
Staff training conducted by university/other college	---	02	01	03	06	12	
Summer/Winter schools, workshops, etc.	01	---	01	10	02	14	
UGC- Faculty Improvement Programme	---	---	---	---	---	---	

(List of Teacher who have attended Refresher Course & Orientation Programme in the last five year is encl. in **Annexure V**)





**b) Faculty training programs organized by the institution to empower and enable the use of various tools and technology for improved teaching learning:**

- **Teaching learning methods/approaches**

1. A training programme was conducted to familiarize the teachers to use the interactive boards.
2. A workshop was organized by the Dept. of Computer Science for the faculties from Arts, Commerce and Science streams on Preparation of Slideshow, E-mail and Internet Surfing.

- **Handling new curriculum**

1. Recently RTM Nagpur University, Nagpur has introduced semester pattern in Arts and Commerce faculty and to make acquainted with the Department of Commerce organized University level one day workshop on Revised syllabus of B. Com. Part-I on 06/08/2016.

- **Content/knowledge Management:**

The college organized the meetings of the experts from industries and other agencies to frame the syllabi of B.Voc. Programmes.

- **Selection, development and use of enrichment materials: Nil**

- **Assessment:**

The workshops organized by the college on the revised syllabi have a component on the pattern of question papers and the assessment strategy to be adopted. The college organized a meeting for the faculties to discuss on the CBCS.

- **Cross cutting issues:**

Cross Cutting Issue	Name of the event
Health	1. Bone Density Check-up Camp
	2. Haemoglobin Check-up Camp
	3. Blood group Check-up Camp
	4. Blood donation Camp
Environment	1. Green Audit
	2. Rain Water Harvesting done
	3. Tree Plantation Program
	4. Feeders and water pots are set in the premises of college campus for birds



	5. Preparation of Bio fertilizer from Kitchen Waste.
	6. Preparation of Bio fertilizer from Floral Waste.
Gender	1. Girls Beware A programme was conducted by Prof. Vijay Marotkar.
	2. Relation between Mother and Daughter A lectures deliveredby Mrs Mira Khadatkar
	3. Poster competition was taken on Female Foeticide and Gender Equality.
	4. Save the Girl Child,prohibition of dowry
ICT	1. B.Sc.(Computer Science)
	2. M.Sc.(Computer Science)
	3. B.C.A.
	4. M.C.A.
	5. M.C.M.
	6. PGDCA
	7. PGDCS
	8. BCCA

- **Audio Visual Aids/multimedia:**

Faculty members are given training in handling interactive smart boards and related accessories to enhance teaching strategies.

- **OER"s:**

The College organized a training programme to the faculty to use library e-resources. On the basis of this training the students as well as teacher can now access e-resources from INFLIBNET (N-list)

- **Teaching learning material development, selection and use:**

All the teachers develop their teaching materials for ICT enabled teaching. They prepare PowerPoint presentation on the basis of material collected from various resources. They use these compiled material in the teaching learning process.

**c) (i) Percentage of Faculty being invited as resource person in work shop /seminars /conference/Guest lect. organized by external professional agencies:**

08 faculty members out of permanent 32 faculty members (25%) have been invited as resource person at various events.

Year	Name	Department	Conf./semi/ details	Period and date	Sponsor agency	Organizer



2012-13	Dr. B. A. Meghe	Commerce	International Interdisciplinary research and development in management, engg, tech and social sci 2012	April 28-29, 2012	Self	Choi institute of management studies and research Pune.
	Dr. B. A. Meghe	Commerce	International Interdisciplinary research symposium on global melt down its impact on business, management, engg, tech social sci, and environmental issues	April 06-07, 2013	CCEAM	Cental India group of institutions Nagpur
2013-14	Dr. D. S. Badwaik	Physics	National conference on "Materials Characterization and Their Application"	Feb. 06, 2014.	UGC	Anand Niketan College, Warora
	Dr. B.A. Meghe	Commerce	25 <sup>th</sup> Maharashtra State Commerce Conference	Feb. 10-11, 2014	Self	Nirmal Memorial Fondation College of Commerce and Science
2014-15	Dr. S. R. Moghe	Biotechnology	National Conference on Research Methodology and Avenues for Grants	Jan. 07-09, 2015	DBT	National Institute of Miners Health, Wadi, Nagpur.
	Dr. P. K. Butey	Computer Science	International Conference On Emerging Trends In Computer Science, Communication And Information technology	Feb. 09-11 2015	DST, DBT	Department Of Comp. Sci. Yashvant Mahavidyalaya, Nanded(MH)
	Dr. D. S. Badwaik	Physics	International Symposium on Ultrasonics	22 – 24 Januar	UGC	Department of Physics, R T M Nagpur Uni.,



			Theme: “Ultrasound in Biomedical and Industrial Applications”	y 2015		Nagpur,
	Dr. P. B. Dahikar	Electronics	National Conference on Nanotechnolog y and Its Aplication	Dec. 24, 2014	UGC	Shivaji Science College, Nagpur.
	Dr. W. B. Gurnule	Chemistry	Crystal Field Theory and Isomerism in Complexes	Feb. 26, 2015	Self	Gurunanak College, Ballarpur.
	Dr. W. B. Gurnule	Chemistry	Ligand Field Theory”	March 09, 2015	Self	Shivaji Science College, Amravati
	Dr. W. B. Gurnule	Chemistry	Electronic Spectra of Transition Metal Complexes	March 24, 2015	Self	Mohta Science College, Nagpur
	Dr. B.A. Meghe	Commerce	38 <sup>th</sup> International Grand Conference convocation and award presentation ceremony	July 27, 2014	Self	Nox Internationla University
	Dr. B.A. Meghe	Commerce	41 <sup>th</sup> International Grand Conference convocation and award presentation ceremony	Nov. 2, 2014	Self	Nox Internationla University
<b>2015 -16</b>	Dr. S. P. Puppawar	Physics	National Conference on Luminescence and its Applications	Feb. 18-20, 2016	UGC	Department of Physics, R T M Nagpur Uni., Nagpur,
	Dr. D. S. Badwaik	Physics	International Conference on Science and Technology for Sustainable Development	May 24-26, 2016.	STAMI, MASS	STAMI Kuala Lumpur, Malaysia
	Dr. P. B. Dahikar	Electronics	International Conference on Material	Sep. 12, 2015	Self	S. F. S. College, Nagpur.



			Science			
	Dr. S. S. Mukherjee	English	Workshop on NAAC Reaccreditation	Nov.07, 2015	Self	Jawaharlal Nehru, College, Wadi, Nagpur.
2016-17	Dr. S. S. Mukherjee	English	Workshop on Quality Enhancement Initiatives	Oct. 15, 2016	IQAC	R. S. Mundle Dharmarth Arts and Commerce College, Nagpur.
	Dr. S. S. Mukherjee	English	Workshop on Quality Enhancement Measures	Feb.07, 2017	Govt.	Institute of Science, Nagpur.
	Dr. W. B. Gurnule	Chemistry	National Conference on Novel methods and Environment	Dec.06, 2016	Chattisgarh Council of Science Raipur	DLS College Bilaspur
	Dr. W. B. Gurnule	Chemistry	Workshop on Environmental Management	Oct. 14, 2016	Self	Arts and Commerce college, Jawaharnagar

(ii) Percentage of Faculty attended and participation in paper presentation in external workshops / seminars /conferences recognized by national / international professional bodies.

S. No.	Year	% of staff attended conf.Approx.	% of staff presented paper in conf.Approx
1.	2012-13	50.00%	34.37%
2.	2013-14	61.87%	40.62%
3.	2014-15	58.75%	40.62%
4.	2015-16	59.42%	36.57%
5.	2016-17	38.88%	18.68%

During last four years almost all faculty members participated and/or presented papers in workshop/seminar/conference conducted by external agencies.



**2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications, teaching experience in other national institutions and specialized programmes, industrial engagement etc.)**

The college adopts the following policies/systems to recharge teachers:

- There are certain practices to recharge teachers like Academic and Administrative Audit (AAA) by the panel of peers appointed by the management, maintenance of Academic Diary, and submission of Self appraisal/PBAS reports.
- The college promotes research culture among the faculties by encouraging them to take up minor and major research projects.
- The college encourages the faculties to attain higher and additional qualifications.
- The college publishes a peer-reviewed research journal “**Kamla Nehru Journal of Science and Technology**” to promote research culture among the faculties. Now it has also included Commerce and Arts in its purview and so now it is known as **Kamla Nehru Research Journal**.
- 06 departments (Physics, Chemistry, Electronics, Computer Science, Mathematics and Commerce) are recognized by RTM Nagpur University, Nagpur as a centre for Higher Learning and Research. The college established centralized research laboratory having modern sophisticated instruments.
- The central library has all resources for the advanced research study i.e. E-learning, Lib-Man, OPAC, UGC-Network resources, INFLIBNET.
- The faculties are motivated to work as co-authors, unit writers, and editors for the reference books, and textbooks.



- During the last five years, the college hosted 11 national seminars/conferences in various disciplines funded by the UGC/DST/NAAC. It gives a platform to the faculties to enhance the research talent among them.



- The college motivates the faculties to publish and present research papers in national and international level seminars by giving duty leaves.
- The college facilitates the faculties to participate in the seminars/conferences/workshop as resource persons/visiting faculties by sanctioning Duty Leave.
- The college deputs the faculties to attend Orientation, Refresher, and Training courses by sanctioning study leaves.
- The faculties are felicitated for their achievements every year.

**2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.**

Following faculty members received awards/recognition at the state, national, and international level for excellence in teaching during the last five year:

1. **Prin. Dr. Arvind K. Shende , Dept. of Commerce: The Best Writer Award by RTM Nagpur University, Nagpur.**
2. **Dr. Bharat Meghe, Dept. of Commerce: The Best Teacher Award by Maharashtra Government.**
3. **Dr. Ashok I. Kamble , Dept. of Commerce: The Best social worker by RTM Nagpur University, Nagpur.**

The college inspires all the faculty members to work in the interest of the students and with social responsibility. The college provides the educational resources and support to the faculties. The faculties achieve this success due to the appreciation and



support from the college. The college has pleasant and healthy ambience enhancing teaching performance of the faculties. There is an environment of a team work which creates a belief that they work in a family called *Kamla Nehru Pariwar*.

**2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?**

- Yes. The college has established a mechanism for taking feedback on teaching every year. The IQAC implements the feedback process for all programmes in each semester and year pattern. The Feedback Committee critically analyses the feedback from the students and shares it with teachers to seek improvement in the teaching-learning process, if necessary. The suggestion boxes installed in the college are also means of collecting evaluation of teachers from the students. The evaluation helps the teachers to understand their strengths and weaknesses. The feedback is used to make improvement in the performance of the faculty. This practice has proved very useful as far as teaching-learning process is concerned.
- The management has set a practice of Academic and Administrative Audit (AAA) every year through the panel of peers appointed by the management. In the visit, the panel interacts with each teacher individually to evaluate their performance. At the end of the visit of the AAA panel, an exhaustive evaluative report is submitted to the Principal based on a SWOC analysis.
- Based on all these evaluation measures, the Principal/HoDs instruct and appreciate the faculties for the proper encouragement. The faculties with excellence in teaching are appreciated by the Principal and put them as role models before other faculties.
- College also follows the self-appraisal method to evaluate the performance of Teachers.





## 2.5 Evaluation Process and Reforms

### 2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The Institution takes the following measures for evaluation processes:

- In the beginning of each semester, the students are instructed about the syllabus and evaluation process. The details about evaluation process are available on the university website. The university also sent the soft copy of the syllabi and question papers of previous examination are made available to every affiliated college.
- The tentative time table of the university examinations is sent by the university well in advance, which is also displayed on the university website. The stakeholders are made aware of evaluation processes by informing them through college notice boards.
- The information about the tentative dates of time table of examinations such as unit tests, surprise tests, terminal/test examination, internal assessment is given through notices, academic calendar and website.
- The principal discusses the norms of evaluation in the meeting of college council.
- A detailed time table for terminal/test examination and submission of assignment is put up on the notice board well in advance to help the students to plan and prepare effectively.
- The report of evaluation is made available to all stakeholders during the address by the principal and at the time of parent-teacher meet.
- The valued answer books of test examination are given to the students by respective teachers. The model answers are discussed with the students. The result of this examination is also communicated to parents.



### **2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?**

The major evaluation reforms of the university:

- Semester pattern at UG/PG courses.
- Choice based Credit system semester pattern for post-graduate courses.
- A scheme of marking is framed for theory, practical, projects, internal assessment.
- The university introduced a transparent system by providing photocopy of the valued answer books.

The evaluation reforms initiated by college:

- The concerned department maintains the record of internal assignments.
- At the beginning of each semester, every teacher informs students about the scheme of marking for internal assessment.
- As per the directives of university, the college conducts surprise tests, terminal examination, viva-voce etc. for assessment and evaluation of the students.
- Performance of the students also evaluated through reports on study tours, field visits, excursions, quiz, brain storming exercises, etc.

### **2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?**

College makes every effort to effectively implement the evaluation reforms of the university:

- The college strictly follows the assessment/evaluation reform as suggested by university.
- Evaluation reforms of the university received from time to time are communicated to faculty members and students. The principal ensures that the evaluation reforms are followed by every teacher.



- University made a provision of giving photocopy of the valued answer books of the university examination. The faculty members and the office staff help and guide the students in this regard so that he/she can go for revaluation.

For effective implementation of the evaluation reforms of the college:

- The information about the evaluation process is communicated to the students and teachers through academic calendar, notices, and meetings.
- After the evaluation their performance is discussed with the students and necessary instructions are given for their better performance.
- Heads of department call a meeting of the department faculty if any new evaluation method has to be used for assessment. Suggestions given by faculty are considered and new methods, if found suitable, are approved unanimously.
- The Heads of department monitor effective and timely implementation of the system and procedure of evaluation. Meetings are held with the department faculty as and when required.

#### **2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.**

The following are the formative and summative assessment approaches adopted by the college:

##### **Formative Assessment**

As per guidelines of university, 10/20 marks are assigned for internal assessment for each paper of different subjects. The students are assessed on the basis of class test, attendance, project assignments, seminar, subject Quiz, study tour, industrial visits, visit to educational institutions and research organizations, field work, group discussions or any other innovative practice / activity. There are one / two assignments for theory paper.

##### **Summative evaluation**



Test/terminal examinations as per the university pattern are conducted prior to university examinations. Faculty members can identify the slow and advanced learners from the class. Contact programmes are arranged to clarify the doubts of students. Because of this practice, the students' performance is improved. A few students secured positions in the merit list of university examination and also won the awards/prizes.

Due to these approaches, the student performance in the university examination enhanced. The number of students placed in various organizations and number of organizations conducting the campus interview have been increasing during the last five years. There is enhancement in vertical mobility of the students.

**2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightages for behavioral aspects, independent learning, communication skills etc.)**

The policy of the modern educational system is more and more transparent and the role of the students has greater significance. Internal assessment marks are displayed on departmental notice board and they are also made aware of the evaluation pattern, thereby a transparency is ensured. The assessed answer books are shown to the students and their doubts are cleared, if any.

With the introduction of the semester system from the session 2013-14, the internal assessment proved to be beneficial in judging behavioral aspects, independent learning, and communication skills of the students.

Students get credit marks (maximum 25) as an incentive for participation in inter collegiate & inter university tournaments. They are also entitled for incentive marks for participation in NCC/NSS.

**2.5.6 What is the graduate attributes specified by the college/ affiliating university?  
How does the college ensure the attainment of these by the students?**

The major graduate attributes of the collage are as follows:



The student should be:

- Well-versed in the subject of specialization.
- Aware of the social and moral responsibilities.
- Well-acquainted with the communication skills.
- Able to earn his own living.
- Acquire decision-making ability
- Prepared to strive for overall personality development
- A responsible citizen.
- Environment conscious.

The college ensures attainment of these graduate attributes by the students through the following activities:

- Personality development programmes
- Communication skill development courses
- Cultural and sports activities
- Various competitions
- Practical-based teaching
- Research aptitude is instilled among the students through projects, field visit, visit to research institutes etc.
- Organization of speeches by the eminent persons
- Blood-donation, health awareness, etc.
- Introduction of Career Orientation Courses.
- Discipline, team work, culture, social and ethical values are inculcated by involving the students in various activities through NSS and NCC.
- The staff and students assembled in the college for National Anthem.
- The students are encouraged to speak on the occasion of birth and death anniversaries of notable thinkers and social reformers.



- The safety awareness programmes such as fire fighting mock drill, road safety etc. are organized to overcome any critical and challenging situation.

### **2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?**

The internal assessment is transparent and the marks are displayed on the notice board before the commencement of university examination. Any discrepancies in the award of marks is immediately resolved.

At the university level, there is a Grievance Redressal Committee. If any student feels that the score given to him in any paper is not just, he or she can apply for the Photostat copy of the assessed answer-book. He/she can get it assessed from the other expert and approach the university authority for re- evaluation. This is an innovative and healthy practice of the university.

## **2.6. Student performance and Learning Outcomes**

### **2.6.1 Does the college have clearly stated learning outcomes? If” yes” give details on how the students and staff are made aware of these?**

Yes, the college has clearly stated learning outcomes through vision, mission and objectives of the college in its prospectus, hand book and display boards at prominent places. IQAC is constituted to discharge duties as per the directives of NAAC.

The student and staff are made aware of these through the college website, the college notice boards, and prospectus. They are also addressed in the various activities such as guest/experts lecturers, study tours, the Principal’s address to the students in the beginning of academic year, and meetings of the Principal with the stakeholders.

### **2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the student’s results/achievements (Programme /course**



wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

- The college monitors the progress of the students through the analysis of their performance in the internal and university examinations.
- Parent-Teacher-Meet is organized to communicate the students' progress/achievements and understand their problem if any.
- A subject-wise and teacher-wise result are analyzed and discussed in the meeting of college council and LMC and corrective measures are taken.
- The names of students who brought laurels to the institutions by securing merit position in the university examination are displayed on the notice board and their names are published in the brochure of achievements.
- A due appreciation is extended to students for their achievement in sports, NCC, NSS and cultural events.

#### Programme-wise details of the pass percentage of the students.

Class	No. of Students Appeared				No. of Students Passed				Pass percentage (%)			
	2012-13	2013-14	2014-15	2015-16	2012-13	2013-14	2014-15	2015-16	2012-13	2013-14	2014-15	2015-16
<b>U. G.</b>												
B.Sc. III	115	130	203	196	59	75	103	129	51.3	57.7	50.7	65.8
B.Com. III(Mar)	144	93	110	108	94	59	63	48	65.3	63.4	57.3	44.4
B.Com. III(Eng)	27	30	123	100	17	23	69	60	63.0	76.7	56.1	60
B.B.A. III	76	79	94	84	64	77	72	66	84.2	97.5	76.6	78.6
B.C.A. III	88	56	52	79	62	49	45	69	70.4	87.5	86.5	87.3
BCCA III	76	95	82	57	59	77	58	30	77.6	81.5	70.7	52.6
B. A. III	87	106	149	112	36	36	59	41	41.4	33.4	39.6	36.6
B. Tech. IV	14	18	11	17	13	17	10	14	92.9	94.4	90.9	82.4
B. Lib.	05	04	00	00	01	01	--	---	20.0	25.0	-----	---
<b>M. A. Final</b>												
Marathi	08	11	11	18	01	08	11	18	12.5	72.7	100	100
English	06	13	11	11	02	01	05	05	33.3	7.7	45.5	45.5
Economics	12	18	09	17	07	12	06	13	58.3	66.7	66.7	76.5
Sociology	25	10	17	24	08	02	12	21	32.0	20.0	70.6	87.5
Pol. Sci.	01	08	06	16	00	06	06	15	00	75.0	100	93.7
History	03	12	10	26	02	07	07	17	66.7	58.3	70	65.4



<b>M. Com. Final</b>	51	98	104	104	20	42	71	71	39.2	42.9	68.3	68.3
<b>M. Sc. Final</b>												
Chemistry	12	13	20	24	10	04	02	10	83.3	30.8	10	41.7
Electronics	02	02	05	12	00	01	03	07	00	50.0	60	58.3
Mathematics	10	13	08	12	02	00	00	04	20.0	00	00	33.3
Comp. Sci.	13	16	15	15	12	05	06	06	92.3	31.2	40	40
Physics	19	12	04	12	05	00	00	02	26.3	00	00	16.7
Zoology	06	05	06	10	04	04	05	05	66.7	80.0	83.3	50
Botany	04	02	06	06	02	00	00	00	50.0	00	00	00
Bio-Tech	02	01	00	03	02	01	--	02	100	100	---	66.7
Micro bio.	06	25	14	23	04	10	07	04	66.7	40.0	50	17
Biochemistry	01	00	00	01	01	---	---	00	100	---	---	00
Env. Sci.	04	02	16	15	04	02	12	10	100	100	75	66.7
<b>M. Lib.</b>	13	10	02	00	03	06	01	----	23.8	60.0	50	---
<b>M.Tech. (Cosmetics.)</b>	09	11	11	09	09	10	11	04	100	90.0	100	44.4
PGDCCA	21	14	12	07	09	11	09	06	42.9	78.6	75	85.7
PGDCSA	14	01	01	04	01	01	01	02	7.1	100	100	50
MCM	19	35	38	37	09	26	31	27	47.4	74.3	81.6	73.0
MCA Final	46	38	63	32	46	38	63	32	100	100	100	100
MBA Final	46	49	54	40	32	31	49	35	69.6	63.3	90.7	87.5

**Achievement of students, RTM, Nagpur University, Nagpur, Merit position**

Year	Name of Students	Class/ Subject	Merit Position	Marks obtain/Out of	Percentage
2012-13	1. Ms. Amruta G. Mirashe	BCCA	5 <sup>th</sup>	1312/1800	72.89%
	2. Ms. Pooja R. Taklikar	BCCA	6 <sup>th</sup>	1304/1800	72.44%
	3. Ms. Yogeshwari P Bhurley	BCA	4 <sup>th</sup>	1015/1550	65.48%
	4. Ms. Ruskar S. Khan	BCA	7 <sup>th</sup>	1002/1550	64.65%
	5. Mr. Dipak D. Matte	M. Com.	1 <sup>st</sup>	590/800	73.75%
	6. Ms. Nikita P. Thantharate	M. Com.	5 <sup>th</sup>	559/800	69.88%
	7. Mr. Kamlesh V. Chandekar	M. Sc. (Physics)	5 <sup>th</sup>	682/1000	68.20%
2013-14	1. Mr. Vilas M. Kamble	M. Lib.	2 <sup>nd</sup>	2826/3800	74.37%
	2. Ms. Harsha G. Vairagade	M. Lib.	3 <sup>rd</sup>	2749/3800	72.34%
	3. Ms. Radha S. Devikar	M. Com.	3 <sup>rd</sup>	1143/1600	71.44%
	4. Mr. Roshan E. Patharabe	M. Com.	8 <sup>th</sup>	1153/1600	72.06%
	5. Ms. Neha V. Ghorpade	B. C. A.	2 <sup>nd</sup>	1039/1550	67.03%
	6. Ms. Shabnam B. Ali	B. C. A.	9 <sup>th</sup>	976/1550	62.97%
	7. Ms. Trupti Keche	M. A. (Eco.)	2 <sup>nd</sup>		
	8. Ms. Vaishali Bhoyar	M. A. (Eco.)	4 <sup>th</sup>		





	9. Ku.Pratiksha Gillurkar	M. A. (Eco.)	5 <sup>th</sup>		
2014-15	1. Ms. Monika R. Gorpude	MCAPart II Sem II	5 <sup>th</sup>	3419/4500	75.98%
	2. Sonam R. Vaidya	M. Com. Sem IV	1 <sup>st</sup>	1275/1600	79.69%
	3. Ms. Shrutika A. Kapse	BCA	8 <sup>th</sup>	1062/1550	68.52%
	4. Ms. Neha V. Patel	B.Sc.	2 <sup>nd</sup>	1324/1550	85.42%
	5. Ms. Sonali S. Donarkar	M.A. (Eco.)	5 <sup>th</sup>	1000/1600	62.50%
	6. Ms. Snehal C. Dhapodkar	M. A. (Marathi)	9 <sup>th</sup>	1043/1600	65.19%



**Award/ Medal/ Cash prize**

Year	Name of Students	Class/ Subject	Medal/Award/ Cash Prize
2012-13	1. Neha V. Patel	B. Sc. Ist Year (PCM)	1. Radhabai Paonaskar Silver Medal By RTM Nag. University 2. Late Shree M. oreshwar Indurkar Memorial Silver Medal RTM Nag. University 3. Sir Arthur Blaner Hassett Memorial Silver Medal RTM Nag. University 4. Hari Fendic Prize RTM Nag. University 5. Narayan Mukund Paonaskar Prize RTM Nag. University 6. Shree Gowardhandas Harjiwandas Rawell First prize RTM Nag. University
2014-15	1. Ms. Sonali S. Donarkar	M. A. (Economics)	Gold Medal ( Subject: Labour) By RTM Nagpur University, Nagpur.

The college results are higher than the university results as far as U. G. is concern.



### 2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

- The college publishes the Academic Calendar every year well in advance, and it is uploaded on the college website and displayed on each floor of the college building, the girls 'common room, a faculty common room and on the notice board to enable the students to know well-in-advance the way programmes are going to be conducted.
- Regular teaching is done as per the time table which is prepared at the beginning of the academic year. Syllabus is covered as per the teaching plan prepared by the concerned faculty. The faculties maintain their Academic Diaries and signed by the Principal at the end of every month. The syllabus completion reports are submitted to the Principal by the faculties at the end of each semester/ year.
- Various extracurricular, co-curricular activities are organized regularly; as well as, personal counselling is done in the classes to get the intended learning outcomes. For the assessment of the student performance, summative and formative assessment approaches are followed to get the intended learning outcomes.
- The teaching, learning and assessment processes are reviewed by the management through the practice of Academic and Administrative Audit (AAA) by the peer team appointed by the management. This also helps to get the intended learning outcomes.
- Ethical and social values are nourished through cultural events, NSS, NCC, Social events and celebrating various days of National, Educational importance.
- IQAC and working committee monitor academic and co-curricular activities.
- **Roopa Pajankar Memorial cash prize** to the student of B. A. final scoring highest marks in Marathi Literature.
- Academic activities such as Expert lecturers, workshops, seminars, quiz etc. are organized.
- The intended learning outcome is accomplished through Teacher-student mentor scheme/remedial teaching, organizing study tours, field/Industrial visits etc.



**2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?**

The initiatives deployed by the college to enhance social and economic relevance as well as to enhance student learning are as follows:

- Positive thinking is nurtured through the activities of national integration, environmental awareness, cultural activities etc.
- The students are taken to the field visits to show them the social relevance of the subject.
- The activities like tree plantation, anti-superstition drive, conservation of nature, cleanliness campaign, AIDS awareness programme, Save the Baby Girls campaign, Anti-dowry movement, women's empowerment programmes, Save Energy Drive, etc are organized to show the social and economic relevance of the concerned subjects.
- The institution has set-up a Placement Cell for the students which tries to open the doors for getting employment in the various organizations. Competitive Examination Centre also guides the students to prepare for particular competitive examination.
- A separate Entrepreneurship Development Cell has been established to organize entrepreneurship awareness programmes for the students.
- Innovation and research aptitude is developed among the students by encouraging them to participate in seminars, workshops, conferences, project work ,visit to research institutes and industrial visits.
- Debating, essay writing, quiz competitions are organized for creative thinking.
- They are also motivated to write in the college annual magazine **Kamal Gandha** and quarterly college bulletin **Kamal Wani** to generate creativity and innovative aptitude.
- College runs COC Courses to make the student self employable.



- PG students are encouraged to present research papers in conferences/workshops/seminars/symposia etc.
- The eminent speakers are invited to address the students so that they will imbibe positive traits. Various functions are organized to nurture moral, ethical, religious, spiritual, social and cultural values.

#### **2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?**

The college has the following mechanism to analyze the shortfalls in achieving the expected learning outcomes and suggest improvement measures.

- Subject wise analysis of results and mark lists showing comparative performance of students in internal assessments/examinations are prepared.
- This data helps in understanding the areas of academic weaknesses of the student.
- This is followed by counselling the students to seek improvement.
- Overall results help in making efforts to make the teaching methods more learner-oriented.
- In case of poor performance in a specific subject, the concerned teacher is asked to undertake remedial measures.
- A feedback is also taken from the students on teaching of the curriculum, infrastructure, etc. through structured feedback forms and suggestion/complaint boxes.

#### **2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?**

Monitoring and ensuring the achievement of learning outcomes is done by undertaking the following measures:

- The college monitors the achievement of the learning outcomes through the analysis of the results of the college and university examinations.



- As soon as results are declared, each department analyses the results of their students.
- This analysis helps to decide in which subject/paper the students are lagging behind and need attention.
- Taking this analysis into consideration, the plans are prepared to overcome these shortcomings.
- In the beginning of the academic year, a timetable and an academic calendar are prepared.
- It is ensured that lectures are engaged by the staff as per the timetable, and they are recorded in academic diaries.
- The timetable committee, the Principal and IQAC monitor the execution of academic, co-curricular and extra-curricular activities and ensure the achievements of learning outcomes.

**2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If “yes” provide details on the process and cite a few examples.**

Yes,

- Monitoring the students’ progress is an integral part of the functioning of the college.
- A continuous assessment method is followed. Students are evaluated based on their home assignments, orals, class room presentations, laboratory and field work, performance in NSS, NCC, cultural and sports activities All these form part of their continuous assessment.
- Subject wise analysis of results and mark lists showing comparative performance of students in internal assessment examinations are prepared.
- This data helps in understanding academic weaknesses of the student.
- The student is counselled to seek improvement.



- The interpretation of the entire process is used to make the teaching methods more learners oriented.
- Their performance is assessed and feedback is communicated to the students immediately.
- The student with good academic performance is nominated as a representative on the students' council of the college.
- Meritorious Students are encouraged to appear for Joint Admission Test for M. Sc. (JAM) conducted by IIT



# **Criterion III:**

## **RESEARCH, CONSULTANCY**

### **AND EXTENSION**



## CRITERION III:

### RESEARCH, CONSULTANCY AND

### EXTENSION

#### 3.1. Promotion of Research

##### 3.1.1. Does the Institution have recognized research center of the affiliating University or any other agency/organization?

Yes. Research is an integral part of Kamla Nehru Mahavidyalaya, we have **Six** Research Centers which offer and enable students to pursue research at Post graduate and Doctoral onwards.

The institution has **06 research centers** for Ph. D. programme affiliated to Rashtrasant Tokadoji Maharaj Nagpur University, Nagpur

Sr. No.	Institution With Research Center	Programme
1	Commerce	Ph.D.
2	Chemistry	Ph.D.
3	Physics	Ph.D.
4	Mathematics	Ph.D.
5	Electronics	Ph.D.
6	Computer Science	Ph.D.

##### 3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the Institution has a research committee to monitor and address the issues concerning research.

The Structure and members of the Research Monitor Committee is as follows:

Sr. No.	Name of the Member	Designation
1.	Dr. Arvind K Shende	Coordinator
2.	Dr. W B Gurnule	Member
3.	Dr. Pradeep Dahikar	Member
4.	Dr. Suesh Puppulwar	Member
5.	Dr. Pradeep Butey	Member
6.	Dr. Sunita Gadegone	Member
7.	Prof. Vandana. Kharabe	Member





8.	Dr. Manjusha Borkar	Member
9.	Dr. Ashok Kamble	Member

Following recommendations have been made by the committee:

- a. Motivate and encourage the young faculty to initiate research projects in college.
- b. Strengthen the Student Research Project Scheme to encourage the student research.
- c. Identify potential researchers who are eligible for undertaking research.
- d. Distribute sufficient funds for research related equipment and book through schemes of financial assistance.
- e. Strengthen Central Instrumentation Facility and Instrument maintenance facility in the College.
- f. Organize workshops on Research methodology for imbibing research culture in the college.
- g. Promote an interdisciplinary approach in research activities.
- h. Encourage to send proposals for Major/ Minor Research project of funding agencies such as UGC, SERB, DST, DBT, CSIR, BRNS and other.
- i. Inspire teachers to undertake research leading to Ph.D. / M. Phil. and present research papers at national, international seminars and conferences.
- j. Encourage teachers to publish research articles in national and international journals of good repute.
- k. Promotion for generation of revenue through Consultancy and to take research findings to society.
- l. Monitor purchase and maintenance of equipment for central instrumentation facility.
- m. The status of seminars, workshops etc. and their progress was also evaluated for future programs.



These recommendations have resulted in:

- Student Research Project Scheme has been strengthened.
- Number of Research Publications and events of paper presentation in Conferences/ Seminars has increased.
- Substantial increase in proposal of major and minor research projects.



**3.1.3. What are the measures taken by the Institution to facilitate smooth progress and implementation of research schemes/ projects?**

- The principal investigator has full autonomy in deciding the research area, research methodology, choice of books and instruments/equipment etc., as per the rules of the funding agency for conducting the specific research project.
- The college administration ensures a timely release of funds to the principal investigator, received from the funding agencies. The college releases grants subject to the submission of the project report as per the rules laid down by the respective funding agencies.
- Adequate research space, infrastructure and human resource is available in the institute. It is readily accessible to the researcher. Additional infrastructural needs are fulfilled through the grants and financial resources available with the institution.
- A special leave to the teachers is granted for research work to be carried out at different recognized research centers and for attending workshops and conferences/ Seminars etc.
- The Research Monitoring Committee plays pivotal role in overall conduct of research activities in the college. All departments have sufficient number of computers and peripherals, which help the researcher to gain information and knowledge required in their respective areas of interest. Departments subscribe to national and international journals. The college is also a member of UGC-NLIST-INFLIBNET through which e-journals are made available.
- Audit of research project is being carried out by the Principal Investigator through certified Chartered Accountant and utilization certificates are submitted on time to the funding agency.

**3.1.4. What are the efforts made by the Institution in developing scientific temper and research culture and aptitude among students?**

The college works to spread knowledge unto the last and produce graduates with conceptual understanding, necessary skills for career building, sound reasoning and rational mind. In this view, all activities under the various committees of the institute are directed to develop systematic study of problems with an innovative mind. Attempts are made to empower, discourage blind faith and superstition etc.,



and develop awareness through scientific spirit to investigate the issues before accepting it. Following efforts have been taken to develop scientific temper, research culture and aptitude among students.

- In-house '**Student Research Project Competition**' is organized at undergraduate & postgraduate levels in Science, Arts and Commerce faculties. There has been active participation of students and teachers in Student Research Project Scheme (SRPS).
- Over years, there has been active participation of students in the university research Festival-Avishkar. The Research Advisory Committee monitors/encourages the participation of students by organizing interactive sessions with experts and providing teacher mentors.
- The students of the college are **encouraged to participate in the International, National and State level seminars, conferences** etc.
- A large number of students have taken benefit of **concession in registration fee** for attending the conferences organized at the college. No registration fee is charged for the students for Conference hosted by the institution.
- Teachers are **encouraged to participate in summer school programmes** organized by reputed institutes such as HRD Centre, RTM Nagpur University
- The college has been supporting research for students through various co-curricular activities. Through these activities the college provides financial and infrastructural support to the students to do **research projects of short duration**. The research projects give hands on experience to students on 'how to do research'.
- Every department organizes the departmental activities which provide a platform to the students to exhibit their talents and skills. The science exhibition consisting of innovative scientific models and posters help in nurturing the scientific temper.
- Every year, various departments of the college, **organizes study tours/visits** to reputed industries and laboratories to give the exposure to the students for getting an idea about recent developments, trends in research and the application of their subject in the real world.



- The Social Science, Commerce and Science Study Circles organize awareness rallies and exhibition of innovative scientific models and posters, PPT Presentation, etc. This exhibition is kept open for all college students.

**3.1.5. Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.**

Kamla Nehru Mahavidyalaya has ensured that every teacher remains active in research including the new incumbents. To ensure that teachers remain in active research, following initiatives have been taken:

All teachers are encouraged to guide Student Research Project. The involvement of teachers in active research is reflected in the following research outcomes:

Sr. No	Description	Statistics
1	Recognized Ph.D. research guides	11
2	Teachers involved in Major Research Project	03
3	Teachers involved in Minor Research Project	09
4	Teachers pursuing Ph. D.	05
5	Total Book Publication	114
6	Total Publication in International Journal	297
7	Total Publication in National Journal	74
8	Total Publication in Conference proceedings	131
9	Total Publication in Peer Reviewed	366
10	Total Publication in Index Journal	188
11	Total Research Publication with Citation	1030
12	Total Publication in e-Journal	26
13	Total Publication in h-index	24
14	Total Publication in i10 index	30
15	Average Impact factor of all Faculties	1.25

Sr N	Name of Supervisors	Total Students registered	PhD Ongoing	Ph.D Submitted	Ph.D Awarded
1	Dr. Arvind K Shende	20	08	01	11
2	Dr. Bharat Meghe	46	03	03	40
3	Dr. Pradeep Butey	12	03	02	07
4	Dr. Pradeep Dahikar	18	06	02	10
5	Dr. W B Gurnule	22	07	02	13
6	Dr. S P Puppulwar	04	02	01	01
7	Dr. D S Badwaik	04	04		
8	Dr. Sunita Gadegone	07	03	03	01



9	Dr. Sandhya Jain	01	01		
	<b>Total</b>	<b>134</b>	<b>37</b>	<b>14</b>	<b>83</b>

❖ **Name of Supervisors : Dr. Arvind Shende(Principal)**

Sr. No	Name of Research Students	Research Period	Title of Research
1	Mr. Yadao Shambarkar	Three Year	Maharashtra sarkar chya kapus kharedi yojna che vitya vishleshanatmak adhyan
2	Mr. Gyaneshwar Khadse	Three Year	Amravati Mahanagar palika chya arthik stisti che adhyan 2004-2007
3	Mr. Dattatrya Wazarkar	Five Year	Nagpur vibagatil nagri sahkari adhikosha chya vitya stithi che adhyan 2003-2010
4	Mr. Manoj Telrandhe	Five Year	Bhandara jilyatil nagarpalika chya vitya prashashanacha vishleshanatmak abhyas 2005-2010
5	Mr. Arun Lokhande	Four Year	Gadchiroli v Chandrapur jilhyatil nagar parishada cha tulnatmak abhyas 2001-2012
6	Mrs. Jaymala Ramteke	Three Year	Akola jilhyatil multi state schedule urban cooperative banka chya vitya stithi che adhyan
7	Ku. Mona Mehta	Two Year	Understanding the impact of the buying behavior of women in malls at Mumbai
8	Ku. Bhagyashree Kapse	Four Year	Decision Dynamics & Job Satisfaction of female Gazetted Officer in the Service of the Government of Maharashtra
9	Mr. Ramesh Gan	Four Year	Visarbhatil Santra utapadana che vitaran v shetkara chya samasya – e adhyan
10	Mr. Rajesh Mulchand Bansod	Four Years	Gondia Jilyatil Nagarpalikanachya Vitya Prashnacha Vishleshanatmak Abhayas
11	Mr. Ninad Kashikar	Five Years	A Study of Personal Advances provided by the State Bank of India and Its Impact on Urban Borrowers of Nagpur Region

❖ **Name of Supervisors : Dr. Bharat Meghe (Department of Commerce)**

Sr. No	Name of Research Students	Research Period	Title of Research
1	Mr. T Chenna Kesavalu	Three Year	Labour Welfare Measures in Cement industry of Andhra Pradesh (With reference to factorize act of 1948 from 1990-91 to 2000-2001)
2	Shri. Chandrabharm Balkrishna Bhojar	Four Year	A Analytical Study of Maharashtra Labour Welfare Board's Work ( Ref: Nagpur City 1990-2000)
3	Shri. Sanjaykumar Deaodatta Ramteke	Five Year	Critical Evaluation of Impact of Internet Services on Business World in Nagpur
4	Shri Baburao Bakaramji	Three	A Analytical Study of The contribution of



	Kalpande	Year	Mahila Urban Co-operative Bank in the Development of Nagpur Districts Women Business (1990 to 2000)
5	Shri Sanjay Sahebrao Tekade	Three Year	Nagpur Jilhyatil Soyabin Utpadak Shetkrya cha arthik, Samajik stiticha v utpadan samasyeche vishlkanatmak Adhyaan (1990-91-1999-2000)
6	Shri G Narasimha Rao	Five Year	A Study of Human Resources Development Climate in vijaywada Thermal Power Station
7	Shri Satish Pundlikrao Dudure	Four Year	A Analytical Study of Forest Labour in Wardha District
8	Shri V V Ratnajirao Chowdhary	Four Year	“ Impact of Financial Reforms on the Performance of State Financial Corporation a Case Study of the Turn Around of Andhra Pradesh State Financial Corporation ( During the Period of Study from 1989-2004)
9	Shri Umaji Anandrao Hire	Six Year	Chandrapur Jilhyatil Krushimal vipananat Krushi Utpanna Bajar Samitiche Yogadan Ek Adhayaan (1993-94 to 2003-2004)
10	Shri Rajendra Chandrashekher	Three Year	A Study of Social Security Schemes and labour welfare measures in cement industry of Andhra Pradesh ( With reference to Welfare safety, Health and social security from 1997-98 to 2006-07)
11	Smt Abha Sunil Khandelwal	Four and half Year	Analysis of Trust Management e-Commerce among college going student in Nagpur region ( 2002-2003 to 2006-2007)
12	Shri Shankar Babu Bayana	Four Year	A Study of Financing of Paper Industry in India ( 1995-1996 to 2005-2006)
13	Ku. Rekha Babaji Meshram	Five Year	Ekatmik Balvikas Yojana Antargat Chandrapur jilhyatil labharthinha zhalela Arthik va Samajik labha –Ek Abhyasa ( 1991-2004 )
14	Shri Tishar V. Chaudhary	Three Year	Analysis of Human Resource Management in Nagpur Municipal Corporation (1995-96 to 2005-06)
15	Shri Pramod Kothiwale	Seven Year	Nagpur Jilhyatil Alapabhudharak Shetakaryanche Arthik Mulyankan
16	Mrs. Nayana W. Gurnule	Three Year	Socio-Economic Study of Cotton Growing Farmers In vidharbha Region (1996-97 to 2006-07)
17	Shri U. T. Kamble	Four Year	Gadchiroli Jilyatil Vikasakarita Nabard Dware Lalmat Aslelya Vitta Purvathyache Adhayaan ( Establishment to 2006)
18	Mr. M. Vankateshwara Rao	Three Year	A Study on online Banking service with reference to ICICI HDFC and AXIS Banks ( During the period of 1995-2005)
19	Mr. Yalamanchili Kishore Kumar	Five Year	Labour Welfare Measures in Steel Industry of Andhrapradesh



20	Mr. Benzwada Ramaiah	Four Year	A Study on marketing of Banking services of state Bank of India in Andhra Pradesh 1996-2006.
21	Mr. Kailash Arjun Kalyani	Five year	A Critical Evaluation of Control system in Central Government offices with special reference to Directorate GERAL of Mines safety western Zone Nagpur (Period 1995-2005);
22	Ku. Chandani Ramesh Sabnani	Three and half Year	Analytical Study of Personal Loan in Nationlised Bank ( State Banking India) 1997-2006.
23	Shri Pravin Vijayrao Bhise	Five Year	A study of management and leadership efficiency of management institute in Maharashtra.( With special reference to management insitutte in the RTM Nagpur University Areas 1995-2005).
24	Shri Ravindra Dnyanobaji Gharpure	Five Year	Analysing Issues of Information Security in Business Management and Designing the Strategies for Enhancement of Information Security in Information Technology : IT Governance
25	Shri Dilip Ramji Barhate	Four Year	Vidharbhatil Kapus Utpadak Shetkaryanchi Arthik Sthiti Tyanchya samsya ani shasnachi bhumika: Ek Adyayan( 1998-99 to 2009-10)
26	Shri Avinash Sharad Vaidya	Six Year	A Critical Study of the Working of Mutual Funds Company ( Asset Management Companies –AMC’s ) Operpating in the Vidharbha Region of Maharashtra State for the Period ( 1997-2007)
27	Ku. Shashi P Wadkatkar	Four Year	Socio-Economic Study of Lady Maid Servants of Pune City ( 1997-2007)
28	Shri Pattan Mehaboob Subani	Three Year	A Study of the Problem of Power Consumer of Southern Power Distribution Co. Ltd. Of Andhra Pradesh ( With special reference to Guntur District during the Period of 2000-2010)
29	Shri Shamsudin Sayadsaheb Naikwadi	Four Year	Study of Housing and Housing Finance in the Metro Politan Cities of Maharashtra with special reference to Mumbai and Mumbai Suburban 2001-2010.
30	Ms. Vidya Arun Nakhate	Four year	Comparative Study of Marketing in Chronic Therapy Segment by Pharmaceutical Industry in Maharashtra( Ref. 2001-2010)
31	Mr. Dilip S. Dabade	Five Year	Socio-Economic study of Farmers in Wardha district with respect to Irrigation project
32	Mrs. Sonali P. Yende	Four Year	Young generation brand knowledge preference and equity with special reference of food itmes in Nagpur Region
33	Mr. Nandkumar M. Khanchane	Five Year	Study of effect of open sources software implementation on reduction in total cost of ownership with special reference to small IT



			companies and IT education institutes in Pune IT Hub
34	Shri Rahul Vijay Mohare	Four Year	A critical study of current perspective, theories and practices of mobile learning : Indian landscape( With special reference to management education)
35	Shri Parag Thakre	Five Year	A study of Emergence of corporate retailer and its impact on consumers and consumerism.
36	Ku. Renu Suresh Ingle	Three Year	A Financial analysis of micro enterprises self up by below poverty line Rural women Entrepreneur of Nagpur district.
37	Shri Dharendra Kumar	Five Year	A study of marketing of pension product in Maharashtra
38	Shri Ravindra Mohture	Five Year	Bhandara and Gondia jilhyachya vikasat sahkari kshetrachi bhumika chikitsak abhyas
39	Ku. Priya Gedam	Four Year	Role and contribution of foreign investment in industrial development of Maharashtra state.
40	Shri Rajesh Mahajan	Five Year	Prospective analysis of current trends in banking industry with reference to digital banking in Nagpur.

❖ **Name of Supervisors: Dr. P. K. Butey(Department of Computer Science)**

Sr. No	Name of Research Students	Research Period	Title of Research
1	Shri. Deepak D. Shudhalwar	13/01/2011 to 12/05/2014 (Awarded)	Study for the estimation of component based software reliability with fault dependent models using artificial Neural network techniques.
2	Shri. Pankaj V. Nimbalkar	13/01/2012 to 17/01/2014 (Awarded)	Analysis of machine translating algorithms using Natural language processing techniques
3	Smt. Prajakta S. Ratnaparkhi	13/01/2012 to 02/03/2015 (Awarded)	Smart decision making using Fuzzy logic for knowledge management system
4	Smt. Aruna J. Chamatkar	12/01/2012 to 27/05/2015 (Awarded)	A study of Data mining techniques using Neural Network
5	Ms. Shweta D. Meshram	15/02/2012 to 18/05/2015 (Awarded)	Genetic Algorithms for large Database followed by query Optimization
6	Shri Ram K. Nawasalkar	15/01/2012 to Jan 2016 (Awarded)	Recognition and Evaluation of Feeling based Music on Mobile Devices platform
7	Ku. Deepti V. Patange	15/07/2012 to Dec 2016 (Awarded)	Implementation of Web usage mining techniques to investigate behavior and crime patterns of the web users
8	Mr. Pravin Y. Karmore	27/07/2010 to 20/07/2016(S	Analysis and Modeling of testing Approaches for the Heterogeneous





		ubmitted)	DESIGNS OF Embedded system
9	Mrs. Radha A. Pimpale	13/01/2012 to 04/01/2017(S ubmitted)	Optimization through nature inspired algorithms for clustering
10	Mr. V. N. Sarat Kumar. C	08/01/2015 to till date (Working)	Dynamics of IT GRC
11	Mr. PravinKuthe	18/01/2017 to till date (Working)	Comparative study of tools and techniques in Data Mining
12	Ms. Monali S. Kawalkar	17/05/2014 to till date (Working)	Analysis of Computer Security Vulnerabilities in Web Applications

❖ Name of Supervisors: **Dr. P B. Dahikar**(Department of Electronics)

Sr. No	Name of Research Students	Research Period	Title of Research
1	Mr Kamlesh S Patle	Ph D Cell/RRC/2020 13/01/2014	Design of an Instrumentation for weighing system using wireless Sensors Network
2	Mrs. Bindo Xavier	Ph D Cell/RRC/2005 11/01/2013	A Novel Approach Towards the Implementation of A patient Monitoring system Using soft computing Techniques.
3	Smt Surekha S Kohle	Ph D Cell/RRC/1582 31/12/2013	Developing a Transportation Information System (TIS) Using GPS and SMS Infrastructure
4	Mr.Kishor Y. Rokde	No. Ph.D Cell)/RRC/ 111708/07/2014	Design and Development of an Embedded System for Monitoring Different Parameters of Patients using WirelessTechnology
5	Mr.Umesh D. Tirbude	No. Ph.D. Cell)/RRC/ 111508/07/2014	Study and Design of Brain Computer Interaction System for Controlling Electronic Equipments
6	Smt. Anuja Abhijit. Deshpande	No. Ph.D. (Cell)/RRC/1108 15.03.2014	Analysis of interactive image segmentation techniques on various images
7	Mr. Pravin M. Sontakke	Ph.D. (Cell)/RRC/1107 13.01.2014	Design & Development of Wireless Interfaces for the Multiphysiological Parameter Patient Monitoring System
8	Mr. Sagar Shende	13.01.2014	Designing and development of low cost surgical diathermy machine with wireless monitoring system.
9	Mr. Suresh Ghatole	13.01.2014	Design and development of an autonomous health care system based on wireless body area network.
10	Dr. Ashish Rewatkar	14/01/2009 (Recently Awarded)	Development of Luminescence instrumentation using embedded techniques.



❖ **Dr. S. M. Gadegone**(Department of Chemistry)

Sr. No	Name of Research Students	Research Period	Title of Research
1	Ashwini Barve	13/09/2013 thesis submitted	Synthesis and Characterization of Metal oxide based Nanocomposite Materials
2	Vandana Giratkar	13/3/14 till date	Ultrasonic and Volumetric Investigations of Interaction of some Biologically active molecules with Inorganic salts in aq medium at different temperature.
3	Shardul Kulkarni	13/9/13 thesis submitted	Quantification of Dopa and B Sitosterol from some medicinal plants using different analytical techniques.
4	Nitin Vilayatkar	Awarded Notification date 26th July 2016	Comparative study of some newly activated carbon and polymer resin with special reference to removal of toxic metals from contaminated water
5	Shubhangi Narde	8/5/13 till date	Synthesis of Nanocomposite materials and structural characterizations
6	Shaukar Shah	13/1/14 thesis submitted	Ultrasonic investigations of Bonding and non bonding molecular interactions of Bio molecular units in Organic solvents and aqueous medium
7	Hanuman Yadav	10/1/13 till date	Synthesis and study of Fulgenic acid and itaconic acid by Stobbe condensation using greener methods.

❖ **Dr. W. B. Gurnule**(Department of Chemistry)

Sr. NO	Name of Research Students	Research Period	Title of Research
1	Dr. S. S. Rahangdale	Awarded	Synthetic and structural studies of some new polymers derived from 2, 4-dihydroxyacetophenone/biphenol and some biuret/dithioamide with formaldehyde in different molar proportions.
2	Dr. R. N. Singru	Awarded	Physico-chemical and electrical conductance studies of terpolymers derived from 8-hydroxyquinoline-5-sulphonic acid/ cresol and oxamide/melamine with formaldehyde
3	Dr. M. V. Tarase	Awarded	Synthesis, characterisation and ion-exchange properties of terpolymer resins derived from 2, 4-dihydroxybenzaldehyde/ 2, 4-dihydroxypropiophenone/substituted phenol, oxamide/ biuret and formaldehyde
4	Dr. Mrs. S. S. Katkamwar	Awarded	Physico-chemical and ion-exchange studies of copolymers derived from nitro-substituted phenols/cresols/8-hydroxy quinoline/phenols and dithioamide with formaldehyde
5	Dr. R. H. Gupta	Awarded	Synthesis and characterization of new terpolymer resins and their application as ion



			exchangers
6	Dr. S. S. Butoliya	Awarded	Physico-chemical studies on some newly synthesized tercopolymer resins derived from 2,4-dihydroxybenzoic acid/ 2,4-dihydroxybenzophenone and oxamide/melamine with formaldehyde
7	Miss Deepti Patle	Awarded	Synthesis, characterization and analytical applications of some new copolymer resins
8	Mr. M. B. Thakre	Awarded	Synthetic and structural studies of newly synthesized terpolymer resins and their ion exchange properties
9	Miss Sonali P. Dhote	Awarded	Synthesis, characterization and ion exchange properties of some new copolymer resins.
10	Ku. Meghna H. Jumde	Registered 2013-to till date	Separation and Identification Study of Different Toxic Metal Ions by Thin Layer Chromatography in Environmental Samples
11	Ku. Charulata Makde	Thesis Submitted	An Ecofriendly synthesis, characterization, Morphology, Thermal, Electrical, Luminescence and Chelation ion Exchange Properties of Copolymer Resins
12	Mr. S. K. Mandavgade	Awarded	Synthesis of Mew tercopolymer Resins and Their Application in the Removal of Heavy Metals.
13	Mr. K. A. Nandekar	Awarded	Synthesis and Characterization of Some New Organic Copolymers and Its Biological Applications
14	Ku. Jyotsna V. Khobragade	Awarded	Synthesis and Characterization of New Organic Copolymers and Their Antibacterial Studies
15	Mr. Manish M. Yeole	Submitted	Novel Polymeric Resins for Removal of Fe(III), Cu(II), Cd(II), Mn(II), Pb(II), Co(II), and Ni(II) Ions from Aqueous Solution
16	Ku. Vaishali R. Bisen	Awarded	Sorption investigation on the removal of metal ion from aqueous solution using chelating copolymer resins
17	Ku. Rani Mankar	Registered	Investigation the Effect of Nanoparticles on Styrene Butadiene Rubber for Enhancement of Rubber Properties
18	Mr. Rajesh Mahant	Registered	Synthesis, Characterization, Curing And Thermal Studies Of Chemically Modified Epoxy Resins
19	Dinesh D. Kamdi	Registered	Synthesis, characterization of Copolymer resins and its composite for the removal of Heavy Metals and Thermal Degradation Kinetics
20	Mr. Narayan C. Das	Registered	Physico-chemical Properties of some Organic Copolymer Resins and Their Applications.
21	Ku. Chetana G. Kohad	Registered	Synthesis, Spectral, Morphology, Thermal Degradation Kinetics and Luminescent



			Properties of copolymer metal Complexes
22	Mr. Santosh Chakole	Registered	Synthesis of Organic copolymer and their Luminescent Properties

❖ **Dr. S. P. Puppalar**(Department of Physics)

Sr No	Name of Research Students	Research Period	Title of Research
1	Ms. Priti Deshmukh	No. Ph.D. (Cell)/RRC/1451 07/08/2013 Dec. 2016 (Awarded)	Synthesis and characterization of some bromide based phosphors
2	Mr. Mukesh Mendhe	No. Ph.D. (Cell)/RRC/1446 24/01/2013. Feb 2017 (submitted)	Study of energy transfer processes in aluminates based phosphors.
3	Mrs. Prachi Dhabale	No. Ph.D. (Cell)/RRC/1429 24 /01/2013.	Luminescence properties of triple mixed sulphate based phosphors.
4	Mrs. Pragati P. Bhure	No. Ph.D. (Cell)/RRC/1563 19/07/2014.	Study of photoluminescence and thermoluminescence properties of ortho silicate phosphors and their applications.

❖ **Dr. D. S. Badwaik**(Department of Physics)

Sr. No	Name of Research Students	Research Period	Title of Research
1	Mr. Vijay V. Warhate	No. Ph.D. (Cell)/RRC/532 Dated 18/6/2014	“Compositional Dependence of Electric and Magnetic Properties of TiCo Substituted Y- Type Strontium nano Hexa Ferrites”
2	Ms. Pushpalata S. Hedaoo	No. Ph.D. (Cell)/RRC/Sci/May-2016/1053 Dated 17/6/2016	Compositional Dependence Morphological, Magnetic and Dielectric Behaviour of Nanostructured Ferrites ”
3	Mr. Sumit S. Pakhare	No. Ph.D. (Cell)/RRC/Sci/January-2017/2381 Dated 2/3/2017	“Some Studies in Nonlinear Dynamical Systems”
4	Ms. Prachi S. Chopade	No. Ph.D. (Cell)/RRC/Sci/January-2017/2381 Dated 2/3/2017	“ Thermoacoustic and Spectroscopic Characterization of Nanofluids and Their Applications”

❖ **Name of Supervisors: Dr S. S. Jain**(Department of English )

Sr. No	Name of Research Students	Research Period	Title of Research
1	Humendra Khandekar	Two Years	Magic Realism in the Novels of Tony Morrison and Sulman Rushdi



**3.1.6. Give details of workshops/ training programmes/ sensitization programmes conducted/organized by the Institution with focus on capacity building in terms of research and imbining research culture among the staff and students.**

Almost all departments of the College have organized seminars/workshops/invited/lectures/sensitization programs in order to inculcate research culture among the staff and students. The **Student Research Project Scheme** provides special boost to encourage the research at the student level. The teachers were promoted to take up Research Projects through the funds made available by various funding agencies. The details of the workshops/ training programmes/ sensitization programmes conducted/ organized for students and staff are given below:

❖ **Arts Faculty**

Sr. No	Date	Workshops/Seminars	Level	No. of Participants
1	07-15/02/2017	Book Reading Project	College Level	100
2	30-17/04/2017	Modilipi Certificate Course	College Level	40
3	14/09/2016	Faculty Development Program	College level	38
4	13/01/2016	Personality Development Program	College Level	45
5	16/2/2016 to 22/2/16	Shuddha lekhanache workshop	College level	53
6	22-27/07/2016	Library Orientation Program	College Level	190
7	19-21/12/2015	Communication Skill	College Level	210

**Department of Botany**

Sr. No	Date	Workshops/Seminars	Level	No. of Participants
1	27/3/2015	Workshop on Biofertilizer & Biopesticides for rural Development	Intercollegiate	70
2	18/02/16	Workshop on Preparation of Herbal Products by plants	College	45
3	1/2/2016 to 1/3/2016	One month certificate course on methods and techniques for material preservation and slide preparation	College	29



**Department of Chemistry**

Sr. No	Date	Workshops/Seminars	Level	No. of Participants
1	26 July 2016- 04 Sept 2016	Certificate course in Bioinformatics, Cheminformatics & statistics	College	50
2	18 <sup>th</sup> March 2016	Oral presentation Competition	Intercollegiate	29
3	2 <sup>nd</sup> April 2016 to 7 <sup>th</sup> April 2016	Workshop on Basic Techniques in Plant Biotechnology and Phytochemistry	Intercollegiate	48
4	17-18 March 2017	DST sponsored National Conference on Multifunctional Advanced Materials	National	16 (oral) 65 (Poster) 276 Participants

**Department of Physics**

Sr. No	Date	Workshops/Seminars	Level	No. of Participants
1	14 <sup>th</sup> sept.2013	CSIR sponsored National conference on "Current Developments in Nanoscience: Challenges and Opportunities	National	200

**Department of Biotechnology**

Sr. No	Date	Workshop/Seminars	Level	No. of Participants
1.	27/3/2015	Workshop organized on "Biofertilizer and Biopesticide" for rural development	University	250
2.	2/4/2016-7/4/2016	Basic techniques of Plant Biotechnology and Phytochemistry" in collaboration with Central Institute for cotton research.	University	40 + 11 faculty
3.		Basics of Bioinformatics Chemoinformatics and Biostatistics	College students	35



**Department of Microbiology**

Sr. No	Date	Workshops/Seminars	Level	No. of Participants
1	15/02/2017 to 01/03/2017	Certificate Course in Medical Technology	College	121

**Department of Electronics**

S N	Activity	Date	Level	No. of Participants
1.	2013-14	UGC Sponsored, Computer Hardware Maintenance	College Level	28
2.	2014-15	UGC Sponsored, Computer Hardware Maintenance	College Level	26
3.	2015-16	UGC Sponsored, Computer Hardware Maintenance	College Level	40
4.	2016-17	UGC Sponsored, Computer Hardware Maintenance	College Level	28
5.	2013 (2 Months duration)	Microcontroller Based Embedded System Design (PG students)	Departmental level	12
6.	2014 (2 Months duration)	PCB design (PG students)	Departmental level	10

**MBA Department**

Sr. No	Date	Workshops/Seminars	Level	No. of Participants
1	9 <sup>th</sup> Feb 2013	Role of Aptitude in Management	College level	100
2	23 <sup>rd</sup> Feb 2013	Seminar on Banking	College level	90
3	15 <sup>th</sup> Mar 2013	Seminar on Cyber Security	College level	70
4	9 <sup>th</sup> April 2013	SEBI Sponsored Seminar on Financial Education	College level	75
5	10 <sup>th</sup> April 2013	Seminar on Aptitude Development	College level	110
6	21 <sup>st</sup> Sept 2013	Seminar on Presentation skills	College level	80
7	27 <sup>th</sup> Sept	Seminar on Self	College level	75



	2013	Analysis		
8	18 <sup>th</sup> Oct 2013	BSE Sponsored seminar on MSME in association with WRC-ICSI (Institute of Company Secretary)	College level	90
9	22 <sup>nd</sup> Feb 2014	SEBI sponsored Seminar on Financial Education	College level	65
10	1 <sup>st</sup> Mar 2014	“English Made Easy”	College level	70
11	6 <sup>th</sup> Mar 2014	Expectation Management and how to prepare for getting a good Placements.	College level	80
12	23 <sup>rd</sup> Aug 2014	Seminar on Goal Setting	College level	80
13	24 <sup>th</sup> Aug 2014	Seminar on Soft Skills	College level	110
14	13 <sup>th</sup> Sept 2014	Seminar on Goal setting	College level	90
15	13 <sup>th</sup> Mar 2015	Seminar on Goal Setting	College level	80
16	14 <sup>th</sup> Mar 2015	Seminar on Budget Analysis-2015	College level	75
17	6 <sup>th</sup> Aug 2016	Why MBA? Industry Expectations From MBA's, Skill set required for a successful management career Speaker	College level	90
18	11 <sup>th</sup> April 2015	Improving English Speaking & Writing Skills	College level	40
19	11 <sup>th</sup> Mar 2016	Economic aspects of Budget	College level	45

**3.1.7. Provide details of prioritized research areas and the expertise available with the Institution.**

The college faculty who have obtained their Ph.D. and fulfill required criteria to be a research supervisor are providing guidance to research students in the University as well as at the research centre.





**Department of Commerce**

Sr. No	Name of the faculty	Research area and details of the expertise
1	Dr. A. K. Shende	Auditing and Taxation
2	Dr. Bharat Meghe	Business Economics and Management

**Department Of Physics**

Sr. No	Name of the faculty	Research area and details of the expertise
1	Dr. V. R. Kharabe	Photo Luminescence
2	Dr. S. A. Bhagat	Photo Luminescence , Crystallography
3	Dr. S.P. Pappulwar	Photo Luminescence, Thermo Luminescence, Dosimetry
4	Dr. D.S. Badwaik	Nanoferrites, conducting polymers

**Department of Chemistry**

Sr. No	Department	Research area and details of the expertise
1	Dr. S. M. Gadegone	Polymers synthesis applications properties, Ultrasonic studies of different materials
2	Dr. W. B. Gurnule	Nanomaterials, SBR nanocomposite materials, Semiconducting materials, Ion-exchange resins, Biodegradable polymers, Conducting polymers, TLC and Epoxy resins
3	Dr. M. S. Wagh	Acoustical thermodynamic properties of organic compounds and solvents. Also the effect of such compounds on Biological parameters.

**Department of Computer Science**

Sr. No	Department	Research area and details of the expertise
1	Dr. P. K. Butey	Fuzzy Logic, Neural Network, Data Mining

**Department of Biochemistry**

S N	Department	Research area and details of the expertise
1	Dr. N. Krishnamurthy	Clinical Biochemistry

**Department of Biotechnology**

S N	Department	Research area and details of the expertise
1	Dr. S.R. Moghe	Plant Biotechnology, Tissue culture and transformation
2	Dr. S.L. Tiwari	Environment Genomics & remediation



**Department of Electronics**

SN	Department	Research area and details of the expertise
1	Dr. P. B. Dahikar	Biomedical Instrumentation, Embedded System, Luminescence,
2	Mr. P. M. Sontakke	Nanotechnology and nanoscience, biomedical Instrumentation, Embedded system
3	Dr. Ashish Rewatkar	Luminescence, Biomedical Instrumentation, Embedded system.

**Department of Microbiology**

SN	Department	Research area and details of the expertise
1	Dr. A Chandak	Antimicrobial Testing

**MBA Department**

SN	Department	Research area and details of the expertise
1	Prof. Nitin Shrigiriwar	Marketing Management
2	Prof. Neha Bhandari Wasalwar	Human Resource Management & Marketing
3	Prof. Vishakha Hade Dhawangale	Human Resource Management & Marketing
4	Prof. Chaitanya A. Sakhare	Marketing Management & Finance Management

**3.1.8. Enumerate the efforts of the Department in attracting researchers of eminence to visit the campus and interact with teachers and Students?**

Kamla Nehru Mahavidyalaya has a keen interest in facilitating the intellectual – academic interaction and takes initiatives in organizing various National / International/State / University / District / Local level workshops / seminars /conferences and interactive sessions. With this intention, college plans a road map for various conferences to be organized during the year, with due consideration to all the streams on the campus. Famous personalities are invited either on the occasion of such conferences or for guest lecturers or other events on the campus for interaction with the students and teachers.

There have been eminent researchers visiting the college include Scientists from India and abroad, Professors of leading universities, Vice Chancellors and Former Vice Chancellors. The college organizes



lecture series, panel discussion, workshops and interactive sessions with eminent researchers.

The details are as under:

Title of the Seminar/ Conference/ Program	Name of Scientist/ Participants	Department/Institution
<b>Department of Mathematics</b>		
A National Conference on Frontiers of Mathematics on 22 <sup>nd</sup> March 2013 Organised by Department of mathematics	Dr .K.C. Deshmukh	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Ravi Saraykar	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Pradeep Siddheshwar	Banglore University
	Dr. Abhijit Lahiri	Jadhavpur University
	Dr. Kishor Adhav	SGB Amravati University.
<b>Department of Political Science</b>		
National level seminar on “An autonomy of media and politics”, held in Kamla Nehru Mahavidyalaya, on 15 <sup>th</sup> Sept 2014	Dr. Jogendra Gavai	Head, Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Mohan Kashikar	Professor, , Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Jain	Head, Dept. of Political Science, Atal Bihari Vajpai college, Indore
	Dr. Alka Deshmukh	Chair person, Board of studies, RTM Nagpur University Nagpur.
Orientation Program on “Political Science’s UG /PG Syllabus and current Political Environment & Emerging Career Opportunities”, held on 28 Sept 2016	Dr. Sangita Meshram	Dean, Social Science, RTM Nagpur University, Nagpur.
	Dr. Mohan Kashikar	Professor, , Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Jogendra Gavai	Ex Head, Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Ashish Lal	Director, MIT School of Govt. Pune.
	Dr. Ashish Kelkar	Professor, MIT School of Govt. Pune.
	Dr. Ashok Kale	Ex Principal, J. M. Patel College, Sakoli
	Dr. Alka Deshmukh	Professor & Head, Dept. of Political Science, S. B. City



		College, Nagpur
<b>Department of Zoology</b>		
Guest Lecture on “Ways of tiger” on 23 <sup>rd</sup> Feb 2017.	Dr. A. N. Lonkar	Head & Associate Professor, NAMW college, Umrer.
<b>Department of Electronics</b>		
National Conference on “Advanced Multifunctional Materials”, held on 17 & 18 March 2017.	Dr. Navinchandra G. Shimpi	Department of Chemistry, Tilak Bhavan, University of Mumbai.
	Dr. B. Shreedhar	CSZR-IICT, Hyderabad
	Prof. N. S. Gajbhiye	IIT-Kanpur, Ex-VC, of Central University, Sagar
National Conference on, Biomedical Instrumentation related Hardware and Software, held on 04 <sup>th</sup> Feb 2017.	Dr. Vidyasagar Rao	Pro-Vice Chancellor, SRT Nanded University, Nanded.
	Dr. Basant. Tiwari	Department of Electronics, Bhopal University, Bhopal
	Dr. S. J. Sharma	Department of Electronics, RTM Nagpur University, Nagpur
	Dr. Arvind Shaligram	Department of Electronics, Savitribai Phule Pune University, Pune.
Inauguration of Science study Circle- 2015-16	Dr. Gourish M. Naik	Head, Department of Electronics, Goa University, Goa
	Dr. Nilesh Meshram	Head, Department of Electronics, SM Mohata Science College, Nagpur.
Expert / Guest Lectures	Mr. Sameer P. Chaure	Manager, Prolific Systems and Technology Pvt. Ltd.
	Umesh B. Tirbude	Junior Engineer, BSNL, Nagpur
	Dr. Ajay Sharma	Department of Physics, Nabira Mahavidyalaya, Katol.
	Dr. Amrut Lanje	Head, Department of Electronics, Dr. Ambedkar College, Chandrapur
	Dr. Bhanddakar	Department of Electronics, Anand Niketan College, Warora.
<b>Department of History</b>		
Guest Lecture on topic, “ Role of Women in Freedom fight” held on 10 <sup>th</sup> Aug. 2013	Dr. Sangita Meshram	Associate Professor, , Department of History, RTM Nagpur University Nagpur.



Guest Lecture on topic," Contribution of Revolutioners" held on 18 <sup>th</sup> Sept 2014	Dr. Shubha Johari	Head, Department of History, RTM Nagpur University Nagpur.
National Conference on " Role of women in Indian freedom struggle" held on 17 Sept. 2014	Dr. Mishra	Ex- head, Dept. of History, Bhopal University, Bhopal
	Dr. Shubha Johari	Head, Department of History, RTM Nagpur University Nagpur.
	Dr. Sangita Meshram	Associate Professor, , Department of History, RTM Nagpur University Nagpur.
Guest Lecture on topic," Chhatrapati Shivaji yanchi Raajni" held on 20 Jan 2015	Ms. Nishi Dixit	Ex-Associate Prof., C. P. & Berar College, Nagpur.
Guest Lecture on topic," Role of Tribes in Freedom Struggle" held on 30 Sept. 2015	Dr. Shyam Kalinde	Principal, Pratap Mahavidyalaya, Amalner.
Guest Lecture on topic," Itihasache Rojagarat Mahatva" held on 17 <sup>th</sup> Aug. 2016	Dr. Shyam Koreti	Asst. Prof., Department of History, RTM Nagpur University, Nagpur.
<b>Department of Library Science</b>		
UGC sponsored National Conference On Modern Management Techniques For Libraries In IT Era , Held on 10 <sup>th</sup> July 2013	Dr. Rajendra Kumbar	Prof.DLIS, University Of Pune
	Dr. R.N. Deshpande	Librarian , VNIT Nagpur
	Prof. Dhavle	Ex Librarian, S B City College Nagpur
	Dr. Veena Prakash	Sr Information Scientist RTM Nagpur University Library
<b>Department of Commerce</b>		
Expert Lectures arranged on 6 <sup>th</sup> September 2013 On the topic "Income From House Property" by Department of Commerce	CA. Rina Jain	CA. Rina Jain & Co. Chartered Accountant
Expert Lectures arranged on 20 <sup>th</sup> December 2013 On the topic "Scope of Auditing in Business"	Dr. Jaylaxmi Binwar	Branch Manager Buldhana Urban Co-op Bank, Ramdaspath Branch Nagpur



by Department of Commerce		
Expert Lectures arranged on 05 <sup>th</sup> December 2014 On the topic “How to compute tax for Individuals” by Department of Commerce	CA. Chetan Bhandirge	CA. Chetan Bhandirge & Co. Chartered Accountant
Expert Lectures arranged on 07 <sup>th</sup> January 2015 On the topic “Income From Business and Profession ” by Department of Commerce	CA. Sagar Wazarkar	CA. Sagar Wazarkar & Co. Chartered Accountant
Expert Lectures arranged on 28 <sup>th</sup> August 2015 On the topic “Opportunities In Chartered Accountancy Course ” by Department of Commerce	CA. Kirti Agrawal	President WIRC Nagpur Branch
A lecture on personality development was delivered on 05 <sup>th</sup> of January 2016 by Department of Commerce	Mr. Piyush Sharma	Area Manager Johnson and Johnson
A Interactive Session on “Development of Indian Economy” was organized by Department of Commerce On 23 <sup>rd</sup> January 2016	Dr. Jobi George	Principal, Bhiwapur Mahavidyalaya Bhiwapur
A guest Lecture on “Time and Stress Management ” was organized by Department of Commerce On 09 <sup>th</sup> September 2016	Mrs. Uma Sharma	President Divine India (Social Activity Organization)
A Power point presentation was	Mr. Amit Bhure	Expert Analyst Cyber Crime Cell



organized by Department of Commerce on “Cyber Crime” on 3 <sup>rd</sup> December 2016		Nagpur City
A guest Lecturer on “Awareness of Consumer Protection Act ” was organized by Department of Commerce On 05 <sup>th</sup> January 2017	Dr. Kalpana Upadhyaya	Incharge Study Circle, Grahak Panchyat Nagpur Branch.
<b>Department of English</b>		
State Level Seminar on Contemporary Drama on 6 <sup>th</sup> March 2013, organized by the Dept of English	Mr Vikash Khurana,	Noted Theatre personality in Vidarbha, Nagpur
	Dr. Dinesh Nayar	Mumbai University
	D in Nagpurr Supantho Bhattacharya, noted actor and Director	Associate Professor in English, Hislop College, Nagpur
<b>Department of Sociology</b>		
University Level Seminar on value Crisis in Indian Emerging Society	Adv. Madan Senad	Famous Lawyer
	Dr. Jyoti Selokar	HoD, Dept. of Sociology, Bar. Wankede College, Khaparkheda
	D in Nagpurr Supantho Bhattacharya, noted actor and Director	Associate Professor in English, Hislop College, Nagpur
National Conference on Globalization and its Impact on Indian Family System	Dr. Chandrashekar Mina	DCP Nagpur Region
	Dr. Arvind Joshi	Banaras Hindu Vidyapith
<b>Department of Marathi</b>		
Shuddha Lekhanachi Karyashala	Prof. Deepak Rangari	Editor Lokmat Daily
<b>Department of Chemistry</b>		
DST sponsored national conference on multifunctional advanced materials 17-18 <sup>th</sup> march 2017	Mr. B. T. Thakkar,	Department of Chemistry, Vidyadi Institute of Science, Surat, Gujrat
	Navin Chandra Shimpi	Associate Professor University of Mumbai
	Dr. Rehlan	Scientist BARC
	Prof N. S. Gajbhiye	Ex VC Sagar University



DST sponsored national conference on Nanoscience and smart material	Prof N. S. Gajbhiye	Prf. IIT Kanpur
<b>Department of Biotechnology</b>		
A National Conference on Frontiers of Mathematics on 22 <sup>nd</sup> March 2013 Organised by Department of mathematics	Dr .K.C. Deshmukh	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Ravi Saraykar	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Pradeep Siddheshwar	Banglore University
	Dr. Abhijit Lahiri	Jadhavpur University
	Dr. Kishor Adhav	SGB Amravati University.
<b>Department of Microbiology</b>		
Guest lectures (2014-15)	Dr. Nitin Dongarwar	Asst Professor PGTD of Botany RTMNU
	Dr. Amudha	Senior Scientist CICR Nagpur
Guest lectures (2015-16)	Mr. Bhangu	Retired Forest officer Nagpur
	Dr. B.K. Sarangi	Principle Scientist NEERI
Guest lectures (2016-17)	Dr. Prabodh Halde	Manager Marico Mumbai
	Mr. Vivek Ranade	Organic Farming Consultant
	Mr. Mukund Sherekar	Naturopath
	Mrs. Monica Raghorte	District Malaria officer, Nagpur
<b>Department of Home Economics</b>		
Guest Lecture on 10 <sup>th</sup> Feb 2012	Miss. D. Ghagargunde	Assit prof. Nabira college Katol
Guest Lecture 7 <sup>th</sup> Feb 2012	Dr. Smita Patterkine	HOD Heco. Dept. Rajkumar Kewalramani Mv. Nag.
Guest Lecture 2 <sup>nd</sup> Feb 2013	Dr. A. Neole	HOD Heco. Dept. Nabira college Katol.
Guest Lecture 23 <sup>rd</sup> Sept. 2015	Dr. Jayshree Pendharkar	Nutritionist, Nagpur
Guest Lecture 18 <sup>th</sup> Sept 2015	Dr. Rajiv Mohta	Children specialist
Guest Lecture 22 <sup>nd</sup> Jan 2016	Mrs. Rashmi	Sheif, LG Microwave
Guest Lecture 20 <sup>th</sup> Sept 2013	Dr. Anjali Bhandarkar	Counselor, Nagpur





Guest Lecture 14 <sup>th</sup> sept 2016	Dr. Shreebala Deshpande	HOD Heco. Porwal college Kamptee
Guest Lecture 21 <sup>th</sup> Dec. 2015	Dr. Manisha Ithape	Counsellor, Amarawati
Guest Lecture 27 <sup>th</sup> Aug. 2016	Dr. Sushma Deole	Nutritionist, Nirmal Health Care
Guest Lecture Dec. 2016	Dr. Sorte	MD. Gynec.
Guest Lecture 27 <sup>th</sup> Aug. 2015	Raja Akash	Counselor, Nagpur
<b>Department of Environmental Science</b>		
Indoor Air Quality, 2012-13	Dr. S. Kalkar	HOD of Botany Dept. Institute of Science college, Nagpur
Advanced Water and Waste Water Treatment, 2013-14	Dr. Kaustav Chatterjee	Head person at Reva Enviro, Nagpur
Current Environmental Issues in Nagpur City, 2014-15	Dr. Kaustav Chatterjee	Head person at Reva Enviro, Nagpur
Wild Life Conservation, 2015-16	Mr. Rajendra Bhangu	Retired Forest Officer Nagpur
Environmental Issues in Nagpur City, 2016-17	Dr. C.A. Moghe	Re. Scientist EIRA Dept. NEERI, Nagpur
Analytical Techniques, 2016-17	Dr. N.S. Raman	Dept. Director NEERI Nagpur
Lecture on EIA, 2016-17	Dr. N.S. Raman	Dept. Director NEERI Nagpur
<b>Department of Cosmetic Technology</b>		
Presentation on Contract Research 2012-13	Mr. Vinay Kumar Singh,	General Manager, Mikasa Cosmetics, Gujrat
Guest Lecture on "Recent Development in Cosmetics" 2013-14	Dr. Mrs. Sheela B. Kulkarni,	HOD, Dept. of Cosmetic Technology, L.A.D., College, Nagpur
Seminar on Application of Chemical Engineering in Cosmetic Technology, 2014-15	Mr. Mangesh Waghmare	Priyadarshani Institute of Engineering & Technology, Nagpur.
Workshop on Skin Awareness and Detection Camp, 2015-16	Dr. Rupa Aditya,	Dermatologist, Nagpur
Guest lecture on 'Motivational Aspects	Dr. Prabodh Halde,	Manager, Marico India Pvt. Ltd.



of Cosmetic Technology' 2016-17		
<b>Department of Management</b>		
Student Interaction Program	Dr. Vinayak Deshpande,	Ex. Vice Chancellor RTM Nagpur University, Nagpur
Guest Lecture on Why MBA? Industry Expectations From MBA's, Skill set required for a successful management career Speaker	Dr. Yogesh Deshpande	Humanities Dept. VNIT, Nagpur
Role of Aptitude in Management on dated 9 <sup>th</sup> Feb 2013	Mr. Milind Apte	9 <sup>th</sup> Feb 2013
Seminar on Banking on dated 23 <sup>rd</sup> Feb 2013	Mr. Rishi Chaurasiya	23 <sup>rd</sup> Feb 2013
Seminar on Cyber Security on dated 15 <sup>th</sup> Mar 2013	Dr. Ronald De'costa	15 <sup>th</sup> Mar 2013
SEBI Sponsored Seminar on Financial Education on dated 9 <sup>th</sup> April 2013	Prof. Kanchan Naidu	9 <sup>th</sup> April 2013
Seminar on Aptitude Development on dated 10 <sup>th</sup> April 2013	Mr. Rakesh Sharma	10 <sup>th</sup> April 2013
Seminar on Presentation skills on dated 21 <sup>st</sup> Sept 2013	Mr. Prashant Joshi	21 <sup>st</sup> Sept 2013
Seminar on Self Analysis on dated 27 <sup>th</sup> Sept 2013	Mr. Surendra Gole	27 <sup>th</sup> Sept 2013
BSE Sponsored seminar on MSME in association with WRC-ICSI (Institute of Company Secretary) on dated 18 <sup>th</sup> Oct 2013	Ex-General Manager Punjab National Bank	18 <sup>th</sup> Oct 2013
SEBI sponsored Seminar on Financial Education on dated 22 <sup>nd</sup> Feb 2014	Mr. Vijay Asrani	22 <sup>nd</sup> Feb 2014
"English Made Easy" on dated 1 <sup>st</sup> Mar 2014	C.R Choudhary	1 <sup>st</sup> Mar 2014
Expectation	Mr. Rajendra	6 <sup>th</sup> Mar 2014



Management and how to prepare for getting a good Placements. on dated 6 <sup>th</sup> Mar 2014	Chandorkar	
Seminar on Goal Setting on dated 23 <sup>rd</sup> Aug 2014	Dr. Sanjay Raghtate	23 <sup>rd</sup> Aug 2014
Seminar on Soft Skills on dated 24 <sup>th</sup> Aug 2014	Miss. Pooja Dharangoankar	24 <sup>th</sup> Aug 2014
Seminar on Goal setting on dated 13 <sup>th</sup> Sept 2014	Mr. Ashish Sharma	13 <sup>th</sup> Sept 2014
Seminar on Goal Setting on dated 13 <sup>th</sup> Mar 2015	Dr. Nitin Vighne	13 <sup>th</sup> Mar 2015
Seminar on Budget Analysis-2015 on dated 14 <sup>th</sup> Mar 2015	Mr. Rishi Chaurasiya	14 <sup>th</sup> Mar 2015
Why MBA? Industry Expectations From MBA's, Skill set required for a successful management career Speaker on dated 6 <sup>th</sup> Aug 2016	Dr. Yogesh Deshpande (Humanities Dept. VNIT, Nagpur)	6 <sup>th</sup> Aug 2016
Improving English Speaking & Writing Skills on dated 11 <sup>th</sup> April 2015	Mr. Siddharth Azmi	11 <sup>th</sup> April 2015
Economic aspects of Budget on dated 11 <sup>th</sup> Mar 2016	Dr. Sujit Metre	11 <sup>th</sup> Mar 2016
<b>Department of Library Science and Information</b>		
UGC sponsored National Conference On Modern Management Techniques For Libraries In IT Era , Held on 10 <sup>th</sup> July 2013	Dr. Rajendra Kumbar	Prof.DLIS, University Of Pune
	Dr. R.N. Deshpande	Librarian , VNIT Nagpur
	Prof. Dhavle	Ex Librarian, S B City College Nagpur
	Dr. Veena Prakashe	Sr Information Scientist RTM Nagpur University Library
<b>Department of Physics</b>		
A National Conference on "Current development in	Dr. Dinesh Amalnerkar,	Director, CMET, PUNE
	Dr. S. Shrinath	Central University



NanoScience: Challenges and Opportunities” on 14September 2013 Organised by Department of Physics		Department of Physics, Hyderabad
	Prof. S. S. Umare	VNIT. Dept of Chemistry, Nagpur
	Dr. Manish Shinde	CMET, PUNE

**3.1.9. What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?**

There is no request for sabbatical leave by the faculty members. Hence Sabbatical leave has not been given to any faculty till date.

**3.1.10. Provide details of the initiatives taken up by the Institution in creating awareness/ advocating/transfer of relative findings of research of the Institution and elsewhere to students and community (lab to land)**

Students and teachers are encouraged to publish their findings in reputed journals. They are encouraged to present their findings in conferences / seminars /workshops, interaction sessions with community on various platforms like guest lectures, informal meetings at other institutions etc. Research papers and /or executive summary of teachers’ research projects are displayed on college website.

**3.2. Resource Mobilization for Research**

**3.2.1. What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.**

Teachers are encouraged to apply for major and minor research projects to the UGC, DST and the sanctioned amounts are disbursed as per the guidelines of the funding agencies.

- The college is keen on developing and sustaining the research culture among the students & teaching faculty. For this, yearly activities like in-house ‘**Student Research Project Competition**’ at undergraduate & postgraduate levels is organized.



- Students are funded for participating in prestigious research competitions like Avishkar, a state level student research project competition.
- Teachers are encouraged to participate in national and international meets in the form of conferences, seminars; workshops etc. and their participation in such events are recognized by refunding the registration fees paid by the teachers, Etc.

Details of amount spent on Student Research Project Scheme, Avishkar, conference registration fees, financial assistance for attending conferences are given below:

Year	Student Research Project Scheme	Avishkar	Refund of registration fees of staff (Conferences/workshops/seminars)	Other Contingencies	Total
2012-13	24,512	12,000	3,500	61,74,550	61,74,550
2013-14	35,690	14,450	6,200	58,30,599	58,86,939
2014-15	58,420	18,900	6,500	82,51,432	83,35,252
2015-16	62,550	22,500	18,500	94,07,752	95,11,302
2016-17	78,992	25,300	22,900	98,0,320	11,07,512
<b>Total</b>	<b>260,164</b>	<b>93,150</b>	<b>57,600</b>	<b>24,470,103</b>	<b>24,841,005</b>

The college has earmarked around 11.34% of the total budget for research.

Year	Expenditure (%)
2012-13	11.10%
2013-14	7.50%
2014-15	12.22%
2015-16	12.90%
2016-17	13.00% (Expected)



**3.2.2. Is there a provision in the Institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

The college encourages teachers and students continuously to participate in various research events in order to enhance their creativity and lateral thinking. It helps by paying their registration fees for the workshops conducted by Avishkar on how to do research. Avishkar is an inter-collegiate Research Competition in which our college participated during all academic year 2014-15. It is a state-level research convention initiated by the Government of Maharashtra and the Chancellor of the Universities in the State of Maharashtra which is open to undergraduate and post graduate students

Total **03** teachers have been provided the seed money of **95,000/-** under mini research project scheme.

Total **10** students have been provided the seed money of **17,000/-** under mini research project scheme.

**3.2.3. What are the financial provisions made available to support student research projects by students?**

Kamla Nehru Mahavidyala is very keen on inculcating the research aptitude among the students and extends support at its best.

- **Student Research Competition:** Every year, a **research project competition** is organized for students. Teachers are motivated to guide students for this External experts for each subject are invited for the screening of these projects. The best projects from each category of UG and PG, from each faculty are awarded..
- Students are encouraged to participate in the **Avishkar** Student Research Competition organized by RTMNU (University level), Govt. of Maharashtra (State Level) and Govt. of India (National Level). College supports the students by providing the expenses for the same.
- Every year numbers of **Student Research Projects** have been carried out.
- **Avishkar projects** have been presented at **University level, 6 at Zonal level, 02 at State level** and **01** have won Avishkar competition at **State level**.



- An amount of 17,000/- has been utilized to promote Student Research Project Scheme and Avishkar Research Competition.

**3.2.4. How does the various Institutions/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.**

College has a wide spectrum of disciplines with expertise available in a variety of areas, with various facilities at each department and most of the teachers are actively engaged in research activities. This facilitates successful completion of interdisciplinary projects

A number of successful interdisciplinary projects have been carried out. Details of successful projects by the investigators during execution of these projects are summarized below:

**Department of Chemistry**

Teacher(S)	Name of Student	Title of The Project	Session	Collaborating Department
Chemistry	Ms.Roshni Tule	“Physico-Chemical Analysis Of Waste Water From Baidyanath	2013-14	Chemistry & Environment Science
Dr.M.S.Wagh & Miss. Neha K. Thakur	Ms.Arti Asawa	Water Analysis Of Three Different Lake Water In Nagpur	2013-14	Chemistry & Environment Science
Dr.M.S.Wagh	Ms.Bhagyashree Vyawahare	Characterization And Analysis Of Different Samples Of Soil From The Village Kondhali.	2013-14	Chemistry & Environment Science
Dr.S.M.Gadegone & Miss. Neha K. Thakur	Miss. Afrin M. Sayyad	Studies On Physico-Chemical & Microbiological Parameter Of Lake Water	2014-15	Chemistry & Environment Science
Dr.S.M.Gadegone & Miss. Neha K. Thakur	Ms.Komali Bhusari	Study On Different Parameter Of Industrial Waste Water	2014-15	Chemistry & Environment Science
Dr.S.M.Gadegone & Miss. Neha K. Thakur	Ms.Puja Netke	Studies On Physico-Chemical & Microbiological	2014-15	Chemistry & Environment



		Parameter Of Bore Well Water And Packaged Drinking Water	2014-15	Science
Dr.W.B.Gurnule & Miss. Neha K. Thakur	Mr.Prakash Taram	“Comparative Study Of Characterization Of Two Different Lakes Of Nagpur City (Telangkhedi Lake & Gandhi Sagar Lake)”	2014-15	Chemistry & Environment Science
Dr.M.S.Wagh & Miss. Neha K. Thakur	Ms.Shweta Kadam	Effect Of Chemical Fertilizer And Bio Fertilizer On The Soil Quality Of Ghogli-Besa	2014-15	Chemistry & Environment Science

Teacher(s)	Name of the students	Title of the project	Session	Collaborating department
Dr.M.S.Wagh	Samiksha Mendhekar	Synthesis & antibacterial activity of potassium trioxalato aluminate complex & potassium trioxalato ferrate complex	2013-14	Chemistry & Microbiology
Dr.M.S.Wagh	Roshni Tule	Physico-chemical analysis of waste water from baidyanath	2013-14	Chemistry & Environment science
Dr.M.S.Wagh	Puja Katre	Cytological study of trigonella foenum graecum and brassica compestris?	2013-14	Chemistry & Botany

Teacher(s)	Name of the students	Title of the project	Session	Collaborating department
Dr.S.M.Gadegone	Puja Netke	Study on different	2014-	Chemistry &





		parameter of industrial waste water	2015	Environment Science
Dr.S.M.Gadegone	Praksh Taram	Studies on physico-chemical & microbiological parameter of bore well water and packaged drinking water	2014-2015	Chemistry & Environment Science
Dr.W.B.Gurnule	Priyanka Dhobale	“Comparative study of characterization of two different lakes of nagpur city (telangkhedhi lake & ghandhi sagar lake)”	2014-2015	Chemistry & Environment Science
Dr.W.B.Gurnule	Ritesh Telrandhe	Separation and identification of toxic three layers metal ion in the soil sample by thin layer chromatography	2014-2015	Chemistry & Environment Science
Dr.M.S.Wagh	Sandhya Taram	“Mutagenic effect of chemical compounds on cowpea beans”	2014-2015	Chemistry & Botany
Dr.M.S.Wagh	Shriya Mude	“Synthesis of shampoo using mud and evaluation of cleansing strength”	2014-2015	Chemistry & Cosmetic Technology
Dr.M.S.Wagh	Shweta Mude	Effect of chemical fertilizer and bio fertilizer on the soil quality of Ghogli-Besa	2014-2015	Chemistry & Environment Science
Dr. W. B. Gurnule	Bharati Jane	Synthesis, Characterization of new coordination polymer and its luminescence properties	2014-2015	Chemistry & Physics

Teacher(s)	Name of the students	Title of the project	2015-2016	Collaborating department
Dr. S. M. Gadegone	Neha Sapate	Phytochemical and Regeneration study of Piper Betel Plant in relation with Bioinformatics	2015-2016	Chemistry & Biotechnology
Dr. S. M. Gadegone	Rasika Pande	Phytochemical and Regeneration study of Vitex nirqundo	2015-2016	Chemistry & Biotechnology
Dr. S. M. Gadegone	Ms. Gayatri	Formulation of hand wash and comparative study with marketed product	2015-2016	Cosmetic Technology
Dr. M. S. Wagh	Hemlata Tarhekar	Effect of some thiosemicarbazides on	2015-2016	B Chemistry & otany



		kariotoxicity of allium cepa (l).		
Dr. M. S. Wagh	Kiran Lambat	Effect of thiosemicarbazides on the germination pattern of wheat( triticum).	2015-2016	Chemistry & Botany
Dr. W. B. Gurnule	Rupesh Kolhe	Luminescence Characterization of some new coordination polymers	2015-2016	Chemistry & Physics

**Department of Physics**

Teacher(s)	Title of the project	Collaborating Department
Dr. S. A. Bhagat	Synthesis & Characterization of doped AlQ3 organic Phosphors. (for UV and FTIR)	Chemistry and Biotechnology
Dr. D.S.Badwaik	Synthesis & Characterization of Ferrites(for Impadence analyser, UV and FTIR)	Chemistry& physics

**Department of EVS**

Teacher(S)	Name of Student	Title of The Project	Session	Collaborating Department
Miss. Neha K. Thakur & Dr.S.R.Moghe	Ms. Payal Wagh	Different Parameters Of Water	2014-15	Biotechnology & Environment Science
Miss. Neha K. Thakur & Dr.S.R.Moghe	Mr. Ganesh Khanthiwar	Water Analysis	2014-15	Biotechnology & Environment Science

**Department of Cosmetic Technology**

Teacher(s)	Name of Student	Title of the project	Session	Collaborating Department
Ms. Smita J. Parate	Ms. ShriyaMude	Synthesis of Shampoo using mud and evaluation of hair strength.	2014-15	Cosmetic-Chemistry Department
Mrs. KetkiMisar	Ms. ApekshaPalikar	Formulation and Development of Hand Wash and comparative study against marketed products	2014-15	Cosmetic - Microbiology Department
Mrs. KetkiMisar	Ms. PallaviRandive	Formulation of Face Wash and Comparative Study against marketed products	2015-16	Cosmetic-Chemistry Department



Mrs. SuchitaBhise	Ms. AsmitaUjjainkar	Incorporation of Aloe vera Extract in Face Wash and Cream	2015-16	Cosmetic - Botany Department
Mrs. SuchitaBhise	Ms. PoojaChaudhari	Incorporation of Neem Extract in Neem Extract	2015-16	Cosmetic - Botany Department
Mrs. SuchitaBhise	Ms. JostnaChalpe	Formulation and analysis of various talcum powder.	2015-16	Cosmetic- Chemistry Department
Mrs. KetkiMisar	Ms. NishaGarami	Microbial Contamination and Preservative Capacity of some brands of Cosmetic Creams	2015-16	Cosmetic - Microbiology Department
Mrs. KetkiMisar	Ms. PriyaWanjari	Herbal Extract as potential antifungal and antibacterial agent	2015-16	Cosmetic - Microbiology Department
Mrs. KetkiMisar	Ms. ShilpaVaidya	Lycopene as a Wonder Drug	2015-16	Cosmetic - Microbiology Department
Mrs. KetkiMisar	Ms. TriveniSapate	Antimicrobial activity of some Indian Ayurvedic Medicinal Plant Against Different Microorganisms	2015-16	Cosmetic - Microbiology Department
Mrs. SmitaParate	Mr. JagendraRahangdale	Formulation and development of pain relieving ointment using Cinnamon oil.	2016-17	Cosmetic - Chemistry Department
Mrs. KetkiMisar	Ms. Puja Lodiwale	Formulation and Development of foot ointment by using Salicylic acid, Boric acid and Neem oil.	2016-17	Cosmetic - Chemistry Department
Mrs. SuchitaBhise	Ms. KarishmaDurve	Formulation and development of herbal shampoo	2016-17	Cosmetic - Botany Department
Mrs. KetkiMisar	Ms. PriyankaBhave	Antimicrobial effect of Aloe vera on human pathogens	2016-17	Cosmetic - Microbiology Department
Mrs. KetkiMisar	Ms. RuchikaSathavne	Antimicrobial activity of Papaya and Drum stick leaves extract	2016-17	Cosmetic - Microbiology Department

**Biotechnology**

Sr.n	Name Of Student	Name Of guide	Name of collaborative department	Name Of topics
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1	Ku. Aarti G. Bhajankar	Dr. S.R. Moghe	Biotechnology	Regeneration and phytochemical analysis of <i>Tinospora cordifolia</i>
2	Ku. Karishma P. Dhurve	Dr. V. Y. Charjan	Cosmetic technology	Incorporation of <i>Aloevera</i> extract in the preparation of bodywash shampoo (Cosmetic)

**SESSION- 2015-16**

Sr.n	Name Of Student	Name Of guide	Name of collaborative department	Name Of topics
1	Ku. Asmita D. Ujjainkar	Dr. V. Y. Charjan	Cosmetic technology	Incorporation of <i>Aloe-vera</i> extract in the preparation of face wash and face cream
2	Miss. Harsha A. Wasamwar	Dr. S.R. Moghe	Biotechnology	In vitro regeneration of <i>Vitex negundo</i> plant
3	Miss. Shubhangi R. Nimje	Dr. V. Y. Charjan	Biotechnology	Preparation of Biofertilizer from Floral Waste
4	Miss. Swati H. Pilare	Dr. S. R. Moghe	Biotechnology	In-vitro Studies in <i>Piper betel</i> leaf
5	Miss. Yogyashri H. Padole	Dr. S. R. Moghe	Biotechnology	In-vitro Studies in <i>Rouwolfia tetraphylla</i>
6	Hemlata Tarhekar	Dr. Mamta wagh	Chemistry	Effect of some Thiosemicarbazides on kariotoxicity of <i>Allium cepa</i>
7	Kiran Lambat	Dr. Mamta wagh	Chemistry	Effect of some Thiosemicarbazides on germination pattern of wheat

**SESSION- 2014-15**

Sr.N	Name Of Student	Name Of guide	Name of collaborative department	Name Of topics
1	Ku. Megha Diwate	Dr. S.R. Moghe	Biotechnology	In vitro studies in <i>Sesamum indicum nigrum</i>
3	Ku. Neha Atewar	Dr. S.R. Moghe	Biotechnology	In-vitro Regeneration in fibre crop grown in Maharashtra region

### 3.2.5. How does the Institution ensure optimal use of various equipment and research facilities of the Institution by its staff and students?

- The institution provides facilities to researchers such as reference books, journals, internet facilities etc.
- An orientation program is organized by the library staff to orient the students about the use of library resources.



- List of all major equipment and availability for their use is circulated to all the departments. This ensures repetitive purchase of equipment and an optimal usage.
- A record of use of major scientific instruments is maintained at each department to ensure optimum usage of the instrument.
- Students conducting research are guided by their supervisors about using research software and other ICT resources.
- The teachers and students can use the college library and computer laboratory for accessing various online research resources.
- The departmental facilities and instruments are available for use by the teachers and students for day-to-day practical classes, research projects, and in organizing seminars/workshops.
- Not only is the staff trained in specific use of a specific instruments but also in its regular maintenance.
- It is ensured at the time of procuring an instrument that the product specialist gives a demonstration to the faculty and laboratory staff about the various parts and use of the instrument.
- Stock registers of equipment are also maintained to monitor use.

**3.2.6. Has the Institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes', give details**

We have received substantial funds around from UGC, for either developing the infrastructure or for procuring instruments so as to give hands-on-training to maximum students and make them competent to take up research as a career option. Apart from these major funds, a significant number of instruments have been procured through the grants sanctioned as financial assistance for major and minor research projects of teachers.

The college receives funding under various schemes from government funding agencies like UGC, DBT, DST and ISRO. The details of funding received and equipments/ facilities developed are as follows:

Funding Agency	Nature of Assistance	Amount
DST-FIST	Research input	39 Lakhs(Received)



	development	
UGC	Minor 09 Research Projects	10,15,758/- (Received)
UGC	Major 03 Research Projects	32,81,100/-(Received)

**3.2.7. Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.**

- All the teachers are encouraged to undertake research projects and submit
- Proposals to various funding agencies like UGC, DST, CSIR, etc.
- The calls for proposal are communicated to teachers through notices.
- The Research Committee helps to design and submit the proposal.
- The research committee and the Central Purchase Committee ensure smooth purchase of instruments, books etc.
- Follow-up meetings are also held to ensure that teachers submit proposals.
- As an outcome of these efforts, the college has a considerable number of research projects and the total funding received so far as summarized below:

Nature of the Project	Number of projects		Funding agency	Total grant	
	Ongoing	Completed		Sanctioned	Received
Minor projects	--	<b>09</b>	UGC, WRO	<b>10,15,758/-</b>	<b>10,15,758/-</b>
				--	--
Major projects	--	<b>03</b>	UGC	<b>32,81,100/-</b>	<b>32,81,100/-</b>
Any other					
<b>Total</b>				<b>42,96,858/-</b>	<b>42,96,858/-</b>



### 3.3. Research Facilities

#### 3.3.1. What are the research facilities available to the students and research scholars within the campus?

The college has a Central Research Laboratory with latest equipments and materials required for research at undergraduate and post graduate levels. Besides, the institution has 06 RTM Nagpur University recognised research Centers in 6 subject. To support the research scholars in the campus the other research facilities available are as follows:-

- Well equipped Central library and departmental libraries.
- E-Zone in library which aids in getting access to massive store of e-resources.
- Special Department libraries handled exclusively by students.
- 05 classrooms with audio-visual facilities such as LCD projector, interactive smart boards, etc. for teachers and students
- One AC conference room with full facility with total capacity of 200
- One staff rooms with WI-FI and adequate seating & storage facility.
- Auditorium for conferences and other co-curricular and extra-curricular events with a seating capacity of 400.
- Well-equipped research laboratories
- Subscription of national and international research journals in departmental libraries and Central library
- 11 recognized research guides.
- The departments are well equipped with basic and advanced infrastructural facilities like free high-speed internet connection, furniture, uninterrupted electricity & continuous water supply, computers, printers, scanners, LCD projectors, photo-copying facility at three places, etc. along with specialized instruments. Some of the research equipment and facilities are set up through the funds received under Major and Minor research projects.
- College provides seed money for Student Research Project Competition.
- Library is available for the students and research scholars with rich collection of books, research journals, e-Journals, e-books along internet access, for teachers and students.



- Further, the resources like INFLIBNET, NLIST are made available to the scholars.

#### List of Major Instruments

Sr. No.	List Of Instrument	Purchase Amount	Instrument Utility
1	Digital Conductivity Meter	6,500/-	Conductance
2	Hygrometer	6405/-	Humidity
3	Analytical Weighing Balance	9,750/-	Weighing
4	Distilled Water Assembly	4,100/-	Distilled water
5	Microscope	12,500/-	Microscopic observations
6	Magnetic Stirrer	4,000/-	For stirring sample
07	Water Bath	5,000/-	For heating purpose
08	Autoclave	19,800/-	For sterilization
09	Oven	6,200/-	For drying purpose
10	Digital P <sup>H</sup> Meter	5,490/-	To estimate P <sup>H</sup>
11	Colorimeter	6,540/-	For estimation of concentration
12	Incubator	6,240/-	For the growth of microorganisms
13	Jar Test Apparatus	28,500/-	For Flocculation & coagulation
14	Cup Anemometer	5,000/-	For wind speed
15	Sound Level Meter	4,000/-	Intensity of Sound
16	Pen P <sup>H</sup> Meter	2,490/-	To estimate P <sup>H</sup>
17	Digital Weighing Balance	8,900/-	Weighing
18	P <sup>H</sup> Electrode	650/-	P <sup>H</sup> Measurement
19	P <sup>H</sup> Electrode	600/-	P <sup>H</sup> Measurement
20	Electronic Weighing Balance	8,500/-	Weighing
21	Sound Level Meter	12,500/-	Intensity of Sound
22	Digital Digestion Unit	42,000/-	For Estimation of C.O.D.
23	Flame Photometer	42,000/-	For Estimation of Alkali metals
24	Nephelometer	8,000/-	For Estimation of Turbidity
25	Lux Meter	5,000/-	For Estimation of Photo Density
26	Kjeldahl's Assembly	3,500/-	For Estimation of Nitrogen
27	pH Electrode	1375/-	pH Measurement
28	Distilled Water Assembly	10,000/-	For Distilled Water
29	Cup Anemometer	8220/-	For wind speed
30	Dessicator	1180/-	To prevent from moisture
31	Digital Photo-colorimeter	7950/-	For estimation of concentration
32	Digital Stop Watch	650/-	Time
33	Microscope	3520/-	Microscopic observations
34	Weighing Balance	24000/-	Weighing
35	Digital Sound Level Meter	6700/-	Intensity of Sound





36	P <sup>H</sup> Electrode	1000/-	pH Measurement
37	High Volume Sampler	65000/-	Air Quality
38	pH Electrode	990/-	pH Measurement
39	Magnetic Needle	65/-	For Stirring
40	Hygrometer Thermo Digital	1250/-	Relative Humidity
41	Spectrofluorometer with Computer set up	9,00,000 /-	Emission spectra for Photoluminescence
42	Thermoluminescence with Computer set up	12,00,000/-	Thermo luminescence property
43	Furnaces (2 Quantity)	60000/-	Heating the materials at high temperatures
44	Furnaces	20,000/-	Heating materials at high temperatures
45	Furnaces	50,000/-	Heating materials at high temperatures
46	Electronic metler Pan	1,00,000/-	Weighing
47	Guass Balance	60,000/-	Magnetic susceptibility
48	Magnetic Stirrer (5)	2,50,000/-	Vigorous and continuous Stirring
49	Dhona Balance (4)	12,000/-	Weighing
50	Microwave oven	15,000/-	Fast heating by reducing the time period
51	Oven	5,000/-	Heating purpose
52	PH meter	5,000/-	Measurement of PH
53	Abbe's Refractometer	45000	Refractive index
54	Analytical Balance	34650	accurate weighing
55	Colorimeter(Photoelectric)	45000	Absorption
56	Conductivity Meter	14450	Conductance
57	Deionizer	14000	Deionized water
58	Distilled water plant	15870	distilled water
59	Kjeldalh Flask	6785	Nitrogenn estimation
60	Magnetic Stirrer	3000	Stirring
61	Oven	8250	Heating
62	pH Meter	16000	PH determination
63	Polarimeter	35000	Optical density
64	Potentiometer (digital)	14000	Electro motive force
65	Shaking Machine	11000	Shaking purpose
66	UV Spectrophotometer	362631	UV Spectr
67	Vaccum Suction Pump	23200	Filtration
68	Hydraulic Press	80000	pellets making
69	LCR - 2 meter	200000	electrical conductivity
70	Ion Meter	65000	Metal ion concentration
71	Ultrasonic Interferrometer (for liquid)	95000	sound velocity
72	Oil Bath	18000	heating
72	IR Spectrophotometer	1365000	IR spectra
	Total	<b>55,44,901/-</b>	



**3.3.2. What are the Institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?**

The College IQAC team along with the Research Advisory Committee plans, monitors and upgrades overall infrastructural facilities of the College. The needs of the researchers are met in the following ways:-

- ICT and academic infrastructure is upgraded to meet the needs of researchers.
- Adequate funds are allocated to purchase books and other academic infrastructure necessary for research
- College always identifies the budding researchers amongst teachers and students and assists them to undertake research projects, provide various resources as well as seed money to the teachers working on temporary basis.
- College is keen in applying for various research-oriented schemes launched by authorities like UGC, DBT, CSIR, etc. in order to develop new facilities to accelerate the research.
- The LMC and RAC of college takes a periodical review of present infrastructure and plans for the up-gradation / building up the new ones.
- Further, teachers and students are encouraged to participate / organize various scholarly meets where they can interact with the leading researchers, can get to know about recent trends and developments.

**3.3.3. Has the Institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities? If 'yes', what are the instruments / facilities created during the last four years.**

Yes, the college has received grants through various funding agencies such as UGC, DBT, DST. The financial assistance received through these grants has helped in procuring equipment and facilities for research.

Department	Name of Instrument	Cost (Rs.)	Funding Agency
Electronics	Microwave Test Bench Model VX2001	1,18,500.00	DST
	Tina Educational version V9 Software with USB Kit	1,25,750.00	UGC
	Digital storage	81,500.00	UGC



	oscilloscope 100 MHz		
	Digital Storage Oscilloscope 200 MHz	1,44,500.00	UGC
	8086 Microprocessor Trainer Kit+ SMPS+Keyboard	64,000.00	UGC
<b>Physics</b>	TLD Reader Nucleonix set up	10,28,500.00	DST
	Spectrofluorophotometer	9,50,000.00	UGC
	Michelson Interferometer	1,25,000.00	UGC
	Guoy's Method Apparatus	61,500.00	UGC
	Four Probe Apparatus	52,000.00	UGC
<b>Chemistry</b>	FTIR Spectrophotometer Shimadzu	13,00,000.00	DST
	Ultrasonic Interferometer for Liquid	95,000.00	UGC
	Ion Meter	67,750.00	UGC
	LCR-Q Meter Hemegh	2,45,250.00	UGC
	Hydraulic Press Machine	70,650.00	UGC
	UV-Visible Spectrophotometer UV-1800	3,99,375.00	UGC
<b>Computer sci.</b>	Wipro NET Power Server6	2,92,800.00	UGC
<b>Biotechnology</b>	Deep Freezer	1,00,000.00	UGC
	BOD Incubator	90,000.00	UGC
	Autoclave	80,000.00	UGC
<b>Biochemistry</b>	Cooling Centrifuse1	1,38,000.00	UGC
<b>Environmental Sci.</b>	High Volume sampler	65,000.00	UGC
<b>Microbiology</b>	Laminer air flow	61,875.00	UGC
	Deep freezer vertical	73,750.00	UGC
	BOD Incubator	54,000.00	UGC
<b>Botany</b>	Laminar Air Flow	52,380.00	UGC
	Deep freezer (horizontal)	78,000.00	UGC
	Centrifuge (Cooling)	1,36,730.00	UGC
	Bio-spectrophotometer	2,60,000.00	UGC



### 3.3.4. What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

The college has established linkages with other institutions through INFLIBNET and some financial institutions to enable our faculty and students to access their resources.

College extends its support to the research scholars even outside the campus. The facilities include use of many sophisticated instruments for material synthesis, data analysis, characterization facilities, reference work etc. Also, many researchers visit other institutes / centers for research surveys, collection of primary data etc.



Several senior faculty members and research scholars have linkages with institutes and laboratories of National repute. Following are the details:-

Sr. No	Name Of Teacher	Linkage With National Institutes/ Laboratories
1	Dr. Wasudeo Gurnule	National Chemical Laboratory, Pune
		VNIT, Nagpur
		C V Raman University, Bilaspur

### 3.3.5. Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

Sr. No	Particulars	Details
1	Books for Circulation	28998
2	reference book	1425
3	E books available through INFLIBNET	3135809
4	international and national journals	18+73
5	E journals subscription in online and print version	6237
6	CDs and DVDs for reference material on various subjects	579

Further, links to many free e-resources have been provided on library portal. A high-speed internet facility on the campus facilitates access these resources.



**3.3.6. What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.**

- Facilities available at the departments which are recognized as a centre for higher learning and research extended to other colleges with the permission of the head of institution.
- Bhabha Atomic Research Centre (BARC) has donated research instrument 'Monochromator' which is very useful for research students.
- The library has Inter-Library Loan service.

### 3.4. Research Publication and Awards

**3.4.1. Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product), Original research contributing to product improvement, Research studies or surveys benefiting the community or improving the services, Research inputs contributing to new initiatives and social development.**

**Patents: 01 Filed, 02 Granted**

Following table would elaborate the details.

Sr. No.	Title Of Invention	Inventors	Details	Status
1.	Propagation of diploid cotton G-orboreumby multiple shoot induction	<b>Dr. Sandhya Moghe</b>	1557-MUB 2009. Date 2/7/2009	Published in 2012
2.	Methods For Music Based Computing Of Human Emotions And Evalutic The Raga Of Indian Classsical Music For Stress Release And Emotion Control.	<b>Dr. P. K. Butey</b>	Patent By: Controller General Of Patents, Design And Trade Marks, Department Of Industrial Policy And Promotion, Ministry Of Commerce And Industry (INDIA)	09/01/2015 Patent Sanctioned



**3.4.2. Does the Institute publish or partner in publication of research journal(s)? If 'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?**

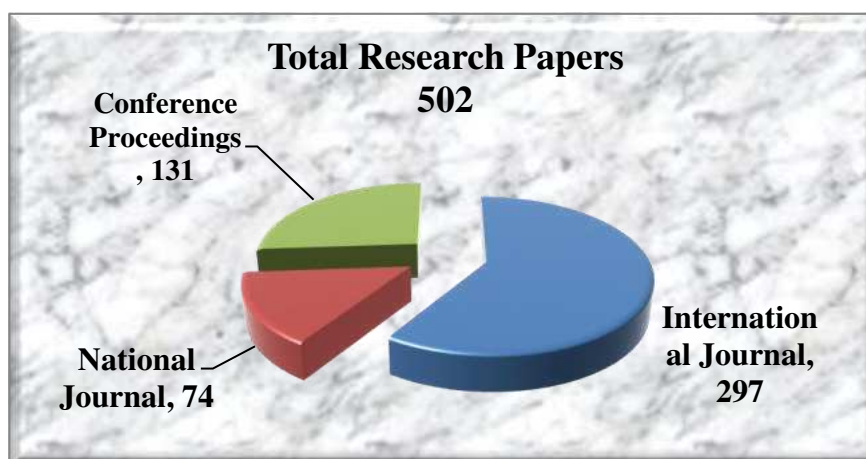
Yes, the Institute publishes the research journal. The detail is given below

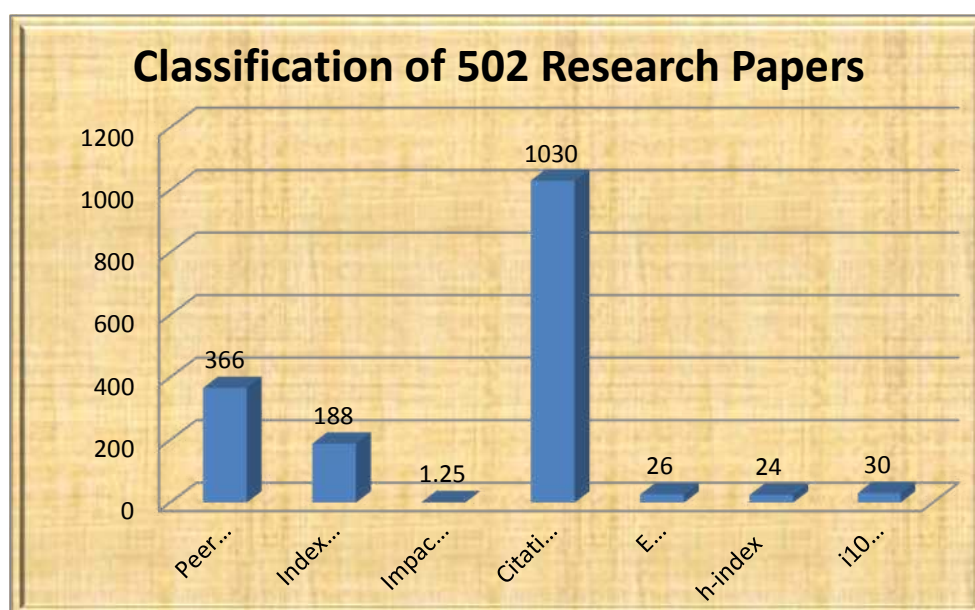
Name of Journal	Kamla Nehru Research Journal
Publication	Bi-Annual
ISBN No	978-93-81432-97-6
Editor	Dr. Dahikar
Editor-in-chief:	Dr. Moghe
Associate Editors:	Dr. Gadegone
Member	Dr. Badwaik
Member	Dr. Khandait
Member	Dr. Peshve
Member	Dr. Kashikar

**3.4.3. Give details of publications by the faculty and students: Publication per faculty, Number of papers published by faculty and students in peer reviewed journals (national / international), Number of publications listed in International Database (for e.g.: Web of Science, Scopus, Humanities International Complete, Dare Database– International Social Sciences Directory, EBSCO host, etc.), Monographs, Chapter in Books, Books Edited, Books with ISBN/ISSN numbers with details of publishers, Citation Index, SNIP, SJR, Impact factor and h-index.**

**Details of Research Publications by Teachers:**

- Give the details of all research papers (authors, title, name of journal, page number, years, etc.)





Sr. No	Department	Name of Teacher	International Journal	National Journal	Conference Proceedings	Peer Reviewed	Indexed	Impact Factor	Citation	E Journal	h-index	i10 index	Total
1	Chemistry	Dr.S.M.Gadegone	20	3	5	23							28
2		Dr. W. B. Gurnule	52	15	0	67	67	1.7	824	2	16	27	67
3		Dr.M.S.Wagh	8										
4	Physics	Mrs. V. R. Kharabe	3	3	2	6		2.29					8
5		Dr. S. A. Bhagat	8	1	7	9	9						16
6		Dr.S. P. Puppalwar	10	3	6	13	13	1.63	78		5	3	19
7		Dr. D. S. Badwaik	3	2	3	9	9	0.2					8
8		Mr. A. J Mahajan	2			2	2		5				2
9	Electronics	Dr. P. B. Dahikar	67	4	28	71		1.25					99
10		Prof. P. M. Sontakke	0	0	1	-	-	-	-	-	-	-	1
11		Dr. A. K. Rewatkar	4	0	2	4	-	-	-	-	-	-	6
12	Maths	Dr. M.V. Borkar	1		2	1		2.24					3
13		Dr. Rupali Wanjari	2			2	2						2
14	Bio Tech	Dr. Moghe	4	2	0	6	6	4.3	100				6
15		Dr. S Tiwari	5	0		5	5				3		5
16		Prof. G Ade		5		5							5
17		Prof. M Mohadikar		1		1							1
18		Prof. Deepti Laud	2	1	2	3							5



19		Prof. A Darokar	1	3		4						4
20	Micro Bio	Dr.Chandak	9		2	9	9	4.3	23			11
21		Prof. Rohini Patle	2			2						2
22		Prof. Neha Sheikh	1			1						1
23		Prof. Ashiwini Kasulkar	1			1						1
24		Cosmetic	Prof. Misar	2	1	1	2	2				
25	Prof. Bhise		5		0	5						5
26	Prof. Parate		1			1						1
27	Zoology	Dr. Saxsena		0	1	0		0.02				1
28	Computer Science	Dr. P. K. Butey	23	1	0	24	--	4.226	--	20	--	24
29		Dr. Aruna Chamatkar	4	0	0	4	---	3.264	--	4	---	4
30		Dr. Sonali P. Yende	4	2	2	6	--	--	--	--	--	8
31		Prof. S. Y. Zade		1		1	---	---	---	---	---	1
32		Prof. A. S.Pimpalkar	1	0	0	1	---	---	---	---	---	1
33		Prof. R. B. Surve	2	0		2	---	---	---	---	---	2
34		Prof. B. A. Jagtap	1	0		1	---	---	---	---	---	1
35		Prof. S. B. Shirpurkar	2			2	--	--	--	--	--	2
36		Prof. K G Bakde	3			3						3
37		Prof. V. G. Belsare	1			1	--	--	--	--	--	1
38	Commerce	Dr. A K Shende	3	1	6	4	4					10
39		Dr. Meghe	4	2	7	6	6					13
40		Dr. Kamble			4							4
41		Dr. Bhaik			1							1
42		Dr. Kashikar			1							1
43		Prof. Sidana			3							3
44	English	Dr. Jain	2	3		5	5					5
45		Dr. Mukherjee	3	2	10	5	5					15
46		Dr. Deshbhratar	4	1	0	5	2	0.85				5
47	Marathi	Dr Peshve	1	1	1	2	1					3
48		Dr. Raut	1	3	2	4	4					6
49	Economics	Dr. Bhajni	2		3	2	2					5
50	Sociology	Dr. Parkar	1		16	1	1					17
51	Political Science	Prof. Adgaonakar	3	0	1	3	3					4
52	History	Dr. Zoad			6							6
53	Home Economics	Prof. Waloikar	1	2	1	3	3					4
54	MBA	Prof. Srigiriwar	4	3	0	7	7					7





55		Dr. Rajesh Vaidya	6	3	3	9	9						12
56		Prof. Vishakha Hade	1	2	0	3	3						3
57		Prof. Neha Wasalwar	1	0	0	1							1
58		Prof. Chaitanya Sakhe	5	0	2	5	5						7
59	librar y Scienc e	Dr. Inamdar	1	3		4	4						4
		<b>Total</b>	<b>297</b>	<b>74</b>	<b>131</b>	<b>366</b>	<b>188</b>	<b>26.27</b>	<b>1030</b>	<b>26</b>	<b>24</b>	<b>30</b>	<b>502</b>

## LIST OF RESEARCH PUBLICATIONS

### Dr. Sunita Gadegone (Department of Chemistry)

Sr. no	Title	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Synthesis and Characterization of Nickel Oxide based Nano composite material	International Journal of Engineering Research and Application IJERA	2248-9622	6-8	2014
2	Synthesis of Iodine Doped Co-ordination Polymer with Salicylic Acid-Biuret-TrioxaneTerpolymer	International Journal of Engineering Research and Application IJERA	2248-9622	9-10	2014
3	Ultrasonic Studies if Intermolecular Interactions in some Carbohydrates (Dextrose, Fructose and Inositol ) At 398.15K	International Journal of Researches in BioSciences, Agriculture and Technology	2347-517X	965-973	2014
4	Thermodynamic Parameters and Ultrasonic Studies of Intermolecular Interactions in some Carbohydrates (Dextrose, Fructose & Inositol) at 298.15K	Der Pharmacia Lettre	0975-5071	236-241	2014
5	One pot synthesis of Itaconic Acids from stobbe Condensation Method	International Journal of Chemistry and Pharmaceutical Sciences	2321-3132	48-53	2016
6	Biosorption of Cadmium from solution by <i>Trapa nantas</i>	Der Pharmacia Lettre	0975-5071	281-287	2016
7	Synthesis and Characterization of Magnetite-PolyanilineNanocomposite.	Journal of Science Information. Special issue 9	2229-5836	51-55	2014
8	Structural Properties of Cobalt substituted Nickel Ferrite NiO <sub>6</sub> CoO <sub>4</sub> Fe <sub>2</sub> O <sub>4</sub> Anneled with Sodium Halides.	Journal of Science Information. Special issue 9	2229-5836	95-98	2014
9	Ultrasonic Studies of Intermolecular Interaction of Dextrose in Aqueous Medium at 303.15 K	Journal of Science Information. Special issue 9	2229-5836	111-113	2014
10	Application of activated carbon derived from Caster fruit shell as green environmental material	International journal of Researches in Biosciences, Agriculture and Technology	2347-517X	1121-1130	2014
11	Synthesis and Characterization of	International journal of	2347-517X	58-65	



	Magnetite-Polyaniline using Chemical Precipitation Method	Researches in Biosciences, Agriculture and Technology			2014
12	Degradation of Azo Dye Congo Red Using NiO <sub>4</sub> CoO <sub>6</sub> Fe <sub>2</sub> O <sub>4</sub> as photocatalyst	International journal of Researches in Biosciences, Agriculture and Technology	2347-517X	795-803	2014
13	Ultrasonic Studies of Intermolecular Interactions of Dextrose and Fructose in alcoholic medium at three different temperatures	International journal of Science and Research IJSR	2319- 7064	282-285	2013
14	Application of CFFSAC as a New Adsorbent Material for Cd(II) Removal.	International Journal of Chemical and Physical Sciences	2319-6602	116-121	2015
15	Application of Activated Carbon derived from Acacia nilotica Fruit Shell	International journal of Researches in biosciences, Agriculture and Technology	2347-517X	71-76	2015
16	Removal of Carcinogenic Cr(VI) using CajanuscajanPericarp Activated carbon	International Journal of Recent Scientific Research	0976-3031	1654-1657	2015
17	Synthesis of ZnO Nanomaterial by Precipitation Method and its Characterization.	International Journal of Chemical and Physical Sciences IJCPS	2319-6602	432-438	2015
18	Synthesis, Characterization and application of New Terpolymeric Resins.	International Journal of Research in Engineering and Applied Sciences IJREAS	2249-3905	48-54	2015
19	Green Synthesis of Itaconic Acids from Stobbe Condensation Method.	International Journal of Chemistry and Pharmaceutical Sciences IJCPS	2321-3132	2163-2168	2015
20	Green Synthesis of Fulgenic Acids via Aryl Aldehyde and Ketones from Stobbe condensation Method.	International Journal of Chemistry and Pharmaceutical Sciences	2321-3132	1431-1435	2015
21	Green Synthesis of Fulgenic Acids from Stobbe condensation Method.	International Journal of Chemistry and Pharmaceutical Sciences IJCPS	2321-3132	1431-1436	2015
22	Green Synthesis of Fulgenic Acid from Benzaldehyde and formaldehyde via Stobbe condensation Method.	International Journal of Researches in Biosciences, Agriculture and Technology(IJRBAT Special Issue-(6))	2347-517X	242-245	2016
23	Structural and optical properties of CdO Nanomaterial synthesized by autoclave combustion method.	International Journal of Researches in Biosciences, Agriculture and Technology(IJRBAT Special Issue-(6))	2347-517X	246-248	2016
24	Compressibility of solute (dextrose and inositol) Particles in liquid mixtures by Ultrasonic Methods	NSAMA- National Conference on Novel Synthesis of Advanced Materials and Their Applications		58-60	2015
25	Photocatalytic activity of ZnO nanoparticles for the degradation of organic pollutant Methyl Orange	NCAM- National Conference on Advanced Materials	978-93-81432-70-9	207-209	2014
26	Enhanced Photodegradation of Congo-red using novel mixed metal ferrite	National Conference on Novel Synthesis of Advanced material	978-93-82962-51-9	173-176	2015
27	Synthesis and characterization of ZnO nanostructure material and	NCFAC- National Conference on Frontier Areas	978-81-92962-3-0	8-10	2014



	study of its photocatalytic activity	in Chemistry			
28	Effect of P <sup>H</sup> on substituted Ni Partical size of cobalt Ferrite	NCFAC- National Conference on Frontier Areas in Chemistry	978-81-92962-3-0	123-125	2014

**Dr.W.B.Gurnule (Department of Chemistry)**

Sr. No	Title of Research Paper	Name of the Journal	ISSN/ISBN no	Page No	Year
1	An eco-friendly synthesis, characterization, morphology and ion exchange properties of terpolymer resin derived from p-hydroxybenzaldehyde	Arabian J. Chemistry, ( I.F. 4.61)	ISSN: 1878-5352	S648-S658	2016
2	Thermal degradation kinetics and antimicrobial studies of terpolymer resins	Arabian J. Chemistry, ( I.F. 4.61)	ISSN: 1878-5352	S296-S305	2016
3	Meghna H. Jumde and W. B. Gurnule, Chromatographic separation of Toxic Heavy Metals ions on Silica Gel-G,	Proceeding of NCARTS		23-27	2016
4	Seperation and Identification of Toxic Heavy metal ions by Thin Layer Chromatography,	Inter. J. Adv. Sci. Engg. Tech.	ISSN: 2005-4238	52-53	2015
5	Seperation and Identification of Heavy metal ions by thin layer chromatography on silica gel G of Environmental Sambles, Der Pharma Chemica,	Der Pharma Chemica,	ISSN:0975-413X	409-414	2015
6	Seperation and Identification of Heavy Metal Ions by Thin Layer Chromatography on Silica Gel_G,.	J. chem.. pharma. Res	ISSN : 0975-7384	889-895	2015
7	Thermal Degradation and Critical Studies of the Isoconventional Methods of Kinetic Analysis 8-HQ 5-SASF_III Polymer, Int. J. Res. Biosci. Agri. Techn.,	Int. J. Res. Biosci. Agri. Techn.	ISSN: 0975 - 4539	255-266	2015
8	Synthesis, Spectral, Morphology and Thermal Degradation Kinetics Studies of Copolymer, Chem. Sci. Rev. Lett.,	Chem. Sci. Rev. Lett.,	ISSN 2278-6783	603-607	2015
9	2014-15 Synthesis and Characterization of Copolymer Resin derived from pthallic acid and Melamine	Rasayan J. Chem	ISSN: 0974-1496	413-419	2014
10	Removal of cations using ion-binding copolymer involving 8-Hydroxyquinoline 5-sulphonic acid and Semicarbazide with Formaldeyde by Batch Equilibrium Technique, J. Chem, Pharm. Res.,	J. Chem, Pharm. Res.,	ISSN : 0975-7384	364-374	2014
11	Thermal Degradation Studies of High Performance Copolymer Resin Derived from 8-Hydroxyquinoline 5-sulphonic acid, Semicarbazide and Formaldehyde	Der. Pharm. Chem	ISSN:0975-413X	Vol 6(5),	2014
12	Synthesis, Characterization and Thermal Degradation Studies of Copolymer Resin Derived from 8-Hydroxyquinoline 5-sulphonic acid and Thiosemicarbazide	Res. J. Pharm. Chem. Biol, Sci	ISSN:0975-8585	Vol 5(6)	2014
13	Synthesis, Characterization and	Emerging	ISSN 2046-	Vol. 3(6),	2014



	Thermal Degradation Studies of Copolymer Resin, ,	Material Res.	0147	1-7	
14	Synthesis, Characterization and thermogravimetric studies of Polymer resin derived from 4-hydroxybenzaldehyde and Phenyl hydrazine , Department of Physics, J.M. Patel Arts, Commerce and Science College , Bhandara	Proceeding of UGC Sponsored National Conference, Bhandara	ISBN 978-93-81432-62-4	58-64	2014.
15	Electrical Conductance studies of 4-Hydroxybenzophenone- Biuret – Formaldehyde Copolymer, J.M. Patel Arts, Commerce and Science College , Bhandara. Proceeding of UGC Sponsored National Conference :,	Proceeding of UGC Sponsored National Conference, Bhandara	ISBN 978-93-81432-62-4	71-77 ,	2014
16	Thermogravimetric Study of 8-Hydroxyquinoline 5- Sulphonic Acid – Dithiooxamide – formaldehyde Polymer;:,	UGC sponcered national conference on advance material , Department of Physics, Nabira Mahavidyalaya, Katol	ISBN : 9789381432709	29-32,	2014
17	Synthesis and Semiconducting studies of 2- Hydroxyacetophenone – formaldehyde – melamine copolymer, UGC sponcered national conference on advance material , Department of Physics, Nabira Mahavidyalaya, Katol	UGC sponcered national conference on advance material , Department of Physics, Nabira Mahavidyalaya, Katol	ISBN : 9789381432709	59-61	2014
18	<u>2013-14</u> Antimicrobial Studies and Ion Exchange Properties of Copolymer Resin Derived from p-HBBF, 2014.	Emerging Material Research	ISSN 2046-0147	Vol. 3(4), 1-7	2014
19	Electrical Conductance Properties of a Copolymer Resin: Synthesis, Characterization and Its Applications,	Res. J. Pharma. Biol. Chem. Sci.	ISSN:0975-8585	737-747	2014
20	Kinetics of thermal decomposition of Copolymer resin-II derived from 4-hydroxylbenzaldehyde, Phenyl hydrazine and Formaldehyde, Res. J. Pharma. Biol. Chem. Sci.	Res. J. Pharma. Biol. Chem. Sci.	ISSN:0975-8585	1283-1298	2014
21	Chelation of ion-exchange properties of copolymer resin derived from 2,2'-dihydroxybiphenyl, biuret, and formaldehyde,	Desalination and Water Treatment,	ISSN: 1944-3994	1-10	2014
22	Studies of Chelation Ion-Exchange Properties of Terpolymer Resin Derived From 8-Hydroxyquinoline and Dithiooxamide, International	Journal of Researches in Biosciences, Agriculture & Technology	ISSN No.2347-517X	376-391	2014,
23	Thermal Degradation Studies of 8-Hydroxyquinoline, Adipamide and Formaldehyde Copolymer Resin, Res. J. Pharma. Biol. Chem Sci, Vol 5(20) 2014, 204-213				



24	Synthesis and Analytical Application of Copolymer Resin Derived from Melamine, , Vol. 1(1) 2013,	International Journal of Researches in Biosciences, Agriculture & Technology	ISSN No.2347-517X	97-111.	2013
25	Kinetic study of themal breakdown of 2,4- dihydroxy benzoic acid – adipamide copolymer	National conference on synthesis and Applications of Novel Material, Department of Physics , VMV commerce , JMT Art and JJP Science College Nagpur	ISSN 2229-4554,.	121-124	2013
26	Synthesis, Characterization, Morphology, Thermal, Electrical and Chelation Ion-Exchange Properties of a Copolymer Resin	J. Environ. Res. Develop	ISSN: PARIS ISSN 0973-6921	1183-1192	2013
27	Sorption Investigation on the Removal of Metal Ions from Aqueous Solution using Chelating Terpolymer Resin	Journal of Science Information,	ISSN: 2229-5836	48-51	2013
28	Thermodynamic and Kinetic Studies of 8-HQ5-SAMF Rein-IV, Journal of Science Information, Sp.6, , (2013) [ ISSN: 2229-5836].	Journal of Science Information	ISSN: 2229-5836	13-16	2013
29	Synthesis, Characterization and Their Semiconducting Stueis of 2,4-Dihydroxyacetophenone, Catechol and Formaldehyde	Proceeding of National Conference on Advanced Research Trends in Science, Organized by G.H. Raisoni College of Engineering Nagpur,	ISBN: 978-93-5087-7	20-30	2013
30	Thermoanalytical Studies of Newly Synthesized Copolymer Derived from p-Hydroxy benzoic acid, Semicarbazide and Formaldehyde, Proceeding of National Conference on Advanced Research Trends in Science, Organized by G.H. Raisoni College of Engineering Nagpur, January 2013,CS-11, Page, (2013) [ ISBN: 978-93-5087-7].	Proceeding of National Conference on Advanced Research Trends in Science, Organized by G.H. Raisoni College of Engineering Nagpur	ISBN: 978-93-5087-7	36-42	2013
31	Selective Removal from Toxic Metals from Waste Water using 2,4-Dihydroxypropiophenone-Adipamide-Formaldehyde Polymeric Chelating Resin, , 7(2), , (2012).	J. Environ. Res. Develop.	ISSN	622-632	2012
32	Selective Removal of Toxic Metals from Waste Waterusing Phenol-	Proceeding of UGC	ISBN : 978-93-82-35-12-2	36-49	2012



	Formaldehyde Polymer Resin,	Sponsored National Seminar on Recent Trend in Chemical and Geological Sciences and Its Relevance to Environmental Conservation, at Mahatma Gandhi Arts Science and Commerce College, Armori			
33	Novel Polymeric Adsorbents Bearing 2,4-dihydroxy benzoic Acid Binding Sites for Removal of Cu(II) and Pb(II) ions from Aqueous Solution, Proceeding of UGC Sponsored National Seminar on Recent Trend in Chemical and Geological Sciences and Its Relevance to Environmental Conservation, at Mahatma Gandhi Arts Science and Commerce College, Armori,	Proceeding of UGC Sponsored National Seminar on Recent Trend in Chemical and Geological Sciences and Its Relevance to Environmental Conservation, at Mahatma Gandhi Arts Science and Commerce College, Armori	ISBN : 978-93-82-35-12-2	22-28	2012
34	Study of Semiconducting Nature of p-CMF IV Polymer,	Proceeding of UGC Sponsored National Seminar on Recent Trend in Chemical and Geological Sciences and Its Relevance to Environmental Conservation, at Mahatma Gandhi Arts Science and Commerce College, Armori	ISBN : 978-93-82-35-12-2	15-21	2012
35	Synthesis and Characterization of Resin-II Derived from 2-Hydroxyacetophenone, Catechol and Formaldehyde	Asian J. of Biochem. Pharma. Res.	ISSN: 2231-2560	99-108	2012
36	Ion-exchange Properties of 8-Hydroxyquinoline-Dithiooxamide-Formaldehyde Terpolymer Resin ( 8-HQDF),	Der Pharma Letter,	ISSN 0975-5071	1360-1366	2012
37	Synthesis and Thermogravimetric Analysis of Terpolymer Resins Derived	Der Pharma Letter,	ISSN 0975-5071	1836-1846	2012



	from Salicylaldehyde, Melamine and Formaldehyde				
38	Synthesis, Thermal and Electrical Properties of 2,2'-HBBF Copolymer Resin, Vol 2(1), (2013). [].	Chem. Sci. Trans.	ISSN 2278-3458	287-293,	2013
39	2012-13 Preparation of Novel Chelating Resin Containing 2,4-Dihydroxypropiophenone-Adipamide and Its Recovery Properties for Iron Ions in Aqueous Solution, Vol. 1(IV), (2012) []	Journal of Biological & Physical Sciences	ISSN :2319-636X	59-66	2012
40	Thermoanalytical Study and Kinetics of New o-Aminophenol-Urea-Formaldehyde Copolymer Resin, Journal of Material Science, Special issue, (2012) [].	Bionano Frontier,	ISSN 0974-0678	34-38	2012
41	Synthesis, Characterization and Thermal Degradation Studies of Polymer Resin Derived from 4-Hydroxyacetophenone and Catechol, 3(4), (2012). [].	Res. J. Pharma. Bio. Chem. Science,	ISSN: 0975-8585	534-544	2012
42	Synthesis of Non-Isothermal Kinetics Studies of Novel SATF-II Copolymer Derived from Salicylic acid and Thiosemicarbazide,	J. Pharma. Bio. Chem. Science,	ISSN: 0975-8585	552-561	2012
43	Studies of Chelation Ion-exchange Properties of Copolymer Resin Derived from p-cresol, Dithioamide and Formaldehyde,	J. Environ. Res. Develop	ISSN:	1-8	2012
44	Selective Removal of Toxic Metal Ions from Waste Water using Phenol-Formaldehyde Type Chelating Resin	Rasayan Journal of Chemistry	ISSN 0974-1496	365-375	2012
45	Synthesis and Semiconducting Studies of 2-Hydroxyacetophenone-Formaldehyde-Melamine Copolymers	Recent Research in Science and Technology	ISSN 0975-5071	67-69	2012
46	Ion exchange properties of 8-Hydroxyquinoline-Dithioamide-Formaldehyde Terpolymer Resin (8-HQDF)	Der Pharma Letter	ISSN 0975-5071		2012
47	Terpolymerization of 2-Hydroxyacetophenone, Catechol and Formaldehyde and its thermal Studies, Journal of Chemical and Pharmaceutical Research, 4(7), (2012).	Journal of Chemical and Pharmaceutical Research	ISSN 0975-7384	3651-3658	2012
48	Thermal Degradation Studies of New Polymer derived from 8-Hydroxyquinoline 5-sulphonic acid and Catechol,	Der Pharma Chemica	ISSN:0975-413X		2012
49	Thermogravimetric Studies and kinetics of Newly Synthesized Copolymer derived from p-hydroxy benzoic acid and Semicarbazide,	Rasayan Journal of Chemistry,	ISSN 0974-1496	261-268	2012
50	Antimicrobial Screening and Thermoanalytical Studies of Newly Synthesized Copolymer Derived from	Journal of Chemical and Pharmaceutical	ISSN : 0975-7384	3628-2636	2012



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51	Thermal Behaviour of Newly Synthesized Copolymer Derived from Salicylic acid, and Thiosemicarbazide,	Der Pharma Chemica Journal	ISSN:0975-413X		2012
52	Sorption Investigation on the Removal of Metal Ions from Aqueous Solution using Chelating Copolymer Resin	International Journal of Environment and Resource(IJER)	ISS 1735-N 6865	16-25	2012
53	Thermal and Electrical Properties of 2, 2' HBBF copolymer Resin	Chemical Sci. Transaction Journal	ISSN 2278-3318		2012
54	Studies of Electrical Conductivity and Photoluminescence Behaviour of Newly Synthesized Copolymer Resin Derived from p-Hydroxybenzaldehyde	Proceeding of National Conference on Laser and Advanced Materials	ISBN No. 978-81-922256-6-1	51-53	2012
55	Electrical Properties of Organic Polymers Derived from 2-Hydroxy 4-methoxybenzophenone, 1,5-Diaminonaphthalene and Formaldehyde	Sci. Revs. Chem. Commun.	ISSN No. 2277-2669	372-376	2012
56	Synthesis, Characterization and Thermal Degradation Studies of Copolymer Derived Salicyladehyde, Melamine and Formaldehyde	Sci. Revs. Chem. Commun.,	ISSN No. 2277-2669	403-408	2012
57	Ion-Exchange Properties of Copolymer Resin Derived from 2,4-Dihydroxybenzoic acid, Melamine and Formaldehyde	Sci. Revs. Chem. Commun.,	ISSN No. 2277-2669	395-402	2012
58	Sorption investigation on the removal of metal ion from aqueous solution using chelating copolymer resin derived from 2,4 Dihydroxybenzoic acid	Journal of Scientific and Technical Research,	ISSN No. 2278-3350	15-23	2012
59	Studies of Chelation Ion-Exchange Properties of Copolymer Resin Derived from p-Cresol, Dithiooxamide and Formaldehyde,	J. Chem. Pharma. Res	ISSN: 0975-7384	2193-2203	2012
60	Photoluminescence Study of Terpolymer Metal Complex Synthesized from 4-Hydroxybenzophenone, Biuret and Fornmaldehyde	J. Chem. Pharma. Res.	ISSN: 0975-7384	2118-2121	2012
61	Preparation, Characterization and Chelation Ion-exchange Properties of Copolymer Resin Derived from 2,4-dihydroxy benzoic acid, Ethylene diamine and Formaldehyde	Der Pharma Chemica,	ISSN:0975-413X	791-799	2012
62	Synthesis of Nanoporou Polymer II from o-Aminophenol and Melamine: A Review on Prospects for Green Polymer Chemistry	Proceeding of UGC Sponsored National Congress on Stepping up with	ISBN: 978-81-903603-9-5	185-188	2012





		Bioscientific Technologies			
63	Biological Activity and Ion exchange Properties of Copolymer Resin Derived from p-Hydroxybenzaldehyde and Biuret, Proceeding of UGC Sponsored National Congress on Stepping up with Bioscientific Technologies, Page-171-191, 27-28 <sup>th</sup> Jan. 2012, ISBN: 978-81-903603-9-5. (),	Proceeding of UGC Sponsored National Congress on Stepping up with Bioscientific Technologies	ISBN: 978-81-903603-9-5	171-191	2012
64	Investigation of Thermal Behaviour of Organic Polymer Derived from 2,4-Dihydroxyacetophenone and Melamine	Bio-Nano Frontier	ISSN No. 0974-0678.	423-428	2012
65	Electrical Conductance Studies of Novel Nanoporous o-Aminophenol-Melamine-Formaldehyde Copolymer	Bio-Nano Frontier	ISSN No. 0974-0678	228-230	2012
66	Synthesis of p-CMF Terpolymer Resin-IV as an Ion-exchanger, Bio-Nano Frontier,	Bio-Nano Frontier	ISSN No. 0974-0678	222-227	2012
67	Synthesis and Morphology of Zinc Doped Cobalt Ferrite in present Surfactant at Different Calcination Temperature by Co-precipitation Route, Bio-Nano Frontier, Vol 5, , (2012), ISSN No. 0974-0678	Bio-Nano Frontier	ISSN No. 0974-0678	379-383	2012.

#### Dr. M. S.Wagh(Departmaent of Chemistry)

Sr. No	Title of Research Paper	Name of the Journal	ISSN/ISBN no	Page No	Year
1	Ultrasonic Investigations in some Thiosemicarbazides & Thioxadizenes in different conditions	Bionano Frontier	ISSN 0974-0678	19-21	2012-13
2	Studies on the effect of some thiosemicarbazides on the germination pattern of Brassica campestris (L.)	Pelagia Research Library	0976-8505	273-280	2012-13
3	Studies on the effect of some Thiosemicarbazide and Thioxadizine on the behaviou during mitosis in the root tip of allium cepa.	Universal Journal of Pharmacy	2320-303x	131-134	2013-14
4	Molecular Interaction studies in Phenol-Water system at its Critical Solution Temperature	International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS)	2279-0055	225-227	2013-14
5	Acoustical Studies of Some Thiosemicarbazides and Thioxadizines in Different Percentage of Solvents	International Journal of Researches in Biosciences, Agriculture and	2319-7064	130-133	2014-15



		Technology(IJ RBAT Special Issue-(6) Oct.2015			
6.	On Conformally Flat Non-Static Spherically Symmetric Perfect Fluid Distributions in General Relativity	IJCMS	ISSN 2347 – 8527	27-37	2016
7.	The Spherically Symmetric Charged Perfect Fluid Distribution	(ICITESM-16)	ISSN 2349-4476	146-149	2016
8.	The Conformally Flat Non-Static Spherically Symmetric Perfect Fluid Distributions in General Relativity	(ICITESM-16)	ISSN 2349-4476	111-115	2016

### Prof. Vandana R. Kharabe (Department of Physics)

Sr.N	Title of Research Paper	Name of the Journal	ISSN/ISBN no	Page No	Year
1	Synthesis and Photoluminescence of $\text{CaAlBO}_4:\text{RE}^{3+}$ (RE=Dy & Eu) Phosphor	International Journal of Science and Research(IJSR)	4.43	525-529	2013
2	Synthesis ,PL characterization and concentration quenching effect in $\text{Dy}^{3+}$ and $\text{Eu}^{3+}$ activated $\text{LiCaBO}_3$ Phosphor	Journal of Biological and Chemical Luminescence	1.72		2014
3	Photoluminescence study in $\text{Ce}^{3+}$ activated $\text{M}_6\text{B}_5\text{AlO}_{15}$ (M=Sr,Ca,Ba) and mixed host aluminate phosphors	Optik-Int.J.Light Electron	0.73		2014
4	Synthesis and characterization of $\text{MgAlBO}_4:\text{Eu}$ phosphor	Bionano Frontier	0974-0678	41-44	2012
5	Synthesis and Photoluminescence characteristics of $\text{MgAlBO}_4:\text{Dy}$ Phosphor	Journal of Science Information	2229-5836	181-183	2014
6	Synthesis and Characterization of $\text{MBaBO}_3$ (M=Li/K):Dy/Sm Phosphors	Bionano Frontier Journal	0974-0678		2017
7	Blue emission of $\text{Ce}^{3+}$ ions in $\text{Sr}_6\text{B}_5\text{AlO}_{15}$ and $\text{Ca}_6\text{B}_5\text{AlO}_{15}$ boroaluminate phosphor	RGUKT, Hyderabad	81-6717-806-5		2012
8	Synthesis & characterization of $\text{NaSrBO}_3:\text{Eu}^{3+}$ phosphor for LED	Current Developments in Nanoscience: Challenges and Opportunities Dept. of Physics, Kamla Nehru Mahavidyalaya , Nagpur	9789-3814-32563	47-49	2013

### Dr. Sunil Bhagat (Department of Physics)

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN no	Page No	Year
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1	“Microstructures on glycinemaliec monoamide(GMMA) organic crystals”	National Journal Bionano Frontiers, vol.5, 2-3jan 2012,	ISSN 0974-0678	Page 153-156,	2012
2	“Study of photo physical properties of different metal complexes”	Luminiscence J. Biological. Chemical luminiscence, 2012, vol.28, iss.5,	(wileyonline library.com), DOI 10.1002/bio.2431	I.F1.72 Page 755-759	Sept-oct 2013
3	“Synthesis an charecterisations of pure and Li+ activated Alq3 complexes for green and blue organic light emitting diodes and display devices”	Luminiscence J. Biological. Chemical luminiscence, Aug.2014, vol.29, iss.5,	(wileyonline library.com) DOI 10.1002/bio.2566	I.F 1.72 Page 433-439	August 2014
4	“Na+ doped Alq3 hybrid materials for organic light emitting diodes (OLED) devices and flat panel displays”	Luminiscence J. Biological. Chemical luminiscence, may2015, vol.30, iss.3,	wileyonlinelibrary.com) DOI 10.1002/bio.2721	I.F 1.72 Page 251-256	May 2015
5	“Study of photo physical properties of AlBaq5”	Optik Vol 25, Issue5,	<a href="http://www.elsevier.de/ijleo">www.elsevier.de/ijleo</a> Optik 125	I.F 0.72 Page 3813–3817	August 2014
6	“UV_VIS spectrum of Sr++ doped alq3 OLED organic phosphor”	International Journal of Science and Research (IJSR)	ISSN (Online): 2319-7064, <a href="http://www.ijsr.net">www.ijsr.net</a>	I. F. 4.438 Page 512-514	2015
7	“FTIR spectroscopy of Ca++ doped alq3 OLED phosphor”	International Journal of Science and Research (IJSR), P509-511	ISSN (Online): 2319-7064, <a href="http://www.ijsr.net">www.ijsr.net</a>	I. F. 4.438	2015
8	“Synthesis of Zn Doped Alq3 Blue OLED Organic nanoPhosphor”	International Journal of Research bioscience,agriculture technology	ISSN(Online) 2347- 517X	Page 1-4	Feb, 2015
9	‘Photoluminescence properties of Mn2+ doped Alq3 organic phosphors for OLED devices and flat panel displays’	International Journal of Research In Science & Engineering	ISSN: 2394-8299 <a href="http://www.ijrise.org/ editor@ijrise.org">www.ijrise.org/ editor@ijrise.org</a>	I. F. 2.13 Page 346-352	June 2016



10	"UV -vis spectrum of K <sup>+</sup> doped Alq <sub>3</sub> OLED Phosphor"	Current development in Nanoscience challenges and opportunities (NCCDN-2013) Kamla Nehru Mahavidyalaya, Nagpur	9789-3814-32563	Page63-66,	14 <sup>th</sup> Sept.2013
11	"Thermal etching: glycine malic mono amide organic crystals"	Current development in Nanoscience challenges and opportunities (NCCDN-2013) Kamla Nehru Mahavidyalaya, Nagpur	9789-3814-32563	Page143-146,	14 <sup>th</sup> Sept.2013
12	"Plastic deformation and glide bands in GMMA organic crystals"	"Synthesis and Applications of Novel Materials" VMV College, Nagpur	2229-4554	Page133-135,	Oct 05, 2013
13	"UV -Vis characteristic of Sr <sup>++</sup> doped Alq <sub>3</sub> OLED phosphor"	"Synthesis and Applications of Novel Materials" VMV College Nagpur	2229-4554	Page190-192,	Oct 05,2013.
14	"FTIR haracteristic of Sr <sup>++</sup> doped Alq <sub>3</sub> OLED phosphor"	UGC sponsored national conference on "Advanced Materials", Nabira Mahavidyalaya, Katol	978-938-143-2709	Page107-109,	Mar 01, 2014
15	"FTIR characteristic of Sr <sup>++</sup> doped Alq <sub>3</sub> OLED phosphor"	Recent Development in Material Science and Technology (RDMST – 2014) Art, Commerce and Science College, Koradi, Nagpur	978-81-926487-3-6	Page178-180,	2014 Oct 11 <sup>th</sup>
16	"Optical properties of zinc doped Alq <sub>3</sub> organic phosphor for green organic light emitting diodes"	"Novel synthesis of Advanced Materials" (NCNSAM-2014), D.B. Science College, Gondia,	978-93-82962-51-9	Page62-65,	Dec 20th 2014



**Dr. Suresh Puppulwar (Department of Physics)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN no	Page No	Year
1	Fluorescence properties of red-emitting SrYAl <sub>3</sub> O <sub>7</sub> : Eu <sup>3+</sup> nano phosphor.	International Journal of Luminescence and Applications	2277 – 6362	187-190	2016
2	Tunable luminescence properties and energy transfer in LaAl <sub>11</sub> O <sub>18</sub> : Eu, Tb phosphor.	Luminescence: J. Biological and Chemical Luminescence. (John Willey)	1522-7243	881-887	2016
3	Synthesis and Optical Properties of Eu <sup>3+</sup> Activated YAlO <sub>3</sub> Red Phosphor	J. Science and Research	2319-7064	436-439	2015
4	Luminescent properties of LiBaPO <sub>4</sub> :M <sup>3+</sup> phosphor for near-UV light-emitting diode (M=Eu and Dy).	J. Biological and Chemical Luminescence, (John Willey)	1522-7243	745-750	2015
5	Luminescent properties of MAl(SO <sub>4</sub> ) <sub>2</sub> Br:Eu <sup>3+</sup> (M = Sr or Mg) red phosphors for near- UV light – emitting diodes.	J. Biological and Chemical Luminescence. (John Willey)	1522-7243	118-121	2015
6	Optical properties of CaAl(SO <sub>4</sub> ) <sub>2</sub> Br:RE (RE = Dy, Eu, Ce) novel phosphors.	J. Biological and Chemical Luminescence. (John Willey)	1522-7243	609-613	2014
7	Development of high sensitive LiNaSO <sub>4</sub> : Cu, Mg phosphor for TL dosimetry.	Journal of Luminescence (Elsevier)	0022-2313	245–251	2013
8	Photoluminescence in rare earth doped complex hexafluoride phosphors.	J. Biological and Chemical Luminescence. (John Willey)	1522-7243	39-44	2012
9	Luminescence characteristics of Li <sub>2</sub> NaBF <sub>6</sub> : Cu phosphor.	Nuclear Inst. and Methods in Physics Research, B.(Elsevier)	0168-583X	167-171	2012
10	Luminescence characteristics of Eu and Ti doped LiNaF <sub>2</sub> phosphor.	Nuclear Inst. and Methods in Physics Research B. (Elsevier)	0168-583X	6 - 10	2012
11	Cu <sup>+</sup> emission in Li <sub>2</sub> BPO <sub>5</sub> material for thermo- luminescence dosimetry.	Radiation Effects and Defects in Solids. (Taylor and Francis)	1042-0150	333-341	2012
12	One step synthesis of Cu <sup>+</sup> activated Li <sub>2</sub> BPO <sub>5</sub> low Z phosphor for thermoluminescence dosimetry.	Indian Journal of Pure and Applied Physics.	0019-5596	520-523	2012
13	Determination of kinetic parameters of TL of Eu doped LiNaF <sub>2</sub> .	Indian Journal of Pure and Applied Physics.	0019-5596	855-858	2012
14	Luminescence and energy transfer in	Challenges and Opportunities in	-	18-22	2013



	CaAl <sub>2</sub> O <sub>4</sub> :Ce <sup>3+</sup> , Mn <sup>2+</sup> phosphor	Development of Nanoscience, Kamla Nehru Mahavidyalaya Nagpur			
15	Optical properties of Dy <sup>3+</sup> activated Li <sub>2</sub> Sr <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> phosphor	Challenges and Opportunities in Development of Nanoscience, Kamla Nehru Mahavidyalaya Nagpur	-	88-91	2013
16	Optical properties of Dy <sup>3+</sup> activated Li <sub>2</sub> CaSiO <sub>4</sub> phosphor	National conference on Synthesis and Applications of Novel Materials, VMV College Nagpur	-	104-106	2013
17	Synthesis and photoluminescence of SrAl <sub>2</sub> O <sub>4</sub> :Pb <sup>2+</sup> phosphor	National conference on Synthesis of Materials: Characterization and Applications, J. M. Patel Arts, Commerce and Science College Bhandara	-		2013
18	Luminescent properties of Eu <sup>3+</sup> doped LaSrAl <sub>3</sub> O <sub>7</sub> red phosphor	National conference on Advanced Materials, Nabira Mahavidyalaya Katol	-	96-98	2014
19	Fluorescence properties of M <sub>2</sub> B <sub>5</sub> O <sub>9</sub> Br: Eu <sup>3+</sup> (M=Ba/Ca) phosphors	National conference on Novel Synthesis of Advanced Materials, Dhote Bandhu Science College Gondia	-	231-236	2014

#### Dr.Dilip S. Badwaik (Department of Physics)

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	“Effect of Heat Treatment on Structural and Optical Behaviour of Y –Type SrNi Nano Hexaferrites”, Vijay V. Warhate, Dilip S. Badwaik	Journal of Science Information,		Special Issue 9 (Feb. 2014) 40- 43	2014
2	“Study of specific capacitance, electrical conductivity and mechanical strength of polyaniline-	International Journal of Researches in	2347-517X	Special Issue II Feb	2015



	(Derivative of) Graphine nanocomposites”, Prerna Modak, Deoram Nandanwar ,Subhash Kondawar , Dilip Badwaik	Bioscience, Agriculture and Technology.		2015. pp114-118	
3	International Journal of Researches in Bioscience, Agriculture and Technology.	“ Structural Studies and Dielectric Dispersion of SrNiZn Mixed nano hexaferrites at low frequencies”, Dilip Badwaik, Vandana Badwaik, Fulchand Nirwan, Devrao Nanadnwar	2347-517X	Special Issue II Feb 2015. PP38-45	2015
4	“The Effect of Mg Substitution on Structural and Dielectric Behaviour of Srozn Mixed Nano Hexaferrites”, Dilip Badwaik, Vandana Badwaik, Halim Ahamad, Shesh Chopne	International Journal of Science and Research (IJSR), Impact Factor (2013): 4.438	ISSN (Online): 2319-7064	2319-7064	2013
5	“The Structural, Dielectric and AC Conductivity Studies of TiCo Substituted Sr2NiZn Y-Type Hexa Nanoferrites”, Vijay V. Warhate, Dilip S. Badwaik	International Journal of Science and Research (IJSR) ISSN (Online):, Impact Factor (2013): 4.438	2319-7064	2319-7064	2013
6	“The Structural, Dielectric and ac conductivity Studies of SrCu Y-Type Hexa Nanoferrite Substituted by Magnesium	CSIR sponsored national Conference on “ Current Developmants in Nanoscience : Challenges and Oppotunities”Ka mla Nehru Mahavidyalaya, Nagpur.	ISBN 9789-3814-325563	23-27	Sept. 14, 2013
7	“Frequency Dependence Dielectric Behavior of Y-Type SrZn Nano Hexaferrites Substituted with Cobalt”	CSIR sponsored national Conference on “ Current Developmants in Nanoscience : Challenges and Oppotunities” Kamlu Nehru Mahavidyalaya, Nagpur.	ISBN 9789-3814-325563	77-80	Sept. 14, 2013
8	“ Study on AC Electrical Conductivity of Carbon Nanotube Reinforced Polyaniline Nanocomposites”	UGC sponsored national Conference on “ Synthesis and	ISSN 2229-4554	225-228	Oct. 5, 2013



		Applications of Novel Materials” VMV Commerce, JMT Arts and JJP Science College, Nagpur			
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**Dr. Ashish Mahajan (Department of Physics)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Urease immobilized polypyrrole/ multi walled carbon nanotubes composite biosensor for heavy metal ions detection	Journal of Chinese Advanced Materail Vo II, Issue IV	ISSN: 2224-3682	223-235	2014
2	Polyaniline /MnO <sub>2</sub> nanocomposites based stainless steel electrode modified enzymatic urease biosensor	Procedia of material science (Elsevier)	2211-8128	699-705	2015

**Dr. P. B. Dahikar (Department of Electronics)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Design And Development Of Novel Weighing Scale System	International Jouranls of Engineeering Research and Technology (IJERT)	ISSN: 2278-0181	Vol. 2 Issue 5, 25 <sup>th</sup> May 2013 IF 1.76	2013
2	Bioinformatics: A revolutionary way of using Computer technology for evidence based medicine	International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)	ISSN (Online) : 2278-1021	PP. 622 – 626 , IF 4.5 82	2012
3	RF Remote control of power line devices using embedded system	International Paper ID-IJESIT1909201203_812 Published in IJESIT,	ISSN:231-5967 www.ijesit.com	p.no.- 238 IF 1.913 (ISRA)	2013
4	The Healthcare Delivery Model: Rise of Wearable Medical Sensors in building EMR Applications	International Journal of Scientific & Engineering Research, (IJSER)	ISSN 2229-5518	PP.1 - 4 IF 3.2	2012
5	A Business Case of Telecardiology : Efficacy of The Solution for Business Service Providers	International Journal of Electronics Communication and Computer Engineering (IJECCE)	ISSN (Online): 2249-071X	PP. 1134 – 1137 IF (UIF) :1.0909	2012
6	Biomedical Technology:	International Journal of	ISN: 2277–	PP. 18 –	2012





	The transforming paradigm of Healthcare Industry with its impact on Patient Monitoring System	Computers & Technology (IJCT)	3061	20 IF <a href="#">1.392</a> Indexed	
7	Can Electronic Medical Record Systems Transform Health Care? Potential Health Benefits, Savings, and Cost Using Latest Advancements in ICT for Better interactive Healthcare Learning	International Journal of Computer Science & Communication Networks (IJCSCN)	ISSN:249-5789	PP.453 – 455 IC Value 5.09	201
8	Data Analysis Of EMR, In Distributed Database With Respect To Today's E-Health Apps	International Journal of Computer Science & Communication Networks (IJCSCN)	ISSN:2249-5789 IC	PP.304 – 306 Value 5.09	2012
9	The e-Health scenario with latest trends in EMR applications: A Review of EMR techniques with healthcare framework	International Journal Of Computational Engineering Research (IJCER)	ISSN: 2250–3005	PP.667 – 670 Issue-3 IF 3. 2	2012
10	A Review of Semantic Network based System Architecture for Remote Medical Applications: Efficacy & Applicability	International Journal of Computer Applications & Information Technology (IJCAIT)	ISSN: 2278–7720	PP.45 – 49 IF 0.405 (As per Global Impact Factor)	2012
12	CAMH: Towards a Multilingual platform facilitate & Cultural competence	RESEARCH INVENTY: International Journal of Engineering and Science (IJES)	ISSN: 2278-4721	PP.55 – 59 IMPACT FACTOR: 1.89	2012
13	Design and Implementation of Adder and Subtractor Experiments using Virtual Intelligent SoftLab	International Journal of Computer Science and Telecommunications (IJCST) Sysbase Solution, Ltd Publishing Manager	ISSN 2047-3338 A	PP.66 – 69 , Issue-1, peer reviewed	2012
14	Development of virtual Experiment on 7-Segment Display Decoder using Virtual Intelligent SoftLab	International Journal of Computer Technology and Application (IJCTA)	ISSN 2229 6093	PP.325 – 328 -1, IF 2.804 IC Value5.17	2012
15	Design and Implementation of Clamper Experiments using Virtual Intelligent Soft Lab	International Journal of Research in Engineering and Applied Sciences (IJREAS) Euro Asia Research and Development Association	ISSN: 2249-3905	P.1846-1854 IF 3.2	2012
16	Development of virtual Experiment on Flip Flops using Virtual Intelligent SoftLab	International Journal of Management IT and Engineering (IJMIE) International Journal of	ISSN : 2249 0558	PP.347 – 357 IF <a href="#">4.297</a>	2012



		Multidisciplinary Research Academy (IJMRA)			
17	Virtual Intelligent SoftLab for Combinational Circuits	Bionano Frontier Indian Society of Science and Technology E-International Scientific Research Journal Consortium (EISRJC)	ISSN 0974-0678	PP. 444 – 447	2012
18	Development of virtual Experiment on Modulation	International Journal of Computational Engineering Research (IJCER)	ISSN : 2250-3005	PP.223 –227 I F 1.145	2012
19	Development of virtual Experiment on Rectifier Circuits	International Journal of Advanced Research in Computer Science (IJARCS)	ISSN : 0976-5697	PP.223 –227 IF 4.862 ICV 5.62	2012
20	Development of virtual Experiment on Clipping Circuits	International Journal of Computer Science and Network (IJCSN)	ISSN : 2277-5420	Vol-1, Issue-3 IF 0.274	2012
21	Development of virtual Experiment on Operational Amplifier	International Journal of Computer Application (IJCA)	ISSN:0123-4560 Digital Library ISSN : 0975-8887	Vol-62, No-15 ISBN: 973-93-80872-43-2	2013
22	Upcoming Trends of Virtual Experiments for Laboratories	International Journal of Computer Science and Business Informatics (IJCSBI)	ISSN: 1694-2108	1. JUNE 2013 Vol. 2, No.	2013
23	“Application of Microcontroller in Technical communication	International Journal of ETA and ETS	IACSIT ISSN No 0974-3588	Vol.5(2012) Issue 1	2012
24	“Application of Microcontroller in Receiving Unit of the Technical Communication”	International Journal of ETA and ETS	IACSIT ISSN No 0974-3588	Vol.5(2012) Issue 2	2012
25	A Perspective Study on Patient Monitoring Systems based on Wireless Sensor Network, its Development and Future Challenges,	International Journal of Computer Applications	(0975–8887)	volume 65– No.7, March 2013 (IF – 0.835)	2013
26	Design of an embedded platform for digital weighing system to enhance measuring capabilities,	International Journal of Innovative Research in Computer and Communication Engineering ISO 3297: 2007 Certified Organization) Vol. 1, Issue 8, October 2013	. 08 March 2013 Vol 2, Issue 6, June 2014 ISSN (Online): 2320 9801 ISSN (Print): 2320-9798	Impact Factor 5. 618	2014
27	An Alternative Technique to Perform Surgeries in Hospital by	International Journal of Innovative Research in Computer and	(An ISO 3297: 2007 Certified	Impact Factor 5. 618	2014



	Surgical Diathermy	Communication Engineering ISSN (Online): 2320 9801ISSN (Print): 2320-9798	Organization) Vol. 2, Issue 1, January 2014		
28	A Perspective Study on Patient Monitoring Systems based on Wireless Sensor Network, its Development and Future Challenges,	International Journal of Computer Applications	(IJCA)2014	IF3.12	
29	A Comprehensive Study on the significance of Soft Computing in Health Care systems, its Applications and Future Challenges,	IJERT2014	ISSN: 2278-0181 ISO 3297:2007	IF 1.76	2014
30	Blood Glucose Monitoring Using Non Invasive Optical Methods	International Journal of Innovative Research in Computer and Communication Engineering	(An ISO 3297: 2007 Certified Organization)Vol. 1, Issue 10, December 2013	Impact factor 5.618	2013
31	RF Aarogyadham :Healthcare Knowledge Framework.	International Journal of Innovative Research in Computer and Communication Engineering	(An ISO 3297: 2007 Certified Organization)Vol. 1, Issue 10, December 2013	Impact factor 5.618	2013
32	Remote Control of Power Line Devices Using Embedded System	International Journal of Engineering Science and Innovative Technology (IJESIT)	Volume 2, Issue 3, May 2013 238	Impact factor 1.913	2013
33	A Review of Wireless Technology	International Research Journal of Management Science & Technology IRJMST	Vol 5 Issue 6 [Year 2014] ISSN 2250 – 1959 (Online) 2348 – 9367 (Print)	Impact factor 0.83	2014
34	“Embedded Design of Temperature Controller Using PIC 16F876A for Industries and Laboratories”,	International Journal of Innovative Research in Computer and Computer Engineering	(An ISO 3297:2007 Certified Organization), Vol.1, issue10, pp 2414 - 2422 December 2013	Impact factor 5.618	2013
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	Biomedical Applications	Computer and Communication Engineering-IJRCCE”,	2320-9801/2320-9798 on Vol.2, Issue 9, September 2014.	5.618	
36	“An Embedded System for Device Control System with Telephone Answering Machine”	“International Journal of Researches in Social Science and Information Studies - IJRSSIS”,	ISSN number is 2347-8268 on Vol.2, Issue .3, September 2014.	index	2014
37	“Study of Nano Composite Polymer material Spectroscopic Technique”	“International Journal of Researches in Biosciences, Agriculture & Technology – IJBAT”,	ISSN number is 2347-517X on Vol.2, Issue .2, Feb 2015.	Peer reviewed	2015
38	Development of Digital Weighing Scale for Finding Adulteration & Cost Standardization	International Journal of Scientific & Engineering Research,	Volume 5, Issue 10, October-2014 22 ISSN 2229-5518	Impact Factor 3.2	2014
39	A Review of Wireless Technology	International Research Journal of Management Science & Technology <a href="http://www.irjmst.com">http://www.irjmst.com</a>	IRJMST Vol 5 Issue 6 [Year 2014] ISSN 2250 – 1959 (Online) 2348 – 9367 (Print)	Impact Factor : 0.83 Page 53	2014
40	Efficacy Of The CAMH Solution For The Rural India: An Approach Towards Evidence Based Medicine	Global Journal of Advanced Research	Vol-1, Issue-2 PP. 123-127 ISSN: 2394-5788 123   Page 30 December 2014 <a href="http://www.gjar.org">www.gjar.org</a>	Peer reviewed	2014
41	A Comprehensive Study on the Significance of Soft Computing in Healthcare Systems	International Journal of Engineering Research & Technology (IJERT) (This work is licensed under a Creative Commons Attribution 4.0 International License.)	ISSN: 2278-0181 IJERTV4IS020070 <a href="http://www.ijert.org">www.ijert.org</a> Vol. 4 Issue 02, February-2015	Impact Factor 1.76	2015
42	Precise and Low cost Thermoluminescence of Instrumentation Using Embedded	International journal of Engineering Research and general Science IJERGS	ISSN2091-2730 Vol 3 issue 3 May- June	Impact factor 3.843	2015



	Techniques		2015		
43	Smart Wireless Data Logger	International journal of Engineering Research and general Science IJERGS	ISSN2091-2730 Vol 3 issue 3 May- June 2015	Impact factor 3.843	2015
44	An Embedded System For Measurement of Ultrasonic Distance Meter for Biomedical Application	International Journal of of Science and Research IJSR	ISSN 2319-7064	Impact Factor 4.438	2015
45	Healthcare system with Interactive Biosensors	International journal of Electronics, Communication and soft computing Science and engineering.	IJECSCSE ISSN 2277-9477	Impact Factor 4.526	2015
46	Study of Biosensors Using Nanotechnology.	International journal of Advances in Science, engineering. and Technology	IJASEAT 2321 –9009 Special Issue-1	Impact Factor 2.05	2015
47	RS485 Data Transmitter through GSM Service to Server Database Logger PP 22-27	IOSR Journal of Computer Engineering (IOSR-JCE) www.iosrjournals.org	e-ISSN: 2278-0661,p- ISSN: 2278-8727	peer reviewed	2015
48	Iterative Least Square Polynomial Approximation Method for filtering ECG Signals	European Journal of Advances in Engineering and Technology, 2016, 3(7): Research Article	ISSN: 2394 - 658X 65	p p 65-70	2016
49	A Review of Security Aspects of Online and ATM Transactions in Banking Domain	International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 4, Issue 12,	ISSN: 2278 – 909X December 2015 2836	peer reviewed pp 2836-2840	2015
50	A Comprehensive Study on the Significance of Soft Computing in Healthcare Systems	International Journal of Engineering Research & Technology (IJERT) www.ijert.org Vol. 4 Issue 02, February-2015	ISSN: 2278-0181 IJERTV4IS020070	peer reviewed Pp 278-281	2015
51	Security Performance and Analysis of Rivest-Shamir-Adleman (RSA) Algorithm for ATM Transactions	International Journal of Innovative Research in Computer and Communication Engineering (An ISO 3297: 2007 Certified Organization) Vol. 4, Issue 7, July 2016	ISSN(Online): 2320-9801 ISSN (Print) : 2320-9798	Peer Reviewed Pp13712-13721	2016
52	A Comparative Study of the Soft Computing Models used for Patient Monitoring Systems	International Journal of Engineering Trends and Technology (IJETT) – Volume 37 Number 5 - July 2016	ISSN: 2231-5381 http://www.ijettjournal.org	Peer Reviewed Page 265	2016
53	Survey On Wireless Body Area Network For Healthcare Applications	International Journal Of Researches In Biosciences, Agriculture And Technology © Vishwashanti	I J R B A T, Vol. Iv, Issue (3), Sept - 2016	Peer Reviewed Pp 14-	2016



		Multipurpose Society (Global Peace Multipurpose Society) R. No.Mh-659/13(N) Www.Vmsindia.Org	Issn 2347 – 517x 14	17	
54	An experiment with Intelligent Scissors interactive segmentation technique on specific images	International Journal of Scientific and Research Publications, Volume 6, Issue 7, July 2016	ISSN 2250-3153 www.ijserp.org	Peer Reviewed pp60	2016
55	An Experiment with GrabCut Interactive Segmentation Technique on Specific Images	International Journal of Scientific & Engineering Research, Volume 8, Issue 1, January-2017	ISSN 2229-5518 IJSER © 2017 http://www.ijser.org	Peer Reviewed pp 345	2017
56	Survey On Wireless Body Area Network For Healthcare Applications	International Journal Of Researches In Biosciences, Agriculture And Technology © Vishwashanti Multipurpose Society (Global Peace Multipurpose Society) R. No.Mh-659/13(N) Www.Vmsindia.Org	I J R B A T, Vol. IV, Issue (3), Sept - 2016 ISSN 2347 – 517X	Peer Reviewed Pp14	2016
57	Development of Virtual Experiment on Sequential Logic Circuits	Kamla Nehru Journal of Science and Technology volume-1	KNJST-2015 Vol-1 ISBN: 978-93-81432-97-6	Peer Reviewed PP39-45	2015
58	Wireless Heartbeat Patient Monitoring on General Intensive Care Unit (ICU)	Kamla Nehru Journal of Science and Technology volume-1	KNJST-2015 Vol-1 ISBN: 978-93-81432-97-6	Peer Reviewed PP46-54	2015
59	Digital Weighing Scale Using Wireless Technology for Cost Standardization PP55-61	Kamla Nehru Journal of Science and Technology volume-1	KNJST-2015 Vol-1 ISBN: 978-93-81432-97-6	Peer Reviewed	2015
60	ZIGBEE: A Wireless Communication Network	Kamla Nehru Journal of Science and Technology volume-1	KNJST-2015 Vol-1 ISBN: 978-93-81432-97-6	Peer Reviewed PP62-66	2015
61	Application of Microcontroller in Information system.	The First International conference in Emerging Trends in science , Technology and Management 2013, Singapore organized by society of Mathematical Development, Indore 21,22 April 2013	ISSN No 2250-0593		2012
62	The web structure for healthcare knowledge Framework :The semantic artifacts for healthcare	.National conference on Recent Initiatives towards Green Electronics Organised by Brijlal Biyani College, Amravation Feb 8-9, 2013	ISBN No 978-81-922256-9-2	Page no. 15	2013
63	Development of virtual	National conference on	ISBN No	Page	2013



	experiment on voltage current and resistance	Recent Initiatives towards Green Electronics Organised by Brijlal Biyani College, Amravation Feb 8-9, 2013	978-81-922256-9-2	no. 141-143	
64	MMC as a instant and versatile any time memory card(ATMC)for e-health data storage	National conference on Recent Initiatives towards Green Electronics Organised by Brijlal Biyani College, Amravation Feb 8-9, 2013	ISBN No 978-81-922256-9-2	Page no.253-255	2013
65.	Design of an Embedded system for monitoring And controlling Temp and light	3 <sup>rd</sup> National Conference on Developed and Developing Nations Opportunities and Challenges, ASPIRE 2012 organized by G H Raisoni College of Commerce , Science and Technology, Nagpur, 10 March 2012	ISBN No 978-81-922256-9-2		2012
66	Development of Luminescence instrumentation using Embedded Technique	3 <sup>rd</sup> National Conference on Developed and Developing Nations Opportunities and Challenges, ASPIRE 2012 organized by G H Raisoni College of Commerce , Science and Technology, Nagpur, 10 March 2012	ISBN No 978-81-922256-9-2		2012
67	Design and Development of Three phase inverter	UGC sponsored National conference in Technologies in engineering and sciences for energy application	ISSN No 0974-0678		2012
68	Virtual Instrumentation Soft lab for combinational Circuit	UGC sponsored National conference in Technologies in engineering and sciences for energy application	ISSN No 0974-0678		2012
69	Opportunities of Activable nano material in Biomedical sciences	CSIR sponsored National Conference on Current Developments in Nanoscience: challenges and opportunities organized by Kamla Nehru Mahavidyalaya, Nagpur. 14 <sup>th</sup> Sept 2013	ISBN No.9789381432563	Page no.151-155	2013
70	Aarogyadham: Helthcare Knoledge framework	International conference on Electrical, Electronics and Computer science organized by IIST, Hyderabad Tirupati09 Feb 2014	ISBN No.347938141163		2014
71	clotting time dependence of Blood Sugar	National conference on Recent Trends in Photonics NCRTP-2014 organized by school of studies in Electronics and photonics Pt Ravishankar Shukla University Raipur(CG) 12-14 march 2014	ISBN No.12938452563		2014
72	A non invasive method of Sugar Measurement using Bluetooth.	UGC sponsored National conference on Advance Materials (NCAM-2014) 1 <sup>st</sup> march 2014.	ISBN No.9789381432563		2014
73	“Decision making and	NCRAECS-2014 National	ISBN	Page	2014



	other controlling applications of Fuzzy Logic Technique”	Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	number is 978-81-90645751	No. 29	
74	“Microcontroller based Home Automation System”	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	ISBN number is 978-81-9064575	Page No.30	2014
75	“Electrosurgeon be cautious against surgical smoke”	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	ISBN number is 978-81-90645751.	Page No.34	2014
76	Selection of temperature sensor for an embedded system design of temperature controller for industries and laboratories	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	ISBN number is 978-81-90645751.	Page No.33	2014
77	Use of radio waves remote control OF power line device using Embedded system	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	ISBN number is 978-81-90645751.	Page No.35	2014
78	Application of electronics survey system in marketing research	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	ISBN number is 978-81-90645751.	Page No.35	2014
79	virtual intelligent soft lab for electronics laboratory.	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji	ISBN number is 978-81-90645751.	Page No.41	2014





		Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with			
80	Healthcare knowledge Framework: An Innovative framework for interpolation of healthcare application	NCRAECS-2014 National Conference on “Recent Advances in Electronics & Computer Science” Department of Electronics & computer science, Shivaji Science College, Nagpur on 23 rd & 24 <sup>th</sup> Jan 2014 with full paper with	ISBN number is 978-81-90645751.		2014
81	“An Embedded System for measurement of Ultrasonic distance meter with Biomedical Applications”	ISU-2015 International Conference on “International Symposium on Ultrasonics:Ultrasound in Biomedical and Industrial Applications” Department of Physics and Electronic Science, RTMNU Nagpur	22 <sup>nd</sup> , 23 <sup>rd</sup> and 24 <sup>th</sup> Jan 2015 with full paper with ISBN number is 978-81-925424-3-0.	peer reviewed	2015
82	“An Embedded System for Device Control System with Telephone Answering Machine”	NCRAECS-2014 UGC Sponsored National Conference on “Trends and Challenges in Management of academic Libraries in New Information Environment” Shivaji Science College, Nagpur.	on 29 sep. 2014 with full paper with ISSN number is 2347-8268	peer reviewed	2014
83	“An Embedded System for Bluetooth controlled vehicle using Wireless Technology”	UGC Sponsored National Conference on “Use of Technological Resources in language Teaching and Learning” Arts, Commerce & Science College, Koradi	on 8 <sup>th</sup> Oct. 2014 with full paper with ISBN number is 978-93-83132-16-4.	peer reviewed	2014
84	“Optical Properties of Nano materials for Power using Spectroscopic Technique”	RDMST-2014 UGC Sponsored National Conference on “Recent Development in Material Science and Technology” Arts, Commerce & Science College, Koradi	on 11 <sup>th</sup> Oct. 2014 with full paper with ISBN number is 978-81-926487-3-6.	peer reviewed	2014
85	“A Review of Nanotechnology in Biomedical Applications”	NSAM-2014 UGC Sponsored National Conference on “Novel Synthesis of Advanced Materials” D.B. Science College, Gondia	on 20 <sup>th</sup> Dec. 2014 with full paper with ISBN number is 978-93-82962-51-9.	peer reviewer PageNo. 66	Supervisor
86	“Near infrared spectroscopy used for detecting blood glucose depending on clot time	NSAM-2014 UGC Sponsored National Conference on “Novel Synthesis of Advanced Materials” D.B. Science College, Gondia	on 20 <sup>th</sup> Dec. 2014 with full paper with ISBN number is 978-93-82962-51-9.	peer reviewer PageNo. 177-180	2015
87	Study of various instruments for the measurement of	NSAM-2014 UGC Sponsored National Conference on “Novel Synthesis of Advanced	on 20 <sup>th</sup> Dec. 2014 with full paper	peer reviewer	2014



	bioelectric signal	Materials” D.B. Science College, Gondia	with ISBN number is 978-93-82962-51-9.	PageNo. 226-230	
88	“An optical properties of Nanomaterials for Power Electronic Devices using Spectroscopic Technique”	NSAM-2014 UGC Sponsored National Conference on “Novel Synthesis of Advanced Materials” D.B. Science College, Gondia	on 20 <sup>th</sup> Dec. 2014 with full paper with ISBN number is 978-93-82962-51-9.	peer reviewe r PageNo. 259-265	2014
89	“An Embedded System for Motor Movement Controller using Wireless Technique”	ETECS-2015 UGC sponsored National Conference on “Emerging Trends in Electronics and Computer Science” Deptt. of Electronics and Computer Science, Shivaji University, Kolhapur	on 13 and 14 <sup>th</sup> Feb 2015 with full paper.	peer reviewe d	2015
90	“Use of GSM Module in Semi-invasive Blood Glucose Measurement”	ETECS-2015 UGC sponsored National Conference on “Emerging Trends in Electronics and Computer Science” Deptt. of Electronics and Computer Science, Shivaji University, Kolhapur	on 13 and 14 <sup>th</sup> Feb 2015 with full paper.	peer reviewe d	2015
91	“Study of Nano Composite Polymer material Spectroscopic Technique”	NCNSD-2015 UGC sponsored National Conference on “Nanoscience for Sustainable Development” Deptt. of Nanoscience and Nanotechnology, Ambedkar College, nagpur	on 23 rd Feb 2015 with full paper with ISSN number is 2347-517X.	peer reviewe d	2015
92	Use of High Frequency Radio Waves Remote Control of Power Line Devices using Embedded system,	UGC Sponsored National conference on Novel Synthesis of Advanced Materials organised by Dhote Bandhu Science College Gondia	on 20 <sup>th</sup> Dec. 2014 with full paper with ISBN number is 978-93-82962-51-9.	Page no. 273-277	2014
93	Present a paper topic Development of Virtual Experiment on Transistor characteristics using Virtual Intelligent Softlab	UGC Sponsored National conference on Novel Synthesis of Advanced Materials organised by Dhote Bandhu Science College Gondia	on 20 <sup>th</sup> Dec. 2014 with full paper with ISBN number is 978-93-82962-51-9.	Page no. 298-304	2014
94	Resent trends in nanoscience and its application	NCLA-2016 Proceiding of the national conference on “Luminesence and its application” organized by R.T.M,and Taywade Colege, Koradi NAGPUR on date 18-20FEB ,2016	ISBN 978-93-82570-72-1	Page no. 334	2016
95	Role of Quality Management strategies in Academic and Adminstrative Aspects	NAAC Sponsored National seminar on NAAC Re Assessment: A Time for Institutional Introspection Date 5 <sup>th</sup> MARCH 2016	ISBN : 9788192681382	Page no. 09	2016



96	A Novel Role of IQAC as Catalytic Agent in Quality Improvement of Higher Education.	NAAC Sponsored National seminar on NAAC Re Assessment: A Time for Institutional Introspection Date 5 <sup>th</sup> MARCH 2016	ISBN : 9788192681382	peer reviewed	2016
97	A Comprehensive Method for the Feature Extraction of ECG Signals	CSIR Sponsored National conference “Biomedical Instrumentation related Hardware and Software” 3 <sup>rd</sup> Feb 2017	ISBN: 978-93-81432-56-3	Page no 40 to 44	2017
98	Wireless Implantable Medical Devices	CSIR Sponsored National conference “Biomedical Instrumentation related Hardware and Software 3 <sup>rd</sup> Feb 2017	ISBN: 978-93-81432-56-3	Page no 75 to 79	2017
99	Wireless Pulse Oximeter Realization Using Mesh Zig Bee Sensor Network	CSIR Sponsored National conference “Biomedical Instrumentation related Hardware and Software 3 <sup>rd</sup> Feb 2017	ISBN: 978-93-81432-56-3		2017ES

**Mr. P. M. Sontakke (Department of Electronics)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
	A PBL based approach for study of Electronics Instrumentation	International Conference on Teacher Education, Babasaheb Ambedkar Marathwada University, Aurangabad, 10,11 May 2015.	978-93-80039-09-01	341-343	2015

**Dr. Ashish Rewatkar (Department of Electronics)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
	RS485 Data Transmitter through GSM Service to Server Database Logger	IOSR Journal of Computer Engineering (IOSR-JCE)	e-ISSN: 2278-0661, p-ISSN: 2278-8727	22 -27	3.05
	Precise and Low Cost Thermoluminescence Instrumentation Using Embedded Techniques	IJERGS Journal, Vol3, 2015 Edition	ISSN 2091-2730		Impact Factor 3.843
	Smart Wireless Datalogger	IJERGS Journal, Vol3, and 2015 Edition	ISSN 2091-2730		Impact Factor 3.843
	Automatic Temperature Controlling and Monitoring System	National Symposium on Instrumentation (NSI-30) at Cochin	-	139	2015
	RS485 Data Transmitter through GSM Service to Server Database Logger	National Conference on Recent Trends in Computer Science Information Technology (NCRTCSIT 2016)	-		2016
	Wireless GPRS Based	National Conference	978-93-81432-	46-52	2017



	Patient monitoring System with logging on database server	on Biomedical Instrumentation	3		
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**Dr. Manjusha Borkar (Department of Mathematics)**

Sr. No.	Title	Name of Journal	ISSN/ ISBN	Page No.	Year.
1.	On Conformally Flat Non-Static Spherically Symmetric Perfect Fluid Distributions in General Relativity	IJCMS	ISSN 2347 – 8527	April 2016.	April 2016
2.	The Spherically Symmetric Charged Perfect Fluid Distribution	(ICITESM-16)	ISSN 2349-4476	146-149	19 <sup>TH</sup> Nov.2016
3.	The Conformally Flat Non-Static Spherically Symmetric Perfect Fluid Distributions in General Relativity	(ICITESM-16)	ISSN 2349-4476	111-115	19 <sup>TH</sup> Nov. 2016

**Dr. Rupali Wanjari (Department of Mathematics)**

Sr. No.	Title	Name of Journal	ISSN/ ISBN	Page No.	Year.
1.	Higher Dimensional Varying $c$ Cosmological Model with $\Omega_M$ -Dependent Cosmological Constant	The African Review Of Physics		299-304	2014
2.	Kaluza-Klein Type Cosmological Model with $\Omega$ -Dependent Cosmological Constant and Big Rip Singularity	Journal of Dynamical Systems & Geometric Theories	1726-037X (Print) 2169-0057(Online)	43-50	2015

**Dr. S. R. Moghe (Department of Biotechnology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Liquid Bioinoculants an approach towards sustainable agriculture development. Multifunctional advance materials.	Bio Nano Frontier (in press)		Under printing	2017
2	Effect of growth regulator combination on invitro regeneration of <i>Catharanthus roseus</i>	International Journal of Life Science	2320-7817	1-4	2016
3	Invitro regeneration of <i>Auroxylem Indicum</i> (L) via callus based somatic embryogenesis and multiple shoot induction.	Sansodhan	2249-8567	11-15	2016
4	Micropropagation of <i>Lepidium sativum</i> .	International Journal of Life Science	2320-7817	141-144	2016
5	In-vitro Micropropagation in <i>Sesamum Nigrum</i>	Kamla Nehru Journal of Science and technology(KNJST)		72-76,	2015



6	In-vitro Regeneration of Psoralea corylifolia	International Journal of researches in biosciences Agriculture and technology	2347-517X	134-138	2015
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**Dr. Sarita Tiwari(Department of Biotechnology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Comparative analysis of antioxidant response by Pteris vittata and Vetiveria zizanioides towards arsenic stress.	Ecological Engineering	0925-8574	211-218	2016
2	Identification of arsenic resistant endophytic bacteria from Pteris vittata roots and characterization for arsenic remediation application.	Journal of Environment Management	0301-4797	59-365	2016
3	Determination of arsenic extraction by Vetiveria zizanioides plant for phytoremediation application.	Chemistry and Ecology.	0275-7540		2015
4	In silico arsenate reductase gene evolution.	Online Journal of Bioinformatics	1443-2250	303-317.	2015
5	Efficacy of three different plant species for arsenic phytoextraction from hydroponic system.	Environmental Engineering Research	1226-1025	1-5	2014

**Mrs. Gauri Ade(Department of Biotechnology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Effect of growth regulator combination on invitro regeneration of Catharanthus roseus	International Journal of Life Science	2320-7817	1-4	2016
2	Invitro regeneration of Auroxylem Indicum (L) via callus based somatic embryogenesis and multiple shoot induction.	Sansodhan	2249-8567	11-15	2016
3	Micropropagation of Lepidium sativum.	International Journal of Life Science	2320-7817	141-144	2016
4	In-vitro Micropropagation in Sesamum Nigrum	Kamla Nehru Journal of Science and technology(KNJST)		72-76,	2015
5	In-vitro Regeneration of Psoralea corylifolia	International Journal of researches in biosciences Agriculture and technology	2347-517X	134-138	2015



**Mrs Meenakshi Mohadikar (Department of Biotechnology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	InVitro culture and PCR study of stress related genes in Trigonella foenum graecum linn..	Asiatic Journal of Biotechnology Resources			2013

**Mrs Deepti Laud (Department of Biotechnology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Effect of growth regulator combination on invitro regeneration of Catharanthus roseus	International Journal of Life Science	2320-7817	1-4	2016
2	Invitro regeneration of Auroxylem Indicum (L) via callus based somatic embryogenesis and multiple shoot induction.	Sansodhan	2249-8567	11-15	2016
3	Micropropagation of Lepidium sativum.	International Journal of Life Science	2320-7817	141-144	2016
4	In-vitro Micropropagation in Sesamum Nigrum	Kamla Nehru Journal of Science and technology(KNJST)		72-76,	2015
5	In-vitro Regeneration of Psoralea corylifolia	International Journal of researches in biosciences Agriculture and technology	2347-517X	134-138	2015

**Ms. Ashwini S. Darokar (Department of Biotechnology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Liquid Bioinoculants an approach towards sustainable agriculture development. Multifunctional advance materials.	Bio Nano Frontier (in press)			2017
2	Characterization of Fluorescent Pseudomonas: Potential Candidates for Liquid Bioinoculant	International Journal of Agriculture Innovations and Research	2319-1473.	1168-1173	2014
3	Exploring competence of fluorescent pseudomonas spp. for heavy metal tolerance	World Journal of Pharmaceutical Research	2277-7105	2241-2252.	2015
4	Exploring heavy metal tolerance of fluorescent Pseudomonas isolate	International Journal of Current Research	0975-833X	10452-10454	2014



**Dr. Mrs. Anita M. Chandak (Department of Microbiology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Production of single cell protein from fruit waste by using <i>Saccharomyces cerevisiae</i>	International journal of advance Biotechnology and Research	ISSN 2278-599X	770-776	2014
2.	Microbial activity of Lycopene against oral pathogen	World Journal of Pharmaceutical Research	ISSN 2277-7105	1965-1969	2015
3.	Survey on Plastic Waste Disposal Methods	Kamla Nehru Journal of Science and Technology		101-107	2015
4.	Study of Clove oil as Antimicrobial agent against cosmetically important micro organisms	Kamla Nehru Journal of Science and Technology		96-100	2015
5.	Study of Cinnamon oil as natural antimicrobial agent	International Journal of Researches in Biosciences Agriculture and Technology	ISSN 2347-517X	415-417	2015
6.	Production of Liquid Bio-Fertilizer and to study its effectively on plant growth	International Journal of Agricultural Science and Research (IJASR)	ISSN 2250-0057	211-220	2016
7.	Lycophene is wonder drug	World Journal Of Pharmaceutical Research (WJPR)	ISSN 2277-7105	986-990	2016
8.	Optimization of condition for production of prodigiosin by <i>Serratia marcescens</i>	World Journal Of Pharmaceutical Research (WJPR)	ISSN 2277-7105	976-981	2016
9.	Decolourization of synthetic dyes using spent mushroom substrate	International Journal of Research in Bioscience, Agriculture and Technology.	ISSN 2347-517X	38-41	2016
10.	Biodegradation of Textile dyes, malachite green and congo red by fungi and bacteria”,	International Journal of Researchers in Bio Sciences, Agriculture and Technologies Special issues	ISSN 2347-517X	63-65	2016
11.	Microbial contamination and preservative capacity of some brands of cosmetic creams”	International Journal of Research in Cosmetic Science	ISSN 2277-7172	17-20	2016

**Prof. Rohinee Patle (Department of Microbiology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Decolourization of synthetic dyes using spent mushroom substrate	International Journal of Research in Bioscience, Agriculture and Technology.	ISSN 2347-517X	38-41	2016
2.	Microbial activity of Lycopene against oral pathogen	World Journal of Pharmaceutical Research	ISSN 2277-7105	1965-1969	2015



**Neha A.M. Sheikh (Department of Microbiology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Production of Bioactive compound by Bacillus subtilis and its antagonistic activity against Sclerotium rolfsii	International journal of life sciences	2320-964X	127-133	2014

**Prof. Ashwini V. Kasulkar (Department of Microbiology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Investigation of Biofilm Inhibition Activity and Antibacterial Activity of Psidium guajava plant extract against Streptococcus mutans causing Dental Plaque	International Journal of current Microbiology and Applied Sciences	ISSN 2319-7706	335-351	2014

**Mrs. Ketki Misar (Department of Cosmetic Technology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Study of Night Jasmine as Antibacterial Agent	Research Journal- L. A. D. College Nagpur, Half Yearly journal of Science, Arts, Social Science, Commerce, Home Science & Home Science Technology	ISSN: 0974-0317 Research journal Vol. 8 , No. (2), 2012	16-21	2012
2	.Study of Clove oil As Antibacterial Agent Against Cosmetically Important Microorganisms	Kamla Nehru journal of Science and Technology	KNJST-2015 Vol. -I/ ISBN: 978-93-81432-97-6	96-100	2015
3	Study of Cinnamon Oil As Natural Antimicrobial Agent	International Journal of Researches in Biosciences, Agriculture & Technology(IJBAT)	ISSN :2347-517X (Online) Special Issue-(6)	415-417	October -2015
4	Formulation, Development And Evaluation of foot Cream With Ficus Religiosa	International Journal of Researches in Biosciences, Agriculture & Technology(IJBAT)	ISSN :2347-517X (Online) Special Issue-(6)	478-480	October -2015

**Mrs. Suchita Bhise (Department of Cosmetic Technology)**

Sr. No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Sodium Pyrrolidone Carboxylic Acid As Moisturizing Agent	International Journal of Chem Tech. Research	CODEN (USA) IJCRGG / ISSN : 0974- 4290 vol. 5 ,No. 4 ,	PP 1448-1451	April-June 2013





2	Determination of Antioxidant Activity And Phytochemical Screening of Momordicadioica Linn. Fruit Extracts in Non-Polar to Polar Solvents	International Journal of Current Pharmaceutical And Clinical Research (IJPCPCR)	ISSN : 2248-9134/ Vol. 5/ Issue -3 /	189-192	2015
3	Phytochemical Screening And Free Radical Scavenging Activity of Luffa cylindrical (Linn.) Fruit Extracts in Non –Polar To Polar Solvents	International Journal Of Pharmaceutical ,Chemical and Biological Sciences (IJPCBS)	ISSN : 2249-9504 / Vol. 5(3), 617-621	617-621	2015
4	Determination of Antioxidant Activity And Phytochemical Screening of Cucurbita maxima Duch.. Fruit Extracts in Non-Polar to Polar Solvents	International Journal of Pharm Tech. Research	CODEN (USA) IJPRIF / ISSN : 0974- 4304 vol. 8,No. 4 ,	PP 771- 775	2015
5	Determination of Antioxidant Activity And Phytochemical Screening of Cucumissativus Linn. Fruit Extracts in Non-Polar to Polar Solvents	International Journal of Researches in Biosciences, Agriculture & Technology(IJBAT)	ISSN :2347-517X (Online) Special Issue-(6)	(Online)	October - 2015

#### Ms. Smita Parate (Department of Cosmetic Technology)

Sr. No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Formulation, Development And Evaluation of foot Cream With FicusReligiosa	International Journal of Researches in Biosciences, Agriculture & Technology(IJBAT)	ISSN :2347-517X (Online) Special Issue-(6)		October - 2015

#### Dr. D. R. Saxena (Department of Zoology)

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Screening of Vavding for antibacterial activity,	Indian Streams Research Journal	2230-7850 2013 IF – 0.2105	14-19	2013

#### Dr P. K. Butey(Department of Computer Science)

Sr.No	Title of Research Paper	Name of the Journal	ISSN/IS BN No	Page No	Year
1	Query Optimization by Genetic Algorithm	Journal of Information Technology and Engineering Vol.3 No.	ISSN:22 29-7421	44-51	1 Jan-June 2012
2	Analytical and Comparative Study on effect of Indian Classical Music on human	International Journal of Modern Engineering Research (IJMER)	ISSN: 2249- 6645	3289-3291	Sep-Oct 2012



	body using EEG based signals	Vol. 2, issue. 5,			
3	A Review on SQL Injection Vulnerability and Comparative Analysis of their Detection and Prevention Techniques	International Journal of Advanced Research in Computer Science and Software and Software Engineering Volume 6, Issue 12,	ISSN: 2277 128x	253-260	December 2016
4	A survey on Web Content Mining	International Journal of Pure and Applied Research in Engineering and Technology DevenKene, IJPRET, 2015; Volume 3 (9)	ISSN:23 19-507x Impact Factor:4. 226	292-298	2015
5	Web Content Mining Tools for Information Extraction in Wen Environment	National Conference on “Advanced Technologies in Computing and Networking” –ATCON	ISSN: 2277- 9477	141-143	2015
6	Extraction Informative Web Content using Web Page Segmentation Approaches	2 <sup>nd</sup> International Conference on Emerging Trends in Computer Science, Communication and Information Technology	9781- 923487- 1-1	156-129	2015
7	A Review on Nature Inspired Algorithms for clustering	International Journal of Emerging Trends & Technology in Computer Science (IJETTCs) Volume 4, Issue 1	2278- 6856	58-62	January- Feb 2015
8	Benchmark Function Analysis by Using Nature Inspired Algorithms	National Conference on Advanced Technology NCOAT-NIRMITI	2455- 7935	online	2016
9	Handwritten Character Recognition Using Feed-Forward Neural Network Models	International Journal of Computer Engineering & Technology (IJCET) Volume 6, Issue 2,	0976- 6367	54-74	2015
10	Performance Analysis of Data Mining Algorithms with Neural Network	International Journal of Computer Engineering & Technology (IJCET) Volume 6, Issue 1	0976- 6367	01-11	2015
11	A Comprehensive Study of Data Mining Methods with Implementation of Neural Network Techniques	International Journal of Computer Engineering & Technology (IJCET) Volume 5, Issue 12	0976- 6367	264-274	2014
12	Importance of Data Mining with Different types of data Applications and Challenging Areas	Int. Journal of Engineering Research and Applications Vol. 4 Issue 5 (Version 3)	ISSN: 2248- 9622	38-41	2014
13	Comparison on Different Data Mining Algorithms	JCSE International Journals of Computer Sciences and Engineering Open Access Vol-2, Issue-10 E-	ISSN:23 47-2693	54-58	2014
14	Data mining Classification Methods and Different Techniques	International Journal of Computer Application Issue 4, Volume 4	ISSN: 2250- 1797	170-177	2014
15	Summary: Smart Decision Making Fuzzy Logic for Knowledge Management	International Journal of Computer Engineering & Technology (IJCET)	0976- 6367	41-50	2014



	System	Volume 5, Issue 10,			
16	An Application of ANT Colony Optimization in A knowledge Mining Environment	International Journal of Computer Engineering & Technology (IJCET) Volume VII, Issue II, Part II	2321-3469	22-232	2014
17	An outline of Knowledge Mining Multi-Tier architecture for decision Making	International Journal of Computer Engineering & Technology (IJCET) Volume 5, Issue 8,	0976-6480	79-85	2014
18	Extracting Melodic pattern of ‘Mohan Veena’ from Polyphonic Audio Signal of North mIndian Classical Music	International Journal of Computer Application (0975-8887)	0975-8887	1-5	2013
19	Stress Monitoring using Music Therapy Techniques for health care and wellness	International Journal of Advanced research in Computer Science Volume 5 No. 4	ISSN No.0976-5697	173-175	2014
20	Study of Comparison of human bio-Signals for emotion detection using HCI	International Journals of Emerging trends and Technology in Computer Sciences (ITETTCS) Volume 2, Issue 2	2278-6856	449-452	2013
21	An Application of Fuzzy Logic for expert Selection	International Journal of Advanced Computer Research	(ISSN(Print): 2249-7277	211-215	2013
22	Database Performance in Knowledge Management System: Challenges and Measures	SPM-JAR Journal of Academic Research	ISSN 2277-3908	149-152	2013
23	Faults Prediction for Component based software using Interrelated Feed forward Neural Networks	International Journal of Advanced Computer Research	(ISSN(Print): 2249-7277 )	179-197	2014
24	Neural Network Techniques for Software Reliability Modelling	International Journal of Computer Science and Information Technology Research Excellence Vol. 3, Issue 4	ISSN No, 2250-2734	29-40	2016

**Dr. A. J. Chamatkar(Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Performance Analysis Of Data Mining Algorithms With Neural Network	International Journal of Computer Engineering and Technology (IJCET) Volume 6	ISSN Print: 0976- 6367 ISSN Online: 0976 -6375,	159-170	2014
2	A Comprehensive Study OfData Mining Methods With Implementation Of Neural Network Techniques	International Journal of Computer Engineering & Technology (IJCET) ) Volume 5	ISSN 0976 – 6367(Print) ISSN 0976 – 6375(Online	264-274	2014
3	Comparison on Different Data Mining Algorithms	International Journal of Computer Sciences and Engineering Open Access Volume, Volume-2, Issue-10	ISSN: 2347-2693	54-58	2014
4		International Journal of	ISSN 0976 –	172-181	2014



	A Study On Association Rule Mining With Neural Based Framework	Computer Engineering & Technology (IJCET)	6367(Print) ISSN 0976 – 6375(Online) Volume 5, Issue 9		
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**Dr. S. P. Yende(Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	“Role of Small and Medium Enterprises(SME)”	International Conference held at CIMBARD college,Nagpur	978-93-81432-50-1	348-354	2014
2	“Imapct of Information Technology on the Development of Stock Market”	International Conference held at CIMBARD college,Nagpur	978-93-81432-50-1	68-74	978-93-81432-50-1
3	“Foreign Direct Investment in Multi Brand Retailing : Challenges & Opportunities”	65 <sup>th</sup> All India Commerce Conference ,K.P.B. Hinduja College of commerce ,Mumbai	Conference Proceeding	204	2013
4	“Role of Human Resource Management in Global Scenario”	67 <sup>th</sup> All India Commerce Conference ,Bhubaneshwar	Conference Proceeding	102-103	2014
5	“E-retailing in India: A New Vision”	68 <sup>th</sup> All India Commerce Conference ,Ranchi,Chhatisgarh	Conference Proceeding	67-68	2015
6	“A New Perspective on Mergers and Acquisitions”	National Seminar held at Deptt. Of Business Management ,RTMNU Nagpur University,Nagpur	Conference Proceeding	124-128	2015
7	“Effect of Social Commerce & Social Shopping on New Brand Product”	National Seminar held at DAIMSR , Nagpur	978-93-5142-573-7	157-162	2014
8	“Impact of Government subsidies on Agriculture Sector in India”	National Seminar held at Dhanwate National College,Nagpur	Conference Proceeding	211-214	2015
9	“Role of Information Technology on the stock Market”	UGC Sponsored National Conference held at DayanandAryaKanyaMahavidyalaya ,Nagpur	978-81-96-773-3-6	147-155	2014
10	“Impact of Social Commerce & Social Shopping 3D carts on New Brand Product”	National conference held at Dr. Ambedkar College , Nagpur	978-93-5142-572-1	177-182	2014

**Prof. S. Y. Zade(Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Data Communication for 3D System from 2D vision	International Journal of Science, Technology amd management (IJSTM)	2250-0596	209-213	2014

**Prof. A S Pimpalkar (Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Data Compression Techniques for Managing Large Data Sets	International Journal of Science, Information Technolgy and Management	2250-0596	184-187	2014



**Prof.R B Surve (Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Association Rules: Spatial Data Mining	International Journal of Science, Information Technology and Management	2250-0596	188-190	2014
2	Disparity of Spatial and non- Spatial data	IJAFRC	2348-4853	50-55	2014

**Prof. B A Jagtap (Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Associaion Rules: Spatial Data Mining	International Journal of Science, Information Technology and Management	2250-0596	188-190	2014

**Prof. S. B. Shirpurkar(Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Person identification based on iris	Advance in computational science and technology	0973-6107	155-163	2012
2	Person identification based on ears	Advance in computational science and technology	0973-6107	81-89	2012

**Prof. K. G. Bakde(Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	A Load balancing based cloud computing techniques and challenges	International Journal Of Scientific Research And Management	2320-3418	815-824	2016
2	Survey of techniques and challenges for load balancing in public cloud	IJTRA	2320-08163	279-290	2016
3	A performance improvement of load balancing and its status evaluation in public cloud	IJSER	2229-5518	1883-1888	2016

**Prof. V. G. Belsare(Department of Computer Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	“Secure Multi-owner data in cloud environment”	IJRISE	2394-8299	207-212	2017

**Dr. Arvind Shende (Principal)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Customer Loyalty Programs: From Single Partner to Multi Partner	IJRSS	2249-2496	49-64	May 2015
2	Leadership Dynamic for Management	Souvenir of R S Mundle, Dharampeth College, Ngp	Conference Proceeding	73-75	Feb 2015



3	Work Life Balance of teachers of Rural Area in Nagpur Region	Souvenir of CIBMRD Sinhadadh, Pune	Conference Proceeding	49-52	Apr - 2014
4	Impact of Recession on Banking Industry in India: Review of Literature	Souvenir of Shri Ramdeobaba College of Engineering and Management, Nagpur	Conference Proceeding	91-93	Mar- 2014
5	Suicides of Vidarbha's Farmers and Statistics.	Souvenir on Farmers' Suicide, Pulgaon	Conference Proceeding	199-	Jan 2014
6	A Study of Investment Strategies Adopted by Investors During Various Stages of human Life Cycle	Souvenir of Jagat Arts & Commerce Collage, Goregaon	Conference Proceeding	55-58	Jan- 2014
7	Financial Study Of Farmers In Vidarbha Region	The Knowledge & Research Review	ISSN 2320-1487	37-41	July 2013
8	The Study Of Relief Packages For Vidarbha Farmers	Sodha Samiksha Aur Mulyamapan	2320-5474	43-45	May-13.
9	Causes Of Suicide Of The Farmers In Vidarbha Region	Research Analysis & Evaluation	2320-5482	40-43	Apr-13.
10	Customer Buying Behaviour & Fashion	Research Analysis & Evaluation	0975-3486	97	2014

**Dr Bharat Meghe (Department of Commerce)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	The role of knowledge management in higher education for business development.	Knowledge Resonance Journal, Vol. 2 Issue 1	ISSN No. 22311629	53-60	2012
2	Role of Information Technology on the stock market IT Revolution and its impact in India,	Perspective Journal	ISBN No. 978-81-926773-3-0].	147-155	2013
3	Trends, issues and implications for management education in India.	The Knowledge and Research Review Journal Vol. 1 Issue 1	[ISSN No. 2320-1487].	9-17	2013
4	Role of corporate social responsibility in business success	International Research Journal of Commerce, business and social science, Vol. II Issue 3	[ISSN No. 2277-9310]	, 127-131	2013
5	Women in Economic Development Over the Ages.	Global Journal for Research Analysis, Vol.3 Issue 8	[ISSN No. 2277-8160].	53-54	2014
6	Role of small and medium Enterprises (SME).	7 <sup>th</sup> CIMC on gramin samridhi: growth drivers for sustainable rural development	[ISBN No. 978-93-81432-50-1]	348-354	2014
7	Online Learning system architecture based on cloud computing for education, UDYUKTA ,	International Journal in Management and Economics, Vol. 6 Issue 1	[ ISSN No. 2320-1010]	55-62	2015
8	Management education in India: A case study of management education under RTMNU Nagpur	NIT GSM Journal	[ISSN No. 2277-2170].	29-31	2015



9	Impact of communication and information technology services in rural India, Proceeding of UGC Sponsored National Seminar on strategic services marketing in the comprehensive market scenario challenges and opportunities	Conference Proceeding		517-518	2013
10	An analysis of educational disparities in Maharashtra and its effect on socio economic development, Proceeding of 24 <sup>th</sup> Annual conference on Regional imbalance in Maharashtra causes, issues and challenges	Conference Proceeding		19-23	2013
11	Effect of social commerce and social shopping on new brand product, Proceeding of ACUMEN	ACCUMEN	[ISBN No. 978-93-5142-513-7].	157-162	2014
12	An Impact of Subsidies on Rural Women Entrepreneur, Proceeding of UGC Sponsored National Conference on Govt. Subsidies: Boon or Bane Economic development of India, 50	Conference Proceeding	13-978-81-926999-7-4	50-51	2015
13	A critical Analysis of Government Agricultural Subsidies in Indi: An Overview, Proceeding of UGC Sponsored National Conference on Govt. Subsidies: Boon or Bane Economic development of India	Conference Proceeding	13-978-81-926999-7-4	131-132	2015

**Dr. Ashok Kamble (Department of Commerce)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Emerging Markets in Indian Health care Sector	Conference Proceeding	978-81-927078-0-8	366-368	September 2013
2	Global Recession and its impact on Indian economy –A view for 2020	Conference Proceeding	978-81-928735-0-3	21-24	January 2014
3	New era of E-Entrepreneurship in India	Conference Proceeding	978-93-80986-56-2	508-514	January 2016
4	Infrastructural facility for Tourism development in vidarbha region(Maharashtra State)	Conference Proceeding	978-93-5254-253-6	146-149	December 2015



**Prof. Anil Bhaik (Department of Commerce)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Social Media Marketing Techniques used by IDEA Cellular	IJETEMR Journal Vol 2 Issue 2	ISSN NO.2455-7773		June 2016

**Dr. Ninad N. Kashikar (Department of Commerce)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	E-Logistics Structure and Operation	IJETEMR Journal Vol 2 Issue 2	ISSN NO.2455-7773	online	June 2016

**Prof. Anant Sidana (Department of Commerce)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Social Media Marketing Techniques used by IDEA Cellular	IJETEMR Journal Vol 2 Issue 2	ISSN NO.2455-7773		June 2016
2	New era of E- Entrepreneurship in India	Conference Proceeding	978-93-80986-56-2	508-514	January 2016
3	Role and Impact of NAREGA	Conference Proceeding	978-93-5254-253-6	298-300	December 2015

**Dr. Sandhya Jain (Department of English)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Christopher Marlowe's 'Tamburlaine, the Great' An Exploration of the Veer Rasa,	Research Digest Vol.-5, Jan to Mar.2011.	ISSN-0973-6387	43-47	2013
2	Christopher Marlowe's 'Tamburlaine, the Great' An Exploration of the Karuna Rasa,	Unheard Melody	2229-1236 Vol. VII	52-53	2013
3	Globalization and Indian Value System	Special issue 'WCMANU-2012', of BIONANO FRONTIER	2319-636X	92-94	2012
4	'Internationalization of Higher Education in India: Some Concerns'	'Wings',	ISSN No. 2319-1279	27-32	2015
5	Violence of Partition as Reflected in the novel ' Train to Pakistan'	2 <sup>nd</sup> International Interdisciplinary Conference of AIPRA on ' Inequality, Vulnerability and Violence'	ISBN No. 978-81-926818-1-8	41-44	2016

**Dr. Mrs. Shubashree Mukharjee(Department of English)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Mythological and Factual Realities of Githa Hariharan's 'The Thousand Faces of Night': A Feminist Critique	CENACLE	2231-0592	35-40	2012
2	Multiculturalism and the Diaspora: A Study of Jhumpa	CENACLE	2231-0593	30-39	2013





	Lahiri's <i>Unaccustomed Earth</i>				
3	Unleashing of Religious Ethnicity and Feminist Fervour in Manju Kapur's 'The Married Woman': A Critique on Religion vs. <i>Dharma</i>	HISLOPIA	0976-2124	117-124	2013
4	Internal Upheaval vs. External Uprising: A Study of Women's Revolt in Manju Kapur's <i>Difficult Daughters</i> and <i>A Married Woman</i>	Literary Voices	2247-9949	01-13	2014
5	From Rampant Xenophobia to Religious Intolerance: India under Conflict of Interests and Ideals	CENACLE	2231-0592	37-45	2016
6	Incorporation of Innovations in Higher Education: An Institutional Perspective	An Insight into New Strategies and Policies of NAAC in Higher Education	978-93-80287-80-5	96-100	2013
7	Internationalising Institution through English Language	Best Practices for Quality Enhancement in Higher Education	978-81-7192-098-3	238-25	2013
8	'Marginalization of Women in Manju Kapur's <i>Difficult Daughters</i> '	Voices of Dissent in Marginalised Literature	978-81-924656-0-9	59-62	2013
9	Eco Criticism and Literature An Eco Critical Insight into Geetha Hariharan's <i>The Thousand Faces of Night</i>	Eco Criticism and Literature	978-81-926773-1-6	28-36	2013
10	Dropping the Dropout Rate: Challenges and Remedies	National Seminar on Quality Sustenance in Higher Education	978-81-924596-1-5	65-68	2013
11	Emergence of Strong Feminist Psyche in Post Independence Hindi Films	National Seminar on Literature and Films	978-81-92681-36-8	72-76	2014
12	Converting Common Core Courses into Career Conscious Curricula: A Critique on bridging the gap between College & Career for Quality Enhancement	International Conference of Asia Pacific Quality Network	ISSN 1997-2334	36-42	2015
13	Collaborations and Partnerships: An Initiative Towards Institutional Capacity Building.	Academic Innovations and Administrative Reforms to Meet Global Challenges in Higher Education	978-81-9262676-5	131-134	2015
14	Evaluation and Examination Reforms	Role of IQAC in Enhancing Quality of Teaching, Learning and Evaluation Process	978-81-926293	30-34	2016
15	Emergence of Strong Feminist Psyche in Post Independence Hindi Films	National Seminar on Literature and Films	978-81-92681-36-8	72-76	2014



**Dr. S D Deshbhratar(Department of English)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	“Contribution of Indian Philosophers to English Literature”	International Journal ‘Research Analysis and Evaluation’ Vol III, Issue 31 (Apr 2012)	ISSN 0975-3486	, Page 64-65	April 2012
2	“The Study of Common Spelling Mistakes by Undergraduate Students”	Bi-annual Interdisciplinary Research Journal ‘The Knowledge and Research Review’ Vol 11, Issue II, (July 2013)	ISSN 2320-1487	Page 37-41	July 2013
3	“Vocabulary Module to Test the Students”	International Journal ‘Research Analysis and Evaluation’ Vol V, Issue 47-49, (Aug-Oct 2013)	ISSN 0975-3486	Page 13-14	Aug 2013
4	“An Impact on Philosophical Prose Writer”	International Journal ‘Research Analysis and Evaluation’ Vol VI, Issue 64-65, (Jan-Feb 2015)	ISSN 0975-3486	Page 44-45	Jan 2015
5	“Teaching Communication Skill for the Under-Graduate”	International Journal of Researches in Social Science & Information Studies, IJRSSIS, Special Issue (3), Vol- III, Page No 83-84 (Sep 2015) ISSN No 2347-268 (Online)	ISSN No 2347-8209 (Print)	Page No 83-84	Sep 2015

**Dr. Vajyanti Peshve (Department of Marathi)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	King Lear che natsamrat Kartana	Contemporary Drama in Maharashtra: Encouraging Multiculturalism through Translation	ISBN 978-93-81432-95-6	92-95	2013
2	Marathichya Adhyapanat Adhunik Tantracha vaper	International journal of Researches in Social sciences and Information studies	ISSN 2347-8209	210-211	Sep 2015
3	Maharashtra til Korku boliche Swaroop	Rastriya Marathi Sahitya Sanshodhan Samellan	ISSN 2229-4996	65-70	Jan 2017

**Prof. Vinod Raut**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Dalit Katha Udgam ani Vikas	Research analysis and Evaluation	ISSN 2320-5482	62-67	Aug 2013
2	Ambedkari Kaviyatrachya Kavyatil Vedna vishva	DELVE	ISSN 2229-7510	5-10	Sep 2013
3	Adivasi Sahityatil Nisargasunmukhta v Lokjivan	Adivasi Lokshatya Swaroop ani Vyapti	ISBN 978-93-5137-0226-0	119-122	Oct 2013
4	Marathi Sahitya ani Samajikta: Dalit Sahityatil Dalit Kavitechya Sandarbhat	International journal of Researches in Social Science and Information Studies	ISSN 2347-8268	238-242	Sep 2015
5	Namdeo Dasal chya kavitetil	Research analysis and	ISSN 2020-	109-112	Apr



	Dalt- Shoshit Stricha Vichar	Evaluation	5482		2016
6	Namdeo Dasala chya Kavitetil Mahanagriya Janiv	Ambedkarvaad ani Namdeo Dhasal yanchya Kavita	ISBN 978-93-5235-973-8	41-45	Sep 2016

**Dr. K. A. Bhajni (Department of Economics)**

Sr. No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	'Fashion v Tayar kapde Udyog	Research analysis and Evaluation	ISSN 0975-3486	116-117	Apr 2012
2.	'Local Body tax cha Naggpur Sharatil Radymade Garment vyaparavar zalela parinam: Ek Chikitsak Abhyas	Research analysis and Evaluation	ISSN 2320-5482	83-84	Feb 2015
3.	Parent and Child Relationship	Proceeding	ISBN 978-93-82351-04-7	25 to 27	28 July 2012
4.	Loksahi Shashan vyavestet Prasar Madhyamachi Bhoomika	Proceeding	ISSN 2347-8268	188	Sep 2015
5.	Manav adhikar ani Striya	Proceeding	ISBN 178-81-925793-1-3	205	Sep 2015

**Prof. S.R. Adgaonkar(Department of Political Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	An Anatomy of Media & Politics	Department of political sci	ISBN-9789381432990	29 To 31	Sept.2014
2	Prasarmadhyame Manavi hakka ani rajkaran	International Journal of Research in Social Science & Information Studies	ISSN-2347-8268 2347-8209(Print)	163-164	Sept,2015
3	Nagpur Vibhagache Sthanik Rajkaran	An International Level Registered Monthly Research Journal	ISSN 0974-2832,	51-53	Nov-Dec.2015
4	Jilha Niyujanaachi Upukta	An International Level Registered Monthly Research Journal	ISSN 0975-3486	94-95	Nov-Dec.2015

**Dr. A. S. Zoad(Department of History)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Mahatma Gandhicha Shikshan Vishayak Drushtikon	National conf proceeding	ISBN-978-93-80986-93-5	138-139	2013
2	1942 cha Chale Jao Chlvalit Vardha Jilhatil Mahilache Yogdan	National conf proceeding	ISBN- 978-93-5104-691-2	73-75	2014
3	Kaydebhanchya chalwalit Nagpur Jilhyatil Mahilache Yogdan	National conf proceeding	978-93-81432-98-3	51-57	2014
4	Indira Gandhi Chya Kalatil Bharat America Parrashtriya Sambandha	National conf proceeding	978-81-9262-80-04	89-93	2014
5	Savinay Kaydebhancha	National conf proceeding	978-93-	88-91	2015



	Chlvalit Chandrapur Jilhatil Mahilanche Yogdan		82962-93-9		
6	Prachin Va Madhyayugin Kalatil Striyanchi Stitee	National conf proceeding	978-93-82962-93-9	104-106	2015

**Dr. Sucheta Parkar(Department of Sociology)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Balshramikansathi sanvidhanatmak v samajik tartudi v vastavik sthiti	State level seminar	ISBN 978-81-926344-1-8	pg no. 96-100	28 <sup>th</sup> Jan 2013
2	Lingbhav Asamanatecha Parinam-Kanya Bhru hattya.pg no.-124-128	National Seminar Female Foeticide In India:AMovingTrend.Dept ofSociology	DATTSON ISBN 978-81-7192-090--7	pg no.- 124-128	11 Feb 2013
3	Kutubsansthetil Parivartan-Vivahpurva Sahjeevan.	National Seminar Golden Globe,Compilation of Interdisciplinary Research Articals	ISBN No 978-81-927239-0-7	pg.no- 102-106	2013
4	Impact of Social Media and Indian Politics.	National level research journals SANSKODHAN Vol-4,	ISSN 2249-8567	pg.183-186	2015
5	Suicide Prevention :A Sociological Perspective	National Conference Educational Reforms And Its Impact on Suicidal Ideation of Students	ISBN 978-81-926267-1-0	Pg.no.5 1-55	10 <sup>th</sup> &11 <sup>th</sup> sept. 2014
6	Bhartiya Samajatil LingbhavAsamanata vStriyanche Shoshan	2 <sup>nd</sup> Intrenational Iterdisciplinary Confrence Inequality,Vulnerability And Violence.	ISBN-978-81-926818 1-8	.Pg.no.4 34-435	1 <sup>st</sup> Feb 2015,
7	Manovruttincha Karyanishpadanavaril Prabhav	National Conference Shrimadbhagvadgita-Its Present Day Relevance	ISBN- 978-81-925843-2-4	Pg no.312-314	14 <sup>th</sup> - 15 <sup>th</sup> Feb 2015
8	Changing Family Pattern and Improving Education System	13 <sup>th</sup> International Interdisciplinary Conference NIRMIK, Mahatma Fule Talent Research Academy ,Education for Achiieving MillenniumDevelopmentG oals	ISSN-2320-2033	Pg no - 160-162	7 <sup>th</sup> sept.20 14
9	Right To Education of Children	National Seminar Human Rights Education Contextualizing the Need And Importance ,in Educational Institution	ISBN 978-93-82351-56-6.	Pg no- 209-210	14 th march 2015
10	Vartaman samaj jivanat vrudhanpudhil Aavhane ani upay.	Interdiciplinary International conference Aging Through The Ages:From Past to Present and Future Interdiciplinary International conference	ISBN 978-81-7192-121-8	pg-161-162	5-6 dec.20 14



11	Prasar Madhyamanchi Swayattata ani Prabhav.	National Seminar An Autonomy of Media & Politics..	ISBN 978-93-8143299-0,	pg.47-48	15sept. 2014
12	JagtikikaranachaPrabhav ani Dalitanmadhil Pariwartan	National Seminar Scheduled caste and scheduled Tribe in India at the Threshold of Globalization	ISBN 978-93-81621-73-8	pg.no-414-417	3-4-jan 2015
13	Social mediacha kutumbawar honara parinam.	National level research journals SANSKODHAN	ISSN 2249-8567	Pg.182-184	2016
14	Striyanvirudha Honare Cyber Gunhe ani Prasar Madhyamatil Striyanchi Pratima.	National Seminar Socio-Legal Awareness Among Women	ISBN-978-93-80986-93-7	Pg.no-167-172	4 <sup>th</sup> Nov.2 015
15	Aadhunik Kalat Tantrik Upkarnanacha Samajavar Honara Prabhav.	International Journal Mahiti tantraganachya Yugat Bhasha v SamajikShashtracheMahat va.. of Researches in Social science& Information Studies. Special Issue (3), Vol,-III,	ISSN-2347-8209	pg.no-225-227	4sept.2 015
16	Gender Issues and Dropout Rates in India.	National Conference Professional Ethics and Human Values, Interdisciplinary	ISBN -978-93-83139-34-7,	pg no-213-220	18-19 <sup>th</sup> Dec 2016
17	Innovations in Teaching Learning Process.	National Conference Significance of Teaching Learning&Evaluation in an Interdisciplinary Scenario	ISBN-978-93-82351-55-9,	pg no.286-292	7 <sup>th</sup> Jan 2017

**Mrs. Mrunal Waliokar (Department of Home Economics)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Gruhinini mahavidyalayin mulinchya shikshan sandarbhart ghetlelaya nirnay paddatinche adyayan	Swayamsiddha	ISSN 2278-7992	101-105	2013
2	Contribution of home sci in new technical era	International journal of research social science and Information studies	ISSN 2347-8268	Online open access , peer reviewe d 25-26	2015
3	Role and contribution of Home-Economics in make in India	Swayamsiddha Peer reviewed journal	ISSN 2278-7992	10-13	2015
4	Balkanchya apangatwamule palak balak sambadhavar honara parinam	Rajkumar kewalramani mv national conf.	ISBN 978-93-82351-04-07	133-135	2013

**Prof. Nitin Shrigiriwar (MBA-MCA Program)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	A study on Impact of Digital Marketing on consumer buying	International	ISBN: 978-93-5267-373-5	Technical Session –IV 1	3 <sup>rd</sup> -4 <sup>th</sup> Mar 2017



	behavior with reference to Nagpur City				
2.	Changing Scenario of Sales Management in Today's Modern World With Reference To Consumer Electronics goods	Science & Technology for Sustainable Development ICSTSD	ISSN NO: 2455 -7773 VOLUME II, ISSUE II-	4	24 <sup>th</sup> – 26 <sup>th</sup> May 2016
3.	Analytical Study Of Employee Job Morale And Job Satisfaction Of Maharashtra State Road Transport Corporation (M.S.R.T.C.) Nagpur Division	International	ISBN: 978-93-5254-059-4	370	4 <sup>th</sup> – 5 <sup>th</sup> Feb 2016
4.	An Empirical Study Of Managing Diversity at workplace with special reference to Indian organization'	International	INCON –VIII- 2013 ,ISSN- 2320-0065		2013
5	“Mediating Role Of Entrepreneurship Contributing In Economic Development Of India 2014” in OCEAN-2015	National	ISSN:978-93-81432-90-7	327	9 <sup>th</sup> Jan 2015
6	Emerging Role Of Marketing Mix Elements In Tapping Mutual Fund Investors For Growth Of Financial Market In India”in IGNITE	National	ISSN No 2394 269X: Volume No: 1 Edition	875	Jan 2015
7	‘Impact of e-business on the Indian Banking sector’.	National	Conference Proceeding		16 <sup>th</sup> Feb 2013

**Dr. Rajesh W.Vaidya (MBA-MCA Program)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Critical Analysis of marketing strategies adopted by e-retailers in India with special reference to Flipkart and Amazon.com	Discovery Journal	ISSN No: 2278-5450) in VOL 52, ISSUE 242	182-480	1 <sup>st</sup> Feb.2016
2.	A Study On Causes Of Stress Among The Employees And Its Effect On The Employee Performance At The Workplace In An International Agricultural Research Institute, Hyderabad, Telangana, India	IJMRBS- International Journal of Management Research & Business Strategy	ISSN 2319-345X www.ijmrbs.com Vol. 4, No. 4, October 2015 © 2015 IJMRBS. All Rights Reserved		October,2015
3	A study of marketing	South Asian Journal Of Commerce &	0975-8259 Vol.5 No.1		March,2014



	techniques adopted by pharmaceutical companies and its effectiveness in present scenario in Nagpur Region”	Management			
4	An Empirical Study of Managing Diversity at Workplace with special reference to Indian organization.	INCON VIII	e-ISSN:2320-0065		Feb.2013
5	A Study of Investment Strategies Adopted By Investors During Various Stages of Human Life Cycle	UGC Sponsored International Conference On Global Economic Outlook On Recession And Recovery	ISBN 978-81-928735-0-3		Jan. 2014
6	Product Placement in Films and Television an effective advertisement strategy	INCONIX	ISBN:978-93-5158-008-9		Jan, 2014
7	Analysis of e-Banking Services and its Impact on Customer Satisfaction	UGC Sponsored National Seminar on “Strategic Services Marketing in the comprehensive Market Scenario- Challenges & Opportunities	ISBN 978-81-927078		Sept.2013
8	Employee Disengagement Because of Merger- A Case study of educational institution.	State Level Seminar On Emerging Issues In Corporate Strategy	ISSN: 2347-4173.		Oct.2013
9	“A study of marketing techniques adopted by pharmaceutical companies and its effectiveness in present scenario in Nagpur Region”	National Conference on Strategies in the present Day Scenario for Sustainable Growth & Competence	ISSN: 0975-8259		Mar. 2014
10	A Study of Marketing Strategy of Big Bazaar and its Influence on Customers Buying Behavior.	Emerging business trends and Marketing strategies	ISBN No 978-93-8315-829-4		May,2014
11	“Critical Analysis of e-retailing in India.	National Conference - Ocean	ISBN:978-93-81432-90-7		Jan. 2015



		2015.Theme, "Role of Management Education in Entrepreneurship".			
12	The role of HR in improving the institutional Quality, with reference to fringe benefits.	NAAC Sponsored National Conference	ISBN: 9788192681382		March,2016

**Prof. Chaitanya A.Sakhare (MBA-MCA Program)**

S.No.	Title of Paper	International Conference	ISSN No. / ISBN No.	Page No.	Year
1.	A study on Impact of Digital Marketing on consumer buying behavior with reference to Nagpur City	International	ISBN: 978-93-5267-373-5	Technical Session –IV 1	3 <sup>rd</sup> -4 <sup>th</sup> Mar 2017
2.	Changing Scenario of Sales Management in Today's Modern World With Reference To Consumer Electronics goods	International	ISSN NO: 2455 -7773 VOLUME II, ISSUE II-	4	24 <sup>th</sup> – 26 <sup>th</sup> May 2016
3.	Analytical Study Of Employee Job Morale And Job Satisfaction Of Maharashtra State Road Transport Corporation (M.S.R.T.C.) Nagpur Division	International	ISBN: 978-93-5254-059-4	370	4 <sup>th</sup> – 5 <sup>th</sup> Feb 2016
4.	Emerging Role of Customer Relationship Management(CRM) in Value Creation through Management Practices	International	ISBN:978-93-5212-677-4	61	26 <sup>th</sup> Feb -27 <sup>th</sup> Feb 2015
5.	Paradigm Shift In Handling Employee Burnout - Improving Spiritual Quotient” Theme-Paradigm Shift In Management Practices: Challenges And Perspectives for International Conference 2016 at Tirpude	International	ISBN: 978-93-5156-617-5	119	7 <sup>th</sup> and 8 <sup>th</sup> Feb 2014.
6	“Mediating Role Of Entrepreneurship Contributing In Economic Development Of India 2014” inOCEAN-2015	National	ISSN:978-93-81432-90-7	327	9 <sup>th</sup> Jan 2015
7	Emerging Role Of Marketing Mix Elements In Tapping Mutual Fund Investors For Growth Of Financial Market In India”in IGNITE	National	ISSN No 2394 269X: Volume No: 1 Edition	875	Jan 2015





**Prof. Vishakha Hade (MBA-MCA Program)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Study of changes in rural Market	International	ISSN NO : 2455-7773	5	24 <sup>th</sup> – 26thMay 2016
2	Study of effect of Branding on Consumer Buying Behavior with special reference to Haldiram Snack Dry Product	National	Conferecne Proceeding		3rd Mar 2014
3	E- tailing- A buzzword for Encouraging Entrepreneurship in India Today	National	Conferecne Proceeding		16th Jan 2016

**Prof. Neha Wasalwar (MBA-MCA Program)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1.	Study of corporate social responsibility	International	ISSN NO : 2455-7773	2	24 <sup>th</sup> – 26thMay 2016

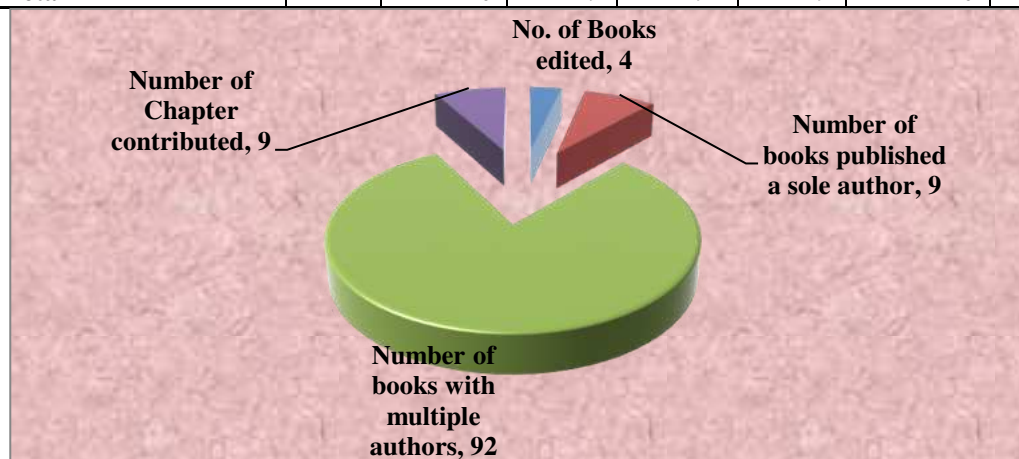
**Prof. S. Inamdar (Department of Library & Information Science)**

Sr.No	Title of Research Paper	Name of the Journal	ISSN/ISBN No	Page No	Year
1	Women & Human Rights	Socio-legal Awareness of Women: Issues & Challenges	978-93-80986-93-7	94-98	2015
2	Use of Indest AICTE Consortium In Engineering College Libraries	Advancements In Library & Information Science & Technology	978-93-80986-93-7	100-104	2016
3	Privatization Of Education : Advantages And Disadvantages	Right To Education In Republic India: Myth or Reality	978-93-82351-72-6	244-246	2016
4	Intellectual Property Right : An Essay	Libraries And Social Responsibilities In The Democratic World : Information Diksha For All	978-81-927239-2-1	100-105	2017



## Details of all Books (authors, title, name of Publication, ISSN/ISBN, years, etc.)

Sr · No	Name of the Faculty	No. of Books edited	Number of Teachers who have edited books	Number of books published a sole author	Number of books with multiple authors	Number of Chapter contributed	Number of Teachers contributing chapters to Books	Total
1	Dr. A K Shende				22			22
2	Dr. Bharat Meghe				8			8
3	Dr. Sonali Yende				2			2
4	Dr. A K Kamble				1			1
5	Dr. S P Puppulwar				4	1		5
6	Dr. Vandana Kaharabe				1			1
7	Dr. Dilip Badwaik				3			3
8	Dr. Sunil Bhagat				9			9
9	Dr. Ashish Mahajan				4			4
10	Dr. Sunita Gadegone				3			3
11	Dr. W B Gurnule	4			12	2		18
12	Dr. Mamta Wagh					3		3
13	Dr. P D Dahikar				2			2
14	Dr. P M Sontakke				1			1
15	Dr. Tiwari				5			5
16	Prof. Pimpalkar				3			3
17	Dr. Saxena			2				2
18	Dr. Kalpana Bhajni			2	5			7
19	Dr. Sandhya Jain				2	3		5
20	Dr. S S Mukharjee			3				3
21	Dr. Vajyanti Peshve			1				1
22	Prof. Sunil Adgaonkar				1			1
23	Dr. Anil Zoad				1			1
24	Dr. Sucheta Parkar			1				1
25	Dr. Rajesh Vaidya				3			3
	<b>Total</b>	<b>4</b>	<b>0</b>	<b>9</b>	<b>92</b>	<b>9</b>	<b>0</b>	<b>114</b>



**Dr. Arvind Shende(Department of Commerce)**

Sr. No.	Title	Name of publication	ISSN/ISBN	Month and year of publication
01	Research Methodology	S.Chand Publication, Nagpur.		2013
02	Taxation in India	Anuradha Publication, Nagpur		2013
03	Financial Account	Anuradha Publication, Nagpur		2013
04	Financial Account II	Anuradha Publication, Nagpur		2014
05	Financial Account III	Anuradha Publication, Nagpur		2014
06	Management Account	Anuradha Publication		2014
07	Taxation Accounting	Anuradha Publication		2013
08	Business Economics	Anuradha Publication		2015
09	Secretarial Practice XI	Asian Publication, Nagpur		2014
10	Auditing & Income Tax	Anuradha Publication, Nagpur		2013
11	Commercial Law & Secretarial Practice	Anuradha Publication, Nagpur		2013
12	Business Law	Anuradha Publication, Nagpur		2013
13	Corporate Accounting	Anuradha Publication, Nagpur		2012
14	Business Regularity Framework and Company Law	Anuradha Publication Nagpur		2012
15	Business Economics	Anuradha Publication Nagpur		2012
16	Basic Economics & Business Environment	Anuradha Publication Nagpur		2013
17	Problem of Income Tax	Anuradha Publication Nagpur		2014
18	Principles of Marketing Management	Anuradha Publication Nagpur		2014
19	Auditing	Anuradha Publication Nagpur		2014
20	Marketing Management	Anuradha Publication Nagpur		2015
21	Income Tax	Anuradha Publication Nagpur		2015
22	Emerging Business Trends & Marketing Strategies (Editorial book contributed for one chapter)	S K Book Agency, New Delhi	ISBN No 978-93-8315-829-4	2015

**Dr. Bharat Meghe (Department of Commerce)**

Sr. No.	Title	Name of publication	ISS N/IS BN	Month and year of publication
01	Financial Accounting, B. Com. Part- III	Datta Sons, Sadar Nagpur.		May 1999
02	Business Economics for B.Com -I	Pimplapure and Company Publisher, Nagpur.		June 2002.
03	Business Law, B. Com. Part-III	Sanskar Prakashan, Nagpur.		Oct. 2004
04	Basic Computer and Statistical Technique, for B.Com.I	SirSahitya Kendra Nagpur.	ISBN No. 978-93-809-86-19-7	2012



05	Economic Analysis for Business Decisions, MBA/M. Com./ B. Com	Himalaya Publishing House Pvt. Ltd. Mumbai.	ISBN No. 978-93-5142-860-2	2014
06	Marketing Management, M. Com. Sem.I	G. C. Publisher Nagpur.	ISBN. No. 978-93-82962-43-4	Sept 2014
07	Computer Application in Commerce, M. Com. Sem-III	G. C. Publisher Nagpur.	ISBN. No. 978-93-82962-42-7	Sept. 2014
08	English and Business Communication, B. B. A. and B.C.C.A	The management consortium.	ISBN. No. 978-93-83664-08-5	2014-15

**Dr. Sonali Yende (Department of Commerce)**

Sr. No.	Title	Name of publication	ISSN/ISBN	Month and year of publication
01	Business Communication	Meherbaba Prakashan, Nagpur	978-93-82962-52-6	2016
02	Computerized Accounting (Tally) According to New syllabus BCCA-III & B.Com-III	Meherbaba Prakashan, Nagpur	978-93-82962-56-4	2016

**Dr. Ashok Kamble (Department of Commerce)**

Sr. No.	Title	Name of publication	ISS N/IS BN	Month and year of publication
01	Business Economics II	SaiJyoti Publication, Nagpur.	978-93-86011-74-9	2017

**Department of Physics**

S.N	Name of Faculty	Name of Books	Publisher	ISBN/ISSN	Year of Publication
1	Mrs, V.R.Kharabe	Geometrical and Physical Optics	GC publication		2012
2	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	Textbook of Physics "Oscillations, Kinetic theory of gases and Thermodynamics" (B.Sc. I Sem II, paper I	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-07-8	Mar 26 <sup>th</sup> 2014
3	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	Textbook of Physics "Gravitation, Astrophysics, Magnetism and Magneto statics ( (B.Sc. I Semester II, paper II)	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-07-9	Mar 26 <sup>th</sup> 2014
4	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	Textbook of Physics "Properties of matter and Mechanics" (B.Sc. I Semester I,	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-07-4	July 15 <sup>th</sup> 2014),



		paper I)			
5	Dr.S.A.Bhagat, Dr. S.P. Puppulwar, Mr. A.P. Mahajan	A textbook of Physics “Electrostatics, Time varying fields and Electric currents” (B.Sc. I Semester I, paper II)	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-29-0	Sept 15 <sup>th</sup> 2014
6	Dr.S.A.Bhagat	A textbook of Physics “Sound Waves, Applied Acoustics. Ultrasonics and Power Supply” (B.Sc. I Semester I, paper II),	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-25-2	Sept 15 <sup>th</sup> 2014
7	Dr.S.A.Bhagat	Physics“Solid State Physics, X-Ray and Laser” (B.Sc. II Semester IV, paper I)	Central Techno Publication, Nagpur	I.S.B.N. NO. 978-81-89178-17-8	Feb 23 <sup>rd</sup> 2015
8	Dr.S.A.Bhagat	A textbook of Physics “Solid State Physics, X-Rays and Lasers” B.Sc. II Semester IV, paper I	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-40-5	Feb 3 <sup>rd</sup> 2015
9	Dr.S.A.Bhagat	A textbook of Physics “Solid state Electronics and Molecular Physics”(B.Sc. II Semester IV, paper II	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-40-4	APR. 2015)
10	Dr.S.A.Bhagat	A textbook of Physics “Physical Optics and Electromagnetic Waves” B.Sc. II Semester III, paper II	RAJNI Publication, Nagpur	I.S.B.N. NO. 978-93-83619-69-6	July. 2015
11	Dr. D. S. Badwaik	“Electrostatics, Electrical Current, Time Varying Field and Electromagnetic waves” B.Sc. I Year Physics Paper III as per RTM Nagpur University	GC publication	ISBN No. 978-81- 926159-7-4	2012
12	Dr. D. S. Badwaik	“Electrostatics, , Time Varying Field and Electrical Currents” B.Sc. I Semester I Physics Paper II As per RTM Nagpur University	GC publication	ISBN No. 978-93- 82962 – 08 - 3	Aug.2013
13	Dr. D. S. Badwaik	B.Sc. I Semester I Physics Paper I & Paper II As per RTM Nagpur University	GC publication	ISBN No. 978-93- 82962 – 08 - 3	2014
14	Dr. S P Puppulwar	Li – Based Phosphors for	Radiation synthesis of	CRC Press, Taylor and	2013



		Thermoluminescence Dosimetry	materials and compounds 7 (2013) 147 – 192	Francis Grp.(UK)	
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**Department of Chemistry**

Name of the Faculty	Details of Book	Chapters	Publishers	ISBN/ISSN No	Year
Dr.S.M.Gadegone	A Text book of Chemistry B.Sc Sem II	02 (organic Chemistry)	Sai Jyoti Publication	978-93-81432-04-4	2016
	A Text book of Chemistry B.Sc Sem V	02 (organic Chemistry)	Sai Jyoti Publication	978-93-86011-32-9	2016
	Organic Chemistry for B.sc sem I for Gondwana University	02 (organic Chemistry)	Rajani Prakashan	978-93-83619-53-5	
Dr.W. B. Gurnule	Inorganic Chemistry, B.Sc.-I Sem-I	-	Das Ganu Prakashan, Nagpur. First Ed. 2013.	ISBN 978-93-81660-63-8	2015
	Physical Chemistry, B.Sc.-I Sem-I As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2013.	ISBN 978-93-81660-72-0	2013
	Organic Chemistry, B.Sc.-I Sem-II As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2014	ISBN-978-93-81660-79-9	2014
	Physical Chemistry, B.Sc.-I Sem-II As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2014	ISBN-978-93-81660-77-5	2014
	Inorganic Chemistry, B.Sc.-II Sem-III As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2014	ISBN 978-93-81660-81-2	2014
	Organic Chemistry, B.Sc.-II Sem-III As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2014	ISBN 978-93-81660-82-9	2014
	Inorganic Chemistry, B.Sc.-II Sem-IV As per new		Das Ganu Prakashan, Nagpur. First Ed.	ISBN-978-93-81660-83-6	2015



	RTM Nagpur University		2015.		
	Organic Chemistry, B.Sc.-II Sem-IV As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2015	ISBN 978-93-81660-84-3	2015
	Physical Chemistry, B.Sc.-III Sem-V As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2015	ISBN 978-93-84336-04-2	2015
	Organic Chemistry, B.Sc.-III Sem V As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2016	ISBN No.978-93-84336-15-8	2016
	Inorganic Chemistry, B.Sc.-III Sem-VI As per new RTM Nagpur University		Das Ganu Prakashan, Nagpur. First Ed. 2016.	ISBN-978-93-84336-16-5	2016
<b>Dr.M.S.Wagh</b>	A Text book of Chemistry B.Sc Sem II	02 (Physical Chemistry)	Sai Jyoti Publication	978-93-81432-04-4	2014
	A Text book of Chemistry B.Sc Sem IV	02 (Physical Chemistry)	Sai Jyoti Publication	978-93-81432-48-8	2014
	A Text book of Chemistry B.Sc Sem V	02 (Physical Chemistry)	Sai Jyoti Publication	978-93-86011-32-9	2014

**Dr. Pradeep Dahikar (Department of Electronics)**

Sr. No	Title	Publishers	ISSN, ISBN	Year
1	Electronics Sem IV	G C Publisher, Nagpur	978-93-82962-63-2	2015
2	Electronics Sem III	G C Publisher, Nagpur	978-81-925501-28-1	2014

**Prof. Pravin Sontakke (Department of Electronics)**

Sr. No	Title	Publishers	ISSN, ISBN	Year
1	Electronics Sem III	G C Publisher, Nagpur	978-81-925501-28-1	2014

**Dr.S.L.Tiwari (Department of BioTechnology)**

Sr. No	Title	Details of Book	Publishers	Year
1	Arsenic and chromium induced oxidative stress in metal accumulator and non-accumulator plants	Reactive Oxygen Species and Oxidative Damage in Plants under Stress	Springer. Germany	2015



	and detoxification mechanisms.			
2	Green technology concept for commercialization: natural indigo an alternative to its synthetic counterpart.	University of Canterbury, New Zealand.	Bentham Science Publisher	2013
3	Metal hyperaccumulating ferns: progress and future prospects.	Recent Advances towards Improved Phytoremediation of Heavy Metal Pollution, ,	Lambert Academic Publishing GmbH & Co. KG, Germany,	2013
4	Sarangi BK, Tiwari S, Yadav D, Pandey RA	Enhance energy density in plants: scope and prospects.	Global Science Book	2012

### Prof. A. S. Pimpalkar (Department Computer Sciecn)

Sr. No	Book Title	Publication	ISS N/IS BN	Year s
1	Object Oriented Programming using 'C ++'	Central Techno Publication	ISBN-9788189178062	January 2015
2	Data Structures	Central Techno Publication	ISBN-9788189178932	August 2015
3	Java Programming	Central Techno Publication	ISBN-9788189178070	January 2015

### Dr. D. R. Saxena, (Department of Zoolgy)

Sr. No	Title	Name of Publication	ISSN / ISBN	Year
1	Zoology-sem B.Sc sem III PAPER I	GC Publication	978-93-82962-38-0	2014
2	Zoology sem IV paper II	GC Publisher	978-93-82962-69-4	2015

### Dr. Kalpana Bhajni(Department of Economics)

Sr. No	Title	Name of Publication	ISSN / ISBN	Year
1	A Text book of Economics B.A .Part I This Book Recommendation of Study of Soc. Sci, RTM Nag. Uni.	G C Publication	978-93-82962-11-3	2013
2	A Text book of Economics B.A .Part II	G C Publication	978-93-82962-32-8	2014
3	A Text book of Economics B.A .Part III	G C Publication	978-93-82962-99-1	2015
4	A Text book of Economics B.Com I	G C Publication	978-93-82962-87-8	2015
5	A Text book of Economics B.Com II	G C Publication	978-93-82962-02-1	2016
6	A Text book of	Meharbaba	978-93-	2016





	Economics B.A .I-- Sem I	Publication	82962-36-6	
7	A Text book of Economics B.A .I-- Sem II	Meharbaba Publication	978-93- 82962-38-0	2016

**Dr. Sandhya Jain (Department of English)**

Sr. No	Title	Name of Publication	ISSN / ISBN	Year
1	Partition and Plight of Women in 'Train to Pakistan' of Khushwant Singh	Partition, the Trauma of partitioned Lives...	ISBN No. 978-81-7192-094-5	2015
2	A Study of Women Characters in the Novel 'El Doredo'	Women Writers in English	ISBN No. 978-81-7192-079-2	2013

**Dr S M Mukhrjee (Department of English)**

Sr. No	Title	Name of Publication	ISSN / ISBN	Year
1.	"The White Tiger: A Panorama of Indian Contemporary Society"	Three Indian Novelists	81-8043-096-0	2012
2.	"Marginality and Quest for Identity of Women in 'The Thousand Faces of Night': A Textual and Inter textual Analysis."	Three Indian Novelists	81-8043-096-0	2012
3.	"Feminist 'Whirlwind' in 'Bawandar': A critical study of feminism in the film."	Word and Image	978-81-7192-083-9	2013

**Dr.V.D. Peshwe (Department of Marathi)**

Sr. No	Title	Name of Publication	ISSN / ISBN	Year
1	Sahitya sanshodhan	Melghatatil Korku v Bhilalanchi Lokgite	ISSN- 2229-4996	2015

**Prof. S. R. Adgaonkar (Department of Political Science)**

Sr no.	Title of Book	Publisher	ISSN/ISBN NO.	Year
1	Indian Govt. & Politics	Anuradha Publication	21-566	Aug 2013

**Dr. A.S. Zoad (Department of History)**

Sr no.	Title of Book	Publisher	ISSN/ISBN NO.	Year
1	Adhunik Bhartacha Itihas	J. K. Publisher	978-93- 82962-17-5	2013

**Dr. Sucheta Parker (Department of Sociology)**

Auhor	Title	Details of Book	Publishers	Year
1	Aarakshan	Magasvargiy Aarakshan v Jagtikikarnache Avhan	ISBN -978-93-81621-73-8	Sudhir Publication 2015



**Dr. Rajesh Vaidya**

	Title of Book	Publisher	ISBN No.	Year of Publication
1.	Course book Human Resource Management for Sem-II	Thakur Publishers, Pune	978-93-82249-65-8	2013
2.	Emerging business trends and Marketing strategies	S.K Book Agency, Delhi	ISBN No 978-93-8315-829-4	2015

**3.4.4. Provide details (if any) of research awards received by the faculty, recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally and incentives given to faculty for receiving state, national and international recognitions for research contributions.**

Awards received by faculty			
Name of the teacher	Name of the award	Level	Awarding Agency
Dr. Bharat Meghe	Best Teacher Award	State	State Government
Dr. Arvind Shende	Best Author Award	University	R T M Nagpur University
Dr. Wasudeo Gurnule	Best Reseacher Award	International	Centre of Advance Research, Chennai
Dr. V D Peshwe	Abhivyakti Vidharbhiya Lekhika Sanshte tarfe "Swargiya Indirabai Ruikar Smriti Puraskar" (For Essay)	State	Abhivyakti Vidharbhiya Lekhika Sansha.
Dr. S. A. Bhagat	Andhashraddha nirmulan wartapatra Sathi Purskaar, Sangli	State	Andhashradha Nirmulan Sammitee

Recognition Received as Reviewer and Editors of Journals		
Name of the teacher	Reviewer / Editors	Journal
Dr. Arvind Shende	Member of Editorial Board	Research Analysis and Evaluation
Dr. Arvind Shende	Member of Editorial Board	Research Analysis and Evaluation
D. Wasudeo Gurnule		



Dr S.S. Mukherjee	Member of Editorial Board	Sahitya Anand
Dr S.S. Mukherjee	Peer Reviewer	The Horizon

**Department of Chemistry**

Awards received by faculty			
Name of the teacher	Name of the award	Level	Awarding Agency
Dr. W. B. Gurnule	Best Oral Paper Presentation Award (First Place). National conference on Role of Basic Sciences in Emerging Industrial Scenario (RBSEIS-2012) , 8 <sup>th</sup> April 2012.	National	Prof. Ram Meghe Institute of Technology, Badnera
	Best Paper Presentation Award (First Place) National conference on Chemistry Education and Research and National Convention of Chemistry Teachers (NCCT-13) . Nov. 8-10, 2013	National	Annamalai University Annamalai Nagar T. N
	Best Paper Presentation Award (Second Place), UGC Sponsored National Conference on Synthesis of Materials: Characterization and Application at J. M. Patel College, Bhandhara, 31 <sup>st</sup> January 2014	National	J. M. Patel College, Bhandhara
	Award of Appreciation, in International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences, at Dept. of Chemistry, RTM Nagpur University, Nagpur.5-7 <sup>th</sup> Feb. 2015	International	Dept. of Chemistry, RTM Nagpur University, Nagpur
	Distinguish Scientist	International	Centre for



	Award- 2016, at ARM-2016 at Chennai by Centre for Advanced Research, Venus International Foundation, Chennai.	onal	Advanced Research, Venus International Foundation, Chennai
	Outstanding Researcher Award-2017, Aufau International Awards Aufau Periodicals, Salem, India	Internati onal	Aufau Periodicals, Salem
Dr.S.M.Gadegone	Best paper Award in the National Conference on Current development in Nanoscience organised by the Department of Physics on 14 september 2014	National	

Recognition Received as		
Name of the teacher	Reviewer / Editors	Journal
Dr.W.B.Gurnule	Reviewer	Journal of Molecular Structure

### SIGNIFICANT CONTRIBUTION

Dr. Gurnule, Reader, Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur has made significant contribution in the field of science and technology. Considering his research contribution in the field of inorganic chemistry, polymer science and analytical chemistry, Dr. W. B. Gurnule has been nominated as a referee by International publishers to review manuscript to be published in the following journals.

S. No	Name of Journal	Publisher	Number of papers reviewed	Impact factor
1.	Inorganic Chemistry Communication	Elsevier science published New York, USA	01	1.854
2.	Talanta-The International Journal of Pure and Applied Analytical chemistry	Elsevier science publisher New York, USA	02	4.206



3	Journal of Applied Polymer Science	Wiley Interscience Publication, <b>USA</b>	07	1.008
4.	High Performance Polymer	Sage Publication ( <b>USA</b> )	01	2.21
5.	European Polymer Journal	Elsevier science publisher, Oxford <b>ENGLAND</b>	02	2.143
6.	Journal of Macromolecular Science (Pure and Applied Chemistry)	Taylor & Francies Inc. <b>Philadelphia, USA</b>	01	1.75
7.	Chemical Engineering Communications	Taylor & Francies Inc. <b>Philadelphia, USA</b>	01	2.18
8.	Iranian Polymer Journal	Iranian society publication	04	1.078
9.	European journal of chemistry	Elsvier publication	02	1.41
10.	Desalination	Elsvier Puclication	02	1.34
11.	Journal of Molecular structure	Elsviers Publication	11	2-11
12.	Journal of Inorganic and Organometalic Polymer	Spinger Publication	11	1.80
13	Chemical Engineering Journal A	Elsviers Publication	08	2.01
14	Arabian Journal of Chemistry	Elsviers Publication	10	1.78
15	Journal of Thermal Analysis and Colorimetry	Spinger Publication	04	2.4
16.	Polymer Bulletin	Spinger Publication	05	1.45
17.	International Research Journal of Pharmacy and Pharmacology (IRJPP)	African society	01	1.8
18	Synthesis and Reactivity in Inorganic, Metal –Organic, and Nano- Metal Chemistry	Taylor & Francies Inc. <b>Philadelphia, USA</b>	01	2.13
19	International Journal of Organic Chemistry	Hindavi Publication USA	01	
20	International Journal of Analytical Chemistry	Hindavi Publication USA	01	0.76
21	Separation Science and Technology	Spinger Publication	03	1.43
22	Research on Chemical Intermediate	Spinger Publication	01	1.2
23	IEEE Trans on Dielectrics and Electrical Insulation		01	
24	Chemistry Letter	Spinger Japan Society	01	5.4
25	Polymer International	John Weily	01	4.7
26	Industrial & Engineering Chemistry Research	ACS Publication	01	
27	Adsorption Science and Technology		01	
28	Journal of Seperation and Purification Technology		02	1.78
29	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy		02	



30	British Journal of Chemistry	Domain	03	
31	Elixir Journal of Chemistry		02	
32	International Journal of Polymer and Environment		01	1.0

### Department of Zoology

Recognition Received as		
Name of the teacher	Reviewer / Editors	Journal
Dr. D. R. Saxena	Peer Reviewer	IRJBAT, Vishwashanti Multipurpose Society, Nagpur, in collaboration with Nanyang University, Singapore (with MoU) (May 2017)
Dr. D. R. Saxena	Life Membar	Vishwashanti Multipurpose Society, Nagpur(2016)

Best Paper/ Poster Presentation Awards in Conferences/ Seminars			
Name of the teacher	Name of the award	Level	Place
Dr. D. R. Saxena	Best Paper Award (Gold Medal), 13 <sup>th</sup> National Symposium, Recent Trends in Life Sciences, Merath, 31 <sup>st</sup> Dec. 1995	National	Life Sciences Society, Lucknow

### Other Recognition:

Twenty Nine (29) teachers have received recognition as M.Phil. and / or Ph.D.guide in various subjects by the Rashtrasant Tukdoji Maharaj Nagpur University.

Dr Subhashree Mukherjee has been appointed as a Member of Curriculum Designing Committee of International Post Graduate Diploma in Quality Enhancement by the Asia Qulaity Pacific Network (APQN)



### 3.5. Consultancy

#### 3.5.1. Give details of the systems and strategies for establishing institute - industry interface?

The college has organized industrial visits to establish institute-industry interface to the students to provide practical orientation. Campus recruitment drives are organized. The industries deliver presentations about their functioning and needs, conduct aptitude tests, group discussions and personal interviews as part of their selection process. Experts from the industry are invited to deliver expert lectures.

The institute-industry interface is established through various means like interaction of students and faculties with expert from industries, expert lectures signing up MoUs with industries to provide on-site training to students etc. (Institution to industry), providing free as well as paid consultancy to industry (Industry to institution).

Many guest lectures, interaction programs, industrial visits, personality development programs have been organized by the college during last five years. Further, it has been the methodology of the college to organize the interaction sessions of students with the industrial experts during their visit to conduct the campus interviews.

Sr. No	Place If Visit	Department	Participants	Date/Year
2	Netravan	Physics	92	03Sep 2016
6	Manas Ayurvedic Kendra	Botany	45	14/09/2016,18/02/2016
10	Concor Icd Nagpur	Commerce	50	16-03-2017
11	Shivam Foods Pvt Ltd.	Commerce	138	06-08-2016
12	Parle G Shivam Foods	Commerce	80	07-01-2016
13	Parle G Shivam Foods	Commerce	95	08-01-2016
14	Parle G Shivam Foods	Commerce	100	09-01-2016
15	State Bank Of India Sakkardara Nagpur	Commerce	60	18-09-2015
16	Parle G Shivam Foods	Commerce	80	28-07-2014
17	Parle G Shivam Foods	Commerce	92	29-07-2014
18	Shivam Foods	Commerce	87	30-07 -2014
19	Shivam Foods	Commerce	96	05-08-2013
20	Shivam Foods	Commerce	82	06-08-2013
21	Shivam Foods	Commerce	93	07-08-2013
33	Oriental Bank	Sociology	15	2016
37	Central Institute For Cotton Research, Nagpur	Dept. Of Biotech.	PG-Msc I &II	25 <sup>th</sup> January, 2014
40	Manas Ayurvedic Farm	Dept. Of Biotech	PG-Msc III Sem	18 <sup>th</sup> Feb, 2016



42	Neeri, Nagpur	Dept. Of Biotech	PG-Msc I &II	3 <sup>rd</sup> Mar, 2017
45	Nrpl Lab	Microbiology	93	2016-2017
51	Darshan Detergents Pvt. Ltd. Dept. Of Chemistry, Marathwada University	Chemistry	38	2013-14
53	Gaillards Cosmetic Pvt.& Ltd Pune	Chemistry	35	2013-2014
63	Shivam Foods	Home Eco.	14	2017
64	Visit To Gorewada Water Treatment Plant By Green Bus	Environmental Science	25	12/09/2014
65	Visit To Regional Meterological Centre, Nagpur	Environmental Science	188	17/08/2015
71	Visit To Kanhan Water Treatment Plant	Environmental Science	50	11/02/2017
73	Visit To Gorewada Water Treatment Plant By Green Bus	Environmental Science	25	12/09/2014
74	Visit To Regional Meterological Centre, Nagpur	Environmental Science	120	17/08/2015
75	Mahindra And Mahindra Pvt. Ltd., Hingna	Electronics	48	12 <sup>th</sup> Jan 2013
76	Avachat Industries Ltd. Wardha	Electronics	39	22 <sup>nd</sup> Jan 2014
78	Visit At Water Treatment Plant, Industry Visit At Microtron System & Prabhakar Industries	Electronics	43	19 <sup>th</sup> Sept 2016
79	Parle Products Ltd, Nagpur	MBA	44	2008
80	Amul Ltd. Nagpur	MBA	48	2009
81	Ub Group, Goa	MBA	41	2009
82	Escort Production Plant, Faridabad	MBA	45	2010
83	New- Holland Tractors, Noida	MBA	43	2012-Feb
84	Parle Products Ltd, Nagpur	MBA	37	2012- Oct
85	Himatsingka Seide Ltd. Bangalore-Mysore	MBA	55	2013
86	Khaitan Electricals Ltd. Delhi	MBA	58	2014-Mar
87	1) Iim- Ahemdabad 2) Amul Dairy, Ahemdabad	MBA	55	2015-Feb





88	Ub Group , Goa	MBA	52	2016-Jan
89	1) Venus Paints, Happy Valley Tea Production Plant, Kolkatta 2) Darjiling	MBA	34	2017-Feb

**3.5.2. What is the stated policy of the Institution to promote consultancy? How is the available expertise advocated and publicized?**

Institution has a well-defined policy to promote consultancy.

The gist of the policy is as follows:

- i. All the employees of the institution are encouraged to provide consultancy in their field of expertise to the society, in non-remunerative as well as remunerative form.
- ii. The consultancy can be extended, provided that; it should not hamper the duties assigned to the employee in any manner.
- iii. For the revenue generated through remunerative consultancy, 90% share be retained with the person who provides the consultancy and 10% be deposited to the College Fund.

The expertise available for consultancy is promoted to various sections of the society through a variety of programs like parent meet, seminar and symposia organized on the campus.

The available expertise are advocated and publicized through the college website, display boards at public places, meetings, alumni meet, annual magazine etc.

**3.5.3. How does the Institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

Kamla Nehru Mahavidyalaya encourages the staff through various staff meetings as well as non-formal communications. Staff members that offer the consultancy are further encouraged by offering maximum (90%) share.



The college also encourages the staff to offer their expertise as a reviewer to the journals of their subject, which is another form of consultancy, though non-remunerative in nature.

College provides its infrastructure and facilities like laboratories, library, and access to internet; to the staff, for better consultancy services.

### 3.5.4. List the broad areas and major consultancy services provided by the Institution and the revenue generated during the last four years.

Major consultancy services provided by the institution and the revenue generated during the last four years.

#### Dr Pradeep Dahikar

Area in which consultancy is provided	Beneficiary	Revenue Generated
Microcontroller Programming and Interfacing	Microtron System	20,000/-
Power Electronics	Auto Power Tech	6,000/-
	Total	26000/-

#### Dr. V. D. Peshwe

Area in which consultancy is provided	Beneficiary	Revenue Generated
National Remote Sensing Centre(Indian Space Research Organisation) from 2016 to till date.	It is useful for Marathi speaking society	Sanctioned 25,000/-

#### Department of Physics

Area in which consultancy is provided	Beneficiary	Revenue Generated
Utilization of Unique Instruments and its expertise	Research Students And MSc Students	15600/-

#### Dr. Subhashree Mukherjee

Area in which consultancy is provided	Beneficiary	Revenue Generated
Guidance for Upliftment and Up gradation of College for NAAC Accreditation and Assessment	G.B.Murarka Arts & Commerce College, Shegaon.	Rs. 10,000/-
Quality Enhancement	Annasaheb Gundewar College	Rs. 8000/-



**Department of Chemistry**

Area in which consultancy is provided	Beneficiary	Revenue Generated
Research Facilities	Vigyan Bharti, Nagpur	Nil
Research Facilities	Dharmpeth Science College, Nagpur Soil Analysis, Water treatment, Separation of Toxic Metals and Conductivity	Nil

**3.5.5. What is the policy of the Institution in sharing the income generated through consultancy (staff involved Institution) and its use for Institutional development?**

All the staff members of the college (teaching and / or non- teaching) are allowed to provide a consultancy in their area of interest / expertise. The income generated is utilized in the following ways:-

- The consultancy can be remunerative or non-remunerative.
- The amount to be charged on the basis of resources available at college.
- For all the remunerative consultancies, share of the revenue generated will be divided as 90% amount to be retained with the expert and 10% is to be deposited to College Fund.

**3.6. Extension Activities and Institutional Social Responsibility (ISR)**

**3.6.1. How does the Institution promote Institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

The institute promotes conduct of extension activities to meet the institutional social responsibilities:

**Institution-neighborhood-community network:**

The college conducts various activities for the schools/colleges across the University. The activities include debating, handwriting competitions, one act play, group songs, essay



writing in Marathi and English. The activities provide momentum to the creative instincts of the students.

Besides, the college its premises to the government/semi-government, public & private sector groups for conducting various competitive exams.

**Adoption of villages:** The institute has adopted neighborhood villages viz. *Temasna and Amgaon Deoli*. Following activities have been conducted in the adopted villages

- De addiction camp
- Visit to Old Age home & interaction with inmates.
- Blood Doanation Camp
- Blood group testing Camp
- Haemoglobing testing Camp
- Survey of Dropout Student
- Voters Awareness Progam
- Awareness regarding hygiene & sanitation
- Tree plantation drives
- Cleanliness Drive



**Evening Library:** College Provides library services for senior citizen in the evening.

- Our college arranges programmes through NSS, in collaboration with RTMNU Nagpur. Regular and special camps are organized to promote social awareness and commitment among students. Students actively participate in various programmes like workshops, rallies, street play, roadshows, etc.
- 50 volunteers are given opportunity to participate in NSS Camp. In the camp, various programmes like Road Show, Cultural Programmes, Posters Exhibition, Rally, hygiene & sanitation drives are organized. NSS programme officer and the members promote the active participation of the volunteers. Reports of all these activities are prepared and duly sent to the University.
- The students from NSS and NCC have volunteered to help police authorities during festivals such as Ganesh Utsav.
- Under the guidance of the University and our College, NSS organizes various programmes **to promote personality development** of the students. Students realize the grass-root level problems of the common people. Volunteers are socially connected with the people. Social leadership gets focused with the help of programmes through NSS.



- For the **overall development of the students**, we arrange various programmes through NSS such as Value education, Save Girl Child, Road Safety, Swaccha Bharat Abhiyan, Yuva Saptah, Tree Plantation and Rally. Value education inculcates ethics among students. Swaccha Bharat Abhiyan enhances patriotism among students. It also helps develop National Integrity. Ultimately, all these activities help students become good citizens.
- The College arranges programmes like Avishkar and Students Research Projects competitions.
- To enhance research aptitude among students such programmes are organized.
- Department of **chemistry** has motivated the Students to Participate in *Swacha Bharat Abhiyan* Campaign. Students of PG have done water analysis of Potability in slum area of Orange city Khamla and information is given to the people about the contamination and removal of those contaminations. Department of Chemistry in Collaboration with Home Science department has organized Small workshop for *Mahila Bachat Gat*. They were given the information about the preservatives.

### **3.6.2. What is the Institutional mechanism to track students' involvement in various social movement / activities which promote citizenship roles?**

The college conducts various activities which are funded by the management to involve students in inculcating good citizenship and social responsibility. The NSS unit of the college maintains a diary wherein the activities of students' involvement in various social events are maintained. Women's Development Cell conducts various activities involving students to spread awareness about current social issues. Records of these various activities conducted during the year and participation by the students in activities are maintained.

The institution encourages active participation of students in various social activities promoting citizenship role. It is made sure that the sense of citizenship is inculcated in as many students as possible. This is achieved mainly through NSS



and NCC units. Beyond this, the students are encouraged at departmental level too.

This is done in following ways:

1. Students are asked to produce a report of the camp/activity attended by him. Outstanding activities are encouraged and repeated for enhanced awareness.
2. All volunteers maintain a student activity diary. NSS programme officer with the help of NSS student representative, verifies the Student activity diary to track his/her participation. In case of participation in large groups, students are distributed in small heterogeneous groups who elect their group leader. These group leaders monitor the participation of students and communicate the same to the NSS programme officer. In the NSS camps, attendance is monitored.
3. Students with outstanding contribution in their respective groups are felicitated. Two students are selected each year for best NSS volunteer and are felicitated during Annual Social Gathering.
4. While forwarding proposals for various gold medals/ awards instituted by the University or Government, due consideration is given to the contribution of the student in extension activities.

### **3.6.3. How does the Institution solicit stakeholder perception on the overall performance and quality of the Institution?**

The college has regular formal and informal interactions with various stakeholders and all suggestions for improvement of overall performance and quality are acted on according to the suggestions of the IQAC.

Feedback is a major means of assessing the overall performance and quality of the institution. Feedback from all the stakeholders including Students, Parents, Employers, Alumni, Staff collected formally and informally.

**Students:** The students of the institution provide following formal feedback for:

- a. Syllabi
- b. Teaching



c. General Management & Administration

d. Infrastructural and support facilities

**Parents:** Parent meet is an integral part of the academic planning. Formal feedback are also obtained from the parents.



**Alumni:** Formal and informal Feedback from alumni have been received to assess the performance of the students and institution.

**Staff:** A regular feature of the institution is Staff meeting (teaching as well as non-teaching). It offers an open platform for the staff, administration and Management Council to review the performance of the institution.

**3.6.4. How does the Institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**

All the extension activities are planned and executed as per the activity planner of the college; which is framed at the commencement of the academic year. Proposed extension activities are sought from various departments, forums, staff and students. The same are incorporated into the annual activity planner of the college. Expenditure details for last Five Years is as follows:

Academic Year	University Sactioned	Actual Expences	Expences borne by the college
2012-2013	43000	61458	18458
2013-2014	43000	66806	23806
2014-2015	43000	74743	31743
2015-2016	43000	66411	23411

1. Adoption of nearby villages and organization of activities such as Well Sanitation, Development of Hall, Garden development, Village Sanitation, etc.
2. Blood Donation camp in the memory of Late Govindrao Wanjari in the month of August every year in association with Ayush Blood Bank, IGMCH Nagpur.

**C. Impact on the overall development of students:**

Participation of students in the extension and outreach activities has had tremendous impact on their overall development. The students have been able to:



- Develop among themselves a sense of social and civic responsibility;
- Utilize their knowledge in finding practical solution to individual and community problems
- Develop competence required for group living and sharing of responsibilities
- Gain skills in mobilizing community participation
- Acquire leadership qualities and democratic attitude
- Develop capacity to meet emergencies and natural disasters
- Practice national integration and social harmony.
- Understand themselves in relation to their community
- Identify the needs and problems of the community and involve them in problem solving process

### 3.6.5. How does the Institution promote the participation of student and faculty in extension activities including participation in NSS, NCC, YRC and other National /International agencies?

- The NSS Programme officers and officers of NCC unit organize Orientation programme for students which helps them get insights about NSS and NCC.
- They are also informed about the advantages related to career and academics.
- Each NSS volunteer is rewarded with Certificate of Participation jointly by College and RTMNU.
- The names of NSS volunteers and NCC Cadets are recommended by the college for various training programmes / camps.



#### NSS Volunteer for the last 4 Years

Sr.No.	Year	Allocation	Actual Enrollment		
			Male	Female	Total
1.	2012-13	100	60	40	100
2.	2013-14	100	60	40	100
3.	2014-15	100	60	40	100
4.	2015-16	100	60	40	100
5.	2016-17	100	60	40	100





The College deputed following NSS & NCC Officers and other teachers to attend Training Camps, Orientation and Refresher Courses.

Name	Nature of Training	Duration	Place
Prof. Pravin Sontakke	Pre-Commission Course SD158	19 July 2015 to 20 Oct 2015	Officer Training Academy Kampthee Nagpur
Prof. Pravin Sontakke	Centrally Organize Inter Group Competition and Thal Sena Camp	05 Aug to 19 Aug 2016	Amravati
Dr. Ashok Kamble	NSS Orientation Program	19-30 Apr 1993	Deonar, Mumbai
Dr. Ashok Kamble	NSS Refresher Program	20 to 24 Feb 2009	RTMNU

- 1) Prof. P. M. Sontakke, faculty from department of Electronics, is a NCC coordinator and Associate NCC Officer and participates in all social activities held by NCC Nagpur Group Head Quarter
- 2) He has also participated in centrally organized, Inter Group Competition **Thal Sena Camp**, held at Amravati in Aug. 2016 as **Contingent Commander of Nagpur Group**.
- 3) Following students of this department are selected for centrally organized, Inter Group Competition Thal Sena Camp, held at Amravati in Aug. 2016:
- 4) CDT Aman Parate
- 5) SUO Shubham P. Bhanuse student of B. Sc. Sem-IV (Electronics) participated in Centrally organized **Para trooper and Para Jumping training camp held at Agra, and selected as Best Cadet**.
- 6) Following Students of this department are enrolled in NCC and take part in every NCC activities:
  - 1) SUO Shubham P. Bhanuse – B. Sc. Sem-IV
  - 2) CDT Sachin P. Kumbharkar- B. Sc. Sem-IV
  - 3) CDT Aman Parate B. Sc. Sem-IV
  - 4) CDT Akash Lende B. Sc. Sem-II
  - 5) CDT Swapnil Paunikar B. Sc. Sem-II



**3.6.6. Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower student from underprivileged and vulnerable section of society?**

Most of the extension activities of the college are carried out keeping in mind the underprivileged sections of the society. Apart from the NSS & NCC various departments of the college carried out extensionwork either in villages or slum areas where most of the underprivileged sections of the society live. Some of the extension activities are as given below:

**Physics**

- Students of department of Physics visited to different homes for counseling and demonstration on “USE OF SOLAR ENERGY : Today’s Need”
- Students constructed clay DAM at Netravan for saving water.

**Chemistry**

- Vigyan Bharti, Nagpur&Dharmpeth Science College, Nagpur along with the Chemistry department conducted Soil Analysis, Water treatment, Separation of Toxic Metals and Conductivity.

**Botany**

- Awareness regarding plantation and mosquito repellent plant at Katla bodi village by street act.
- Donation of medicinal plant to villagers of Kapeshwar
- Awareness regarding plantation and mosquito repellent plant in nearby areas

**Environmental Science**

- Awareness regarding plantation and deforestation
- Environmental Awareness in different institutions, school and colleges.

**Cosmetic Technology**

- Counseling on Skin care–feet treatment in and Hand slum areas

**Microbiology**

- Blood group identification & awareness about HIV in slum areas.

**Commerce**



Banking Awareness Programme at Slum Area, Sonarzari , Nagpur

- Miscellaneous form filling activity by English department in slum area

### Economics

- Awareness for women's entrepreneurship organized by college cluster Utkarsha in Kamthi Manav vihar.
- Free Health Check up camp for 117 women in Kamthi.

### Political Science

- Voter's Awareness Program, giving information regarding govt. schemes, explaining powers and functions of local self government, etc.

### Sociology

- Students Participate in **NO Crackers** campaign During Diwali Festival.
- Students also participate To Teach Footpath Childrens.
- MOU was signed with Green Vigil and UPAY
- Students Participate in various Social Activities organized by UPAY organization like to celebrate **Rakshabandhan** with Footpath Children's and also arrange **Drawing Competition** for them etc.

### Home-Economics

- Give the training of food preservative dishes to bachat gut womens at priyanti public school Tarodi

### History

- Teaching students the importance of History subject, historical monuments, historical places, how we can develop the knowledge about our past in Snehi Vikas Vidyalaya, Bhugaon there.
- Telling importance of history subject in various competitive exams as like UPSC, MPSC to nearby students.

### Music

- Training blind as well as other differently abled children in Sanskar Shibir
- Training in singing of bhajans to women of Bela village.
- Training students in devotional songs



- Training foothpath and deprived children in children songs.
- Organizing PAHAT PHERIS during festivals.
- Free of cost training in music to people in the church
- Imparting free of cost training to school band

## MBA

- Personal Interview workshop conducted for students
- Personality development workshop conducted for students
- Awareness program organized on use digital payment system
- Promotional activity to promote use of paper bags instead of plastic bags to save environment.

### **3.6.7. Reflecting on objectives and expected outcomes of the extension activities organized by the Institution, comment on how they complement students' academic learning experience and specify the values and skill inculcated.**

The institution aims at developing responsible citizens having social awareness and leadership qualities. Various programmes and activities organised by the institution not only enrich students' academic learning but also develops various skills such as:

- Team work
- Leadership
- Dealing with challenges
- Patriotism
- Human touch
- Self-esteem enhancement
- Spirit of service to the society
- Communal harmony
- Gender sensitization

Students' participation in activities such as celebration of Sadbhavana Diwas, voter's awareness camp, blood donation etc. develop spirit of patriotism while programmes such as 'Save the Girl Child', prohibition of dowry etc. sensitizes them about gender issues. Organisation of annual NSS and Leadership



Camp develops team work, community living and leadership qualities among students

**3.6.8. How does the Institution ensure the involvement of the community in its reach out activities and contribute to the community development? Details on the initiatives of the Institution that encourage community participation in its activities?**

The reach-out activities of the college and involvement of the community in these activities is summarized in the following table:

Reach Out activities	Encouragement to Involvement
Ganesh Visarjan	Students of Department of Zoology and volunteers from NSS have removed the remains after Ganesh Visarjan from the nearby Gandhi Sagar Lake with the help of locals
Visits to Schools for Deaf and Dumb, Orphanages	Volunteers of NSS and Students of Sociology have visited School for deaf and dumb and Orphanage
Blood Donation Camp	In association of Ayush Blood Bank, the college organizes blood donation camps every year on the occasion of Birth Anniversary of Late Govindraoji Wanjari
ladies from rural area are given training about the setting of small scale industries	Department of Chemistry, Department of Biotechnology, Department of Home Science, had organised Programme for <i>Mahila Bachat gat</i> on 30 <sup>th</sup> February 2016.

**3.6.9. Give the details on the constructive relationship forged (if any) with other Institutions of the locality for working on various outreach and extension activities**

Constructive relationship with other institutions of locality for working on outreach and extension activities:

Sr. No.	Name of the institute with relationship forged	Nature of work
1.	Ayush Blood Bank, Nagpur	Organization of blood donation camps at the college. More than 350 bags of



		blood were donated.
2.	Gram panchyat of Village Temasna Gram panchyat of Village Amgaon Deoli	Tree plantation in adopted villages

### 3.6.10. Give details of awards received by the Institution for extension activities and / contribution to the social / community development during the last four years

Although the college contributes various extension activities through out the year for the welfare of society, but The college has not received any award till date for extension activities.

## 3.7. Collaboration

### 3.7.1. How does the Institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives - collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

Kamla Nehru Mahavidyalaya understands an importance of collaboration and its wide impact on academics and research. The college welcomes such opportunities to enhance mutual understanding of the object of study and shares the infrastructural facilities and equipment to ensure equal opportunity in society.

The college has collaborations and interactions with research laboratories, institutes and industry. The Industry Institute Interaction Cell of the college facilitates establishing linkages with other academic institutes/industries. The institution collaborates and interacts with research laboratories, institutions of repute and industry for research activities, exchange of academic expertise etc. These collaborations are either at institutional level or on informal/ personal liaison basis with individual academia/ professional from various institutions/ universities. The institution level collaboration is sought particularly for the characterization / use of advanced facilities and equipment etc. available at the reputed institutes and universities. College makes a formal request to the institute to provide the required support and required assistance is provided to the staff /students in this context.



The institutional collaborations are also done in terms of knowledge sharing, experimental work at the outside institutes, use of academic facilities like library, access to various e-resources which results in collaborative publications / patents.

Teachers of the college have taken up research with other Institutes/ Research Laboratories. This has resulted in **collaborative research** publications.

The teachers of the institute have filed 2 **Patents** during the assessment, of which 1 have been granted.

College extends its support to the research scholars even outside the campus. The **facilities** include use of many sophisticated instruments for material synthesis, data analysis, characterization facilities, reference work etc. Also, many researchers visit other institutes / centers for research surveys, collection of primary data etc. Following are some specific examples:-

**Department of Chemistry is collaborated with:**

1. National Chemical Laboratory, Pune.
2. LIT RTM Nagpur University, Nagpur.
3. Dept. of Chemistry, RTM University, Nagpur.
4. Dept. of Chemistry, PG and Research Lab., Jamal Mohamed College (Autonomous) Tiruchirappalli, Tamilnadu.
5. Dept. of Chemistry, Priyadarshani College of Engineering, Nagpur.
6. C. V. Raman University, Bilaspur.
7. VNIT Nagpur
8. ICAR-CICR

**Department of Zoology**

1. Dr. D. R. Saxena is associated with IRJBAT, Vishwashanti Multipurpose Society, Nagpur, in collaboration with Nanyang University, Singapore (with MoU) (May 2017) as a peer reviewer of Journal and he is also a life member of Vishwashanti Multipurpose Society, Nagpur.



**3.7.2. Provide details on the MoUs/collaborative arrangements (if any) with Institutions of national importance/other universities/ industries / Corporate (Corporate entities) etc. and how they have contributed to the development of the Institution.**

The details of the MoUs/ collaborative arrangements and the benefits thus are tabulated under:

**Sociology**

S.No.	Name of the Organization	Purpose of Collaboration	Outcome of Collaboration
01	<b>Green Vigil</b>	To aware students about environmental pollution	More students have become environment conscious and have become socially more responsible
02	<b>UPAY</b>	To educate street childrens {Footpath shala }	Our students have become conscious about the socially deprived classes

**English**

S.No.	Name of the Organization with MoU is done	Purpose of Collaboration	Outcome of Collaboration
1.	Shakespeare Society of India, Vidarbha Chapter	Study of Shakespearean Literature	Interest and awareness about Shakespeare and Elizabethan theatre was developed

**Economics**

S.No.	Name of the Organization with MoU is done	Purpose of Collaboration	Outcome of Collaboration
1.	SPARK	Developing students for various competitive exams	
2.	Utkarsha (College cluster)	Women's empowerment	Several women are ready to attend special training programs for starting their own business

**Department of EVS**

S.No.	Name of the Organization with MoU is done	Purpose of Collaboration	Outcome of Collaboration
1	Green Vigil	Environmental Conservation	More students have become environment





			conscious and have become socially more responsible
2	SEAT (Save Ecosystem and Tiger)	Wildlife Conservation	PG students go for wildlife projects

#### Department of Cosmetics Technology

S.No.	Name of the Organization with MoU is done	Purpose of Collaboration	Outcome of Collaboration
1	Vivimed Labs Ltd., Hyderabad, A.P.	Internship and training	Enrichment in technical knowledge
2	Nisha Herbals Pvt. Ltd.	Internship and training	Enrichment in techno-marketing skills

#### 3.7.3. Industry-Institution-Community interactions that have contributed to the establishment / creation / up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

Since its establishment, the college is known for its association with all the sections of the society. The college itself was established through the support from all the sections of society. The college has continued its legacy of nurturing the healthy relationship with industries, other institutes and community. This has resulted in to increase in number of placements.

#### 3.7.4. Highlighting the names of eminent scientists/participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Eminent scientists/participants who contributed to the events at college campus

College has been very instrumental to organize various events for the development of staff and students. Many scientists, eminent personalities have visited the college through such initiatives. Details of conferences and the distinguished visitors are as follows:



Title of the Seminar/ Conference/ Program	Name of Scientist/ Participants	Department/Institution
<b>Department of Mathematics</b>		
A National Conference on Frontiers of Mathematics on 22 <sup>nd</sup> March 2013 Organised by Department of mathematics	Dr .K.C. Deshmukh	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Ravi Saraykar	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Pradeep Siddheshwar	Banglore University
	Dr. Abhijit Lahiri	Jadhavpur University
	Dr. Kishor Adhav	SGB Amravati University.
<b>Department of Political Science</b>		
National level seminar on “An autonomy of media and politics”, held in Kamla Nehru Mahavidyalaya, on 15 <sup>th</sup> Sept 2014	Dr. Jogendra Gavai	Head, Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Mohan Kashikar	Professor, , Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Jain	Head, Dept. of Political Science, Atal Bihari Vajpai college, Indore
	Dr. Alka Deshmukh	Chair person, Board of studies, RTM Nagpur University Nagpur.
Orientation Program on “Political Science’s UG /PG Syllabus and current Political Environment & Emerging Career Opportunities”, held on 28 Sept 2016	Dr. Sangita Meshram	Dean, Social Science, RTM Nagpur University, Nagpur.
	Dr. Mohan Kashikar	Professor, , Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Jogendra Gavai	Ex Head, Dept. of Political Science, RTM Nagpur University Nagpur
	Dr. Ashish Lal	Director, MIT School of Govt. Pune.
	Dr. Ashish Kelkar	Professor, MIT School of Govt. Pune.
	Dr. Ashok Kale	Ex Principal, J. M. Patel College, Sakoli
Dr. Alka Deshmukh	Professor & Head, Dept. of Political Science, S. B. City College, Nagpur	
<b>Department of Zoology</b>		
Guest Lecture on “Ways of tiger” on 23 <sup>rd</sup> Feb 2017.	Dr. A. N. Lonkar	Head & Associate Professor, NAMW college, Umrer.
<b>Department of Electronics</b>		
National Conference on “Advanced Multifunctional	Dr. Navinchandra G. Shimpi	Department of Chemistry, Tilak Bhavan, University of Mumbai.



Materials”, held on 17 & 18 March 2017.	Dr. B. Shreedhar	CSZR-IICT, Hyderabad
	Prof. N. S. Gajbhiye	IIT-Kanpur, Ex-VC, of Central University, Sagar
National Conference on, Biomedical Instrumentation related Hardware and Software, held on 04 <sup>th</sup> Feb 2017.	Dr. Vidyasagar Rao	Pro-Vice Chancellor, SRT Nanded University, Nanded.
	Dr. Basant. Tiwari	Department of Electronics, Bhopal University, Bhopal
	Dr. S. J. Sharma	Department of Electronics, RTM Nagpur University, Nagpur
	Dr. Arvind Shaligram	Department of Electronics, Savitribai Phule Pune University, Pune.
Inauguration of Science study Circle- 2015-16	Dr. Gourish M. Naik	Head, Department of Electronics, Goa University, Goa
	Dr. Nilesh Meshram	Head, Department of Electronics, SM Mohata Science College, Nagpur.
Expert / Guest Lectures	Mr. Sameer P. Chaure	Manager, Prolific Systems and Technology Pvt. Ltd.
	Umesh B. Tirbude	Junior Engineer, BSNL, Nagpur
	Dr. Ajay Sharma	Department of Physics, Nabira Mahavidyalaya, Katol.
	Dr. Amrut Lanje	Head, Department of Electronics, Dr. Ambedkar College, Chandrapur
	Dr. Bhanddakar	Department of Electronics, Anand Niketan College, Warora.
<b>Department of History</b>		
Guest Lecture on topic,” Role of Women in Freedom fight” held on 10 <sup>th</sup> Aug. 2013	Dr. Sangita Meshram	Associate Professor, , Department of History, RTM Nagpur University Nagpur.
Guest Lecture on topic,” Contribution of Revolutioners” held on 18 <sup>th</sup> Sept 2014	Dr. Shubha Johari	Head, Department of History, RTM Nagpur University Nagpur.
National Conference on “ Role of women in Indian freedom struggle” held on 17 Sept. 2014	Dr. Mishra	Ex- head, Dept. of History, Bhopal University, Bhopal
	Dr. Shubha Johari	Head, Department of History, RTM Nagpur University Nagpur.
	Dr. Sangita Meshram	Associate Professor, , Department of History, RTM Nagpur University Nagpur.
Guest Lecture on topic,” Chhatrapati	Ms. Nishi Dixit	Ex-Associate Prof., C. P. & Berar College, Nagpur.



Shivaji yanchi Raajni” held on 20 Jan 2015		
Guest Lecture on topic,” Role of Tribes in Freedom Struggle” held on 30 Sept. 2015	Dr. Shyam Kalinde	Principal, Pratap Mahavidyalaya, Amalner.
Guest Lecture on topic,” Itihasache Rojagarat Mahatva” held on 17 <sup>th</sup> Aug. 2016	Dr. Shyam Koreti	Asst. Prof., Department of History, RTM Nagpur University, Nagpur.
<b>Department of Library Science</b>		
UGC sponsored National Conference On Modern Management Techniques For Libraries In IT Era , Held on 10 <sup>th</sup> July 2013	Dr. Rajendra Kumbar	Prof.DLIS, University Of Pune
	Dr. R.N. Deshpande	Librarian , VNIT Nagpur
	Prof. Dhavle	Ex Librarian, S B City College Nagpur
	Dr. Veena Prakash	Sr Information Scientist RTM Nagpur University Library
<b>Department of Commerce</b>		
Expert Lectures arranged on 6 <sup>th</sup> September 2013 On the topic “Income From House Property” by Department of Commerce	CA. Rina Jain	CA. Rina Jain & Co. Chartered Accountant
Expert Lectures arranged on 20 <sup>th</sup> December 2013 On the topic “Scope of Auditing in Business” by Department of Commerce	Dr. Jaylaxmi Binwar	Branch Manager Buldhana Urban Co-op Bank, Ramdaspeth Branch Nagpur
Expert Lectures arranged on 05 <sup>th</sup> December 2014 On the topic “How to compute tax for Individuals” by Department of Commerce	CA. Chetan Bhandirge	CA. Chetan Bhandirge & Co. Chartered Accountant
Expert Lectures arranged on 07 <sup>th</sup> January 2015 On the topic “Income From	CA. Sagar Wazarkar	CA. Sagar Wazarkar & Co. Chartered Accountant



Business and Profession ” by Department of Commerce		
Expert Lectures arranged on 28 <sup>th</sup> August 2015 On the topic “Opportunities In Chartered Accountancy Course ” by Department of Commerce	CA. Kirti Agrawal	President WIRC Nagpur Branch
A lecture on personality development wad Delivered on 05 <sup>th</sup> of January 2016 by Department of Commerce	Mr. Piyush Sharma	Area Manager Johnson and Johnson
A Interactive Session on “Development of Indian Economy” was organized by Department of Commerce On 23 <sup>rd</sup> January 2016	Dr. Jobi George	Principal, Bhiwapur Mahavidyalaya Bhiwapur
A guest Lecture on “Time and Stress Management ” was organized by Department of Commerce On 09 <sup>th</sup> September 2016	Mrs. Uma Sharma	President Divine India (Social Activity Organization)
A Power point presentation was organized by Department of Commerce on “Cyber Crime” on 3 <sup>rd</sup> December 2016	Mr. Amit Bhure	Expert Analyst Cyber Crime Cell Nagpur City
A guest Lecturer on “Awareness of Consumer Protection Act ” was organized by Department of Commerce On 05 <sup>th</sup> January 2017	Dr. Kalpana Upadhyaya	Incharge Study Circle, Grahak Panchyat Nagpur Branch.
<b>Department of English</b>		
State Level Seminar	Mr Vikash	Noted Theatre personality in



on Contemporary Drama on 6 <sup>th</sup> March 2013, organized by the Dept of English	Khurana,	Vidarbha, Nagpur
	Dr. Dinesh Nayar	Mumbai University
	D in Nagpur Supantho Bhattacharya, noted actor and Director	Associate Professor in English, Hislop College, Nagpur
<b>Department of Sociology</b>		
University Level Seminar on value Crisis in Indian Emerging Society	Adv. Madan Senad	Famous Lawyer
	Dr. Jyoti Selokar	HoD, Dept. of Sociology, Bar. Wankede College, Khaparkheda
	D in Nagpur Supantho Bhattacharya, noted actor and Director	Associate Professor in English, Hislop College, Nagpur
National Conference on Globalization and its Impact on Indian Family System	Dr. Chandrashekar Mina	DCP Nagpur Region
	Dr. Arvind Joshi	Banaras Hindu Vidyapith
<b>Department of Marathi</b>		
Shuddha Lekhanachi Karyashala	Prof. Deepak Rangari	Editor Lokmat Daily
<b>Department of Chemistry</b>		
DST sponsored national conference on multifunctional advanced materials 17-18 <sup>th</sup> march 2017	Mr. B. T. Thakkar,	Department of Chemistry, Vidyadi Institute of Science, Surat, Gujrat
	Navin Chandra Shimpi	Associate Professor University of Mumbai
	Dr. Rehlan	Scientist BARC
	Prof N. S. Gajbhiye	Ex VC Sagar University
DST sponsored national conference on Nanoscience and smart material	Prof N. S. Gajbhiye	Prf. IIT Kanpur
<b>Department of Mathematics</b>		
A National Conference on Frontiers of Mathematics on 22 <sup>nd</sup> March 2013 Organised by Department of mathematics	Dr .K.C. Deshmukh	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Ravi Saraykar	Department of Mathematics, Rashtrasant Tukdoji Maharaj Nagpur University
	Dr. Pradeep Siddheshwar	Banglore University
	Dr. Abhijit Lahiri	Jadhavpur University
	Dr. Kishor Adhav	SGB Amravati University.
<b>Department of Microbiology</b>		
Guest lectures	Dr. Nitin	Asst Professor PGTD of



(2014-15)	Dongarwar	Botany RTMNU
	Dr. Amudha	Senior Scientist CICR Nagpur
Guest lectures (2015-16)	Mr. Bhangu	Retired Forest officer Nagpur
	Dr. B.K. Sarangi	Principle Scientist NEERI
Guest lectures (2016-17)	Dr. Prabodh Halde	Manager Marico Mumbai
	Mr. Vivek Ranade	Organic Farming Consultant
	Mr. Mukund Sherekar	Naturopath
	Mrs. Monica Raghorte	District Malaria officer, Nagpur
<b>Department of Home Economics</b>		
Guest Lecture on 10 <sup>th</sup> Feb 2012	Miss. D. Ghagargunde	Assit prof. Nabira college Katol
Guest Lecture 7 <sup>th</sup> Feb 2012	Dr. Smita Patterkine	HOD Heco. Dept. Rajkumar Kewalramani Mv. Nag.
Guest Lecture 2 <sup>nd</sup> Feb 2013	Dr. A. Neole	HOD Heco. Dept. Nabira college Katol.
Guest Lecture 23 <sup>rd</sup> Sept. 2015	Dr. Jayshree Pendharkar	Nutritionist, Nagpur
Guest Lecture 18 <sup>th</sup> Sept 2015	Dr. Rajiv Mohta	Children specialist
Guest Lecture 22 <sup>nd</sup> Jan 2016	Mrs. Rashmi	Sheif, LG Microwave
Guest Lecture 20 <sup>th</sup> Sept 2013	Dr. Anjali Bhandarkar	Counselor, Nagpur
Guest Lecture 14 <sup>th</sup> sept 2016	Dr. Shreebala Deshpande	HOD Heco. Porwal college Kamptee
Guest Lecture 21 <sup>th</sup> Dec. 2015	Dr. Manisha Ithape	Counsellor, Amarawati
Guest Lecture 27 <sup>th</sup> Aug. 2016	Dr. Sushma Deole	Nutritionist, Nirmal Health Care
Guest Lecture Dec. 2016	Dr. Sorte	MD. Gync.
Guest Lecture 27 <sup>th</sup> Aug. 2015	Raja Akash	Counselor, Nagpur
<b>Department of Environmental Science</b>		
Indoor Air Quality, 2012-13	Dr. S. Kalkar	HOD of Botany Dept. Institute of Science college, Nagpur
Advanced Water and Waste Water Treatment, 2013-14	Dr. Kaustav Chatterjee	Head person at Reva Enviro, Nagpur
Current Environmental Issues in Nagpur City, 2014-15	Dr. Kaustav Chatterjee	Head person at Reva Enviro, Nagpur



Wild Life Conservation, 2015-16	Mr. Rajendra Bhangu	Retired Forest Officer Nagpur
Environmental Issues in Nagpur City, 2016-17	Dr. C.A. Moghe	Re. Scientist EIRA Dept. NEERI, Nagpur
Analytical Techniques, 2016-17	Dr. N.S. Raman	Dept. Director NEERI Nagpur
Lecture on EIA, 2016-17	Dr. N.S. Raman	Dept. Director NEERI Nagpur
<b>Department of Cosmetic Technology</b>		
Presentation on Contract Research 2012-13	Mr. Vinay Kumar Singh,	General Manager , Mikasa Cosmetics , Gujrat
Guest Lecture on “Recent Development in Cosmetics” 2013-14	Dr. Mrs. Sheela B. Kulkarni,	HOD, Dept. of Cosmetic Technology, L.A.D., College, Nagpur
Seminar on Application of Chemical Engineering in Cosmetic Technology, 2014-15	Mr. Mangesh Waghmare	Priyadarshani Institute of Engineering & Technology, Nagpur.
Workshop on Skin Awareness and Detection Camp, 2015-16	Dr. Rupa Aditya,	Dermatologist, Nagpur
Guest lecture on ‘Motivational Aspects of Cosmetic Technology’ 2016-17	Dr. Prabodh Halde,	Manager, Marico India Pvt. Ltd.
<b>Department of Management</b>		
Student Interaction Program	Dr. Vinayak Deshpande,	Ex. Vice Chancellor RTM Nagpur University, Nagpur
Guest Lecture on Why MBA? Industry Expectations From MBA’s, Skill set required for a successful management career Speaker	Dr. Yogesh Deshpande	Humanities Dept. VNIT, Nagpur
Role of Aptitude in Management on dated 9 <sup>th</sup> Feb 2013	Mr. Milind Apte	Career counsellor and motivational speaker
Seminar on Banking on dated 23 <sup>rd</sup> Feb 2013	Mr. Rishi Chaurasiya	Office Management, Vikalp team, Mumbai
Seminar on Cyber	Dr. Ronald De’costa	Director IQSS





Security on dated 15 <sup>th</sup> Mar 2013		
SEBI Sponsored Seminar on Financial Education on dated 9 <sup>th</sup> April 2013	Prof. Kanchan Naidu	Associate professor, Ramdeobab College of Engg and mgmt.
Seminar on Presentation skills on dated 21 <sup>st</sup> Sept 2013	Mr. Prashant Joshi	Director, Mind Bloom Tech., Nagpur
Seminar on Self Analysis on dated 27 <sup>th</sup> Sept 2013	Mr. Surendra Gole	Principal, NIT college of Engg, Nagpur
BSE Sponsored seminar on MSME in association with WRC-ICSI (Institute of Company Secretary) on dated 18 <sup>th</sup> Oct 2013	Mr. Vijay Krushnan	Ex-General Manager Punjab National Bank
SEBI sponsored Seminar on Financial Education on dated 22 <sup>nd</sup> Feb 2014	Mr. Vijay Asrani	Financial Consultant SEBI.
“English Made Easy” on dated 1 <sup>st</sup> Mar 2014	C.R Choudhary	English Language Trainer
Expectation Management and how to prepare for getting a good Placements. on dated 6 <sup>th</sup> Mar 2014	Mr. Rajendra Chandorkar	English Language Trainer
Seminar on Goal setting on dated 13 <sup>th</sup> Sept 2014	Mr. Ashish Sharma	Personality development trainer
Seminar on Goal Setting on dated 13 <sup>th</sup> Mar 2015	Dr. Nitin Vighne	Director, VMV institute of Management Nagpur
Seminar on Budget Analysis-2015 on dated 14 <sup>th</sup> Mar 2015	Mr. Rishi Chaurasiya	Financial Consultant and trainer
Why MBA? Industry Expectations From MBA's, Skill set required for a successful management career Speaker on dated 6 <sup>th</sup> Aug 2016	Dr. Yogesh Deshpande	Humanities Dept. VNIT, Nagpur
Improving English Speaking & Writing	Mr. Siddharth Azmi	Soft Skill trainer



Skills on dated 11 <sup>th</sup> April 2015		
Economic aspects of Budget on dated 11 <sup>th</sup> Mar 2016	Dr. Sujit Metre	Professor, Dr. Ambedkar Inst. Of Mgmt studies and research
<b>Department of Library Science and Information</b>		
UGC sponsored National Conference On Modern Management Techniques For Libraries In IT Era , Held on 10 <sup>th</sup> July 2013	Dr. Rajendra Kumbhar	Prof.DLIS, University Of Pune
	Dr. R.N. Deshpande	Librarian , VNIT Nagpur
	Prof. Dhavle	Ex Librarian, S B City College Nagpur
	Dr. Veena Prakash	Sr Information Scientist RTM Nagpur University Library
<b>Department of Physics</b>		
A National Conference on “Current development in NanoScience: Challenges and Opportunities” on 14September 2013 Organised by Department of Physics	Dr. Dinesh Amalnerkar,	Director, CMET, PUNE
	Dr. S. Shrinath	Central University Department of Physics, ,Hyderabad
	Prof. S. S. Umare	VNIT. Dept of Chemistry, Nagpur
	Dr. Manish Shinde	CMET, PUNE

**3.7.5. How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated**

The college has established linkages for curriculum development

The college has a profound interest in research activities, industrial trainings, on-site schooling, students’ placements, for the overall development of staff and students. To facilitate these, the management and administration of the college encourages the departments and staff to exercise the plan for their activities and identify the potential institutes / industries with which collaborative work can be carried out to meet up the goal.

Once such institutes / industries are identified, college takes the initiatives to establish the linkages. Some of these linkages result in formal MoUs whereas



others benefit in informal way for the collaborative programs. IQAC takes the initiatives to realize the MoUs/ collaborations.

Benefits in the form of exposure to National level bodies gives deeper insight to the students and teachers regarding various issues. It also gives them a first hand experience of overall functioning of these reputed institutes and organizations.

Details of the institutes/organizations/industries is as given below:-

- Linkage with and **Membership of Asia Pacific Quality Network (APQN)**
- Linkage with **Central Institute of Cotton Research (CICR)** for all Life Science
- Linkage with **Society for Promotion of Material Science.**
- Linkage with **National Chemical Laboratory.**
- Linkage with **VNIT Nagpur.**
- Indian Physics Association
- Vidarbha Physics Teacher's Association.
- Nature Science (Club's) Society.
- Luminescence society of India
- Indian Association of Solid State Chemists and Allied Scientists – Jammu
- Chemical Research Society of India (CRSI).
- Asian Polymer Association New Delhi
- Global Earth Society for Environment Energy and Development, Bhopal
- Indian Council of Chemist, Agra
- Instrumentation Society of India
- International cotton genome initiative (ICGI).
- All India Commerce Association
- Shakespearean Society of India
- Vidharbha Sahitya Sangha , NagpurVidharbha Sanshodhan Mandal , Nagpur.
- Marathi Pradhyapak Parishad RTM Nagpur University, Nagpur
- MOU with Grampanchayat Wabgaon
- Economical Association of vidharbha
- The Indian Economics Association



The details of institutes/organizations/industries with whom MoUs have been signed are as given below:-

- **Collaboration with University of Huddersfield (UK) for various academic and research oriented activities.**
- Collaboration with Institute of Chartered Accountants of India (ICAI)
- Collaboration with IIM Kolkatta (Carpedium) in developing college as Zonal Training Centre.
- Collaboration with Jaycees for various social and outreach activities.
- Collaboration for environmental awareness with Green Vigil.
- Collaboration with Big Bazaar.
- Collaboration with Nutracare Pharmaceuticals
- Collaboration with Pulse System for the department of Computer Science.
- Collaboration with Master Software for the department of Computer Science.
- Collaboration with Globus for retail management.
- Collaboration with VIVIMED Lab., for department of Cosmetic Technology.
- Collaboration with Unique India Automative pvt. Ltd
- Collaboration with Hotel Centre Point for the department of MBA.
- Collaboration with Jaika Motors for Vocational Course.



### **3.7.6. Detail on the systemic efforts of the Institution in planning, establishing and implementing the initiatives of the linkages/collaborations.**

Kamla Nehru Mahavidyalaya organizes interaction in between academicians, scientist, expert from industries and students. College provides free platform to student to discuss their queries with experienced persons. Through organization of visits and industrial tour with collaborative agency college tries to fulfill the needs of our students.



# **Criterion IV:**

# **INFRASTRUCTURE AND**

# **LEARNING RESOURCES**



## CRITERION IV:

### INFRASTRUCTURE AND LEARNING RESOURCES

#### 4.1 Physical Facilities

Kamla Nehru Mahavidyalaya, Nagpur is known for good quality education as well as for its excellent performance in curricular, co-curricular and extracurricular activities for which the institution provides the necessary facilities in the form of an up-to-date infrastructure. The College is situated in the centre of the city and easily accessible with public transport. The infrastructure of the College is adequate to meet the requirement of its various stake holders.

#### **4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?**

The Policy of the college regarding infrastructure is consistent with the needs that arise as a result of academic development. The policy is as follows:

- To meet the need of upgrading/ creating infrastructure to support world class quality education and promote good teaching-learning environment.
- Allocating maximum resources for infrastructure development.
- Optimum utilization of resources to carry out curricular, co-curricular, extra-curricular and research activities.
- Fund-raising from alumni and other resources like government funding agencies under various schemes.
- At the end of every academic year, the members of the college Management review the need regarding infrastructure, which are discussed in the IQAC, L.M.C. meetings and then are forwarded to the concerned authority for further action. A resolution to that effect is passed; estimates are invited and then approved by the management.
- Some funds are made available from the UGC grants the college receives.



#### 4.1.2 Detail the facilities available for

##### a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

The college campus has sufficient space for all academic, administrative, co-curricular and extra-curricular activities. New facilities have been created and the old ones have been renovated fully.

- The college has a sufficient number of classrooms (36) which are very well ventilated with spacious seating arrangements. In many of these classrooms, conventional as well as advanced teaching aids can be used. .
- All science departments have separate laboratories for academic programmes and one Central Higher Learning Research Centre for research programmes. This centre provides Special research facilities which have high end research equipment like Spectrophotoflurometer, Thermo Luminescence Meter, Infrared Spectroscopy and UV-visible Spectrophotometer.
- Laboratories for research in Animal Cell Culture and Plant Tissue Culture are housed in the Department of Biotechnology.
- Physics, Chemistry, Computer Science and electronics laboratories are ICT supported.
- Other teaching-learning facilities include Language Laboratory, Computer laboratories and three ICT based classrooms.
- There is 01 seminar hall and 01 auditorium with audio-visual aids, marked for curricular activities such as Seminar, Debate and Conference.
- Almost all the departments have access to computing facility.
- Central library is accessible to all departments.
- **Seminar Hall:** 01 seminar halls with a LCD Projector and Laptop having latest configuration, with Internet connection to organize seminars, lectures and other academic activities and administrative meetings.
- **Conference Room:** Institute has 01 conference room (Board Room) with AC and has seating capacity of 20 persons where internet



and multi-media facilities like LCD Projector and Laptop are available.

### Learning Resources

<b>Class Rooms-</b>	<b>36</b>	<b>Laboratories-</b>	<b>22</b>
Smart Class Rooms-	<b>03</b>	• <b>Science -</b>	<b>19</b>
		Zoology -	01
<b>ICT learning</b>		Botany -	01
Computers -	<b>343</b>	Microbiology –	01
Smart board in laboratories-	<b>09</b>	Biotechnology-	01
Audio players-	<b>02</b>	Electronics-	01
Multimedia Projectors-	<b>11</b>	Chemistry -	03
Internet Server-	<b>07</b>	Physics -	02
Overhead projectors-	<b>04</b>	Biochemistry -	01
		Research Lab -	01
Generators –(125KVA)	<b>01</b>	Computer Lab –	04
		Cosmetic Technology-	01
<b>Library</b>		Env. Sci-	01
Library a Learning Resources		• <b>Arts -</b>	<b>02</b>
Library has adequate books		Home economics-	01
Library has ICT facility		Language Lab-	01
Departmental Libraries are functional			
E-Library with INFLIBNET		• <b>Commerce -</b>	<b>01</b>
M-OPAC		<b>Research</b>	
		College is research centre in <b>06</b> subjects and <b>23</b> research scholars are enrolled at the centre	

- b) **Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, public speaking, communication skills development, yoga, health and hygiene etc.**

College has played a proactive role and supportive role in grooming students. Specific spaces have been earmarked for extra-curricular activities and made available to students.

- State-of-the-art sports facilities, sufficient material to facilitate sports activities [cricket, football, badminton, hockey, volleyball, basketball, ball badminton, handball, throw ball, softball, baseball, table tennis, gymnastics, athletics, kabaddi, kho-kho, chess etc.]
- Well-equipped gymnasium which provides all facilities.
- Badminton and basketball courts are inside the premises. For cricket and football, the ground of Nagpur Shikshan Mandal is used.





- Expert coaching in specialized games and sports is available.
- Health Care Centre to provide first aids of students and staff.
- Home Gym provides facilities necessary for general fitness exercises.
- Equipment: Eight station multi gym, adjustable bench, dumbbell stand, twister, incline and decline bench press, incline leg press, flat bench press, hyperextension, etc.



- Sports equipment has been added; venture and combat sports have been propagated and welcomed by students enthusiastically. Facilities in the gymnasium have been upgraded.

- Auditoria

	Seating Capacity	Dimensions
Seminar Hall	200	<b>150 sq.mt</b>
Auditorium	500	<b>300 sq.mt</b>
Open Air Stage (Used For Annual Social Gathering ‘Shardostava’)	1500	<b>750 sq.mt</b>

- **Residential facility for students:** College provides residential facility for Girl Students. There are Two hostels with total student intake capacity of 90.
  1. **Kamla Nehru Girls’ Hostel** – Has 20 rooms and the capacity for 50 girls.
  2. **Priyadarshini Girls’ Hostel** – Has 9 rooms and can accommodate 40 girls.



- **Spaces for special units:** Separate rooms have been provided for:
  - ❖ **NSS** - College NSS wing comprising of **100** volunteers
  - ❖ **NCC** - A separate NCC office with a store room. College NCC wing comprising of **54** cadets.
- **Carrier Guidance Cell** comprises of: Carrier Counselling Cell, Placement Cell, Skill Development Cell, Personality Development Cell.
- **Grievance Redressal Cell:** Grievance Redresses Cell deals with the grievances expressed by students.
- **Woman Development Cell:** Undertakes activities focussed at welfare and development of students of the College. Undertakes extension activity related to women.
- **Health Care Facility on campus:** Available in the College to provide first aid and to take care of minor health complaints if need arises.
- **Health Care Facility off campus:** Available in both the Hostels to provide first aid and to take care of minor health complaints if need arises.
- **Canteen:** College provides canteen facility to the student which is run by a private contractor. A variety of refreshments and meals are available in the canteen. The canteen is open from 7:00 AM to 5:30 PM on all working days.
- **Parking:** A separate parking area /cycle stand for students and staffs is provided.
- **Rain water Harvesting:** Rain water harvesting technique has been introduced in the College.
- **Available Water Supply**
  - There is one well in the College for miscellaneous uses.
  - Drinking water Supply from Nagpur Municipal Corporation.
  - 3 water purifiers have been installed in the College.

**4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).**

Major steps taken for the infrastructure to be in line with the academic growth are:

- The institution not only procures but ensures proper maintenance of the



infrastructure at frequent intervals.

- Annual Maintenance Contract (AMC) for the upkeep and maintenance of Computers, Projectors, Air Conditioners and other machinery items is in place
  - Resident hardware Technician look after the hardware, software and network infrastructure.
  - Fire extinguishers are installed on every floor.
  - The campus is equipped with CCTV as a security measure on the premises.
  - High end laboratory instruments are procured to fulfil the demands of the changing syllabus and to carry out quality research.
  - Special WC/Wash Room for physically disabled on the Ground Floor.
  - Kamla Nehru Mahavidyalaya is a Multy-faculty Undergraduate and Post graduate college (Arts, Science and Commerce). The total number of students in the college (Undergraduate and Post graduate college) is more than 6000. Science laboratories are made available for practical with different time slots for undergraduate and post graduate students. There is separate research laboratory, which is fully utilized by research scholars.
  - In view of the various academic programmes/courses running simultaneously, the infrastructure (classrooms and laboratories) is utilized throughout the day from 6.45 am to 4.30 pm.
- ❖ **Future Plans....** Based on grants available now plans are in place to equip the laboratory with more sophisticated instruments and researchers can actively involved in consultancy work and collaborations.

### Annexure VI - Master Plan

❖ **Amount spent in the last four years**

To keep pace with increasing needs and requirements, additional infrastructure has been added. In the last five years following infrastructural development has taken place

**2012-13**

Sr. No.	Particulars	Amount spent (Rs.)
1	Library Book & Journals	13,70,912.00
2	Furniture & Fixture	6,01,108.00
3	Fan	1,03,000.00
4	Computer	63,76,487.00
5	Computer Lab(Work Station)	6,47,800.00
6	Electric Equipment	36,414.00
7	Air Conditioner	3,30,000.00



8	Barcode Laser Scanner	9,400.00	
9	Telephone(Intercom)	12,780.00	
10	Laboratory Equipments	14,10,535.00	
11	Games & Sports Material	5,00,018.00	
12	Submersible Water Pump	23,782.00	
13	Telephone Equipment	3,000.00	
14	Cubical Meter	67,958.00	
15	Electrical Tube Light	11,750.00	
16	Cooler	4,500.00	
17	Etnl Language Lab	3,00,000.00	
18	Educational Software	4,00,000.00	
19	Tft And Printers	7,32,700.00	
20	Lcd Projector	50,000.00	
21	Buildind And Construction	Well	2,40,000.00
		MCA &MBA BUILDING	1,48,83,622.00
		GUARD CABIN (Hostel)	25,200.00
<b>Total</b>		<b>2,81,40,966.00</b>	

## 2013-14

Sr. No.	Particular	Amount spent (Rs.)	
1	Library Book & Journals	3,75,386.00	
2	Furniture & Fixture	7,74,172.00	
3	Computer	7,05,710.00	
4	Air Conditioner	2,45,632.00	
5	Laboratory Equipments	38,31,338.00	
6	Games & Sports Material	67,095.00	
7	Office Equipment	3,500.00	
8	Biometric Time Attendance System	10,800.00	
9	Water Cooler	52,000.00	
10	Water Purifier	16,875.00	
11	Buildind And Construction	Mca & Mba Building	93,91,203.00
		BUILDING	3,92,820.00
12	K.N.M. Girls Hostel	Furniture	13,294.00
<b>Total</b>		<b>1,58,79,825.00</b>	

## 2014-15

Sr. No.	Particular	Amount spent (Rs.)
1	Library Book & Journals	5,55,312.00
2	Furniture & Fixture	23,65,785.00
3	Computer	28,53,295.00
4	Computer Software	42,000.00
5	Electric Equipment	8,150.00
6	Air Conditioner	6,12,785.00
7	Laboratory Equipments	10,20,082.00
8	Games & Sports Material	1,30,833.00
9	Printer	6,950.00



10	Xerox Machine	63,000.00	
11	Educational Software	2,91,000.00	
12	Buildind And Construction	Mca & Mba Building	3,85,600.00
		K.N.M HALL PARTITION	1,04,598.00
13	K.N.M. Girls Hostel	Furniture	14,889.00
		SUBMERSIBLE WATER PUMP	7,917.00
<b>TOTAL</b>		<b>84,62,196.00</b>	

## 2015-16

Sr. No.	Particular	Amount Spent (Rs.)
1	Library Book & Journals	7,72,480.00
2	Furniture & Fixture	5,76,988.00
3	Fan	5,482.00
4	Computer	66,790.00
5	Electric Equipment	5,275.00
6	Air Conditioner	1,03,725.00
7	Laboratory Equipments	5,40,444.00
8	Currency Counting Machine	13,500.00
9	Printer	1,36,160.00
10	Submersible Water Pump	19,174.00
11	Cctv	3,25,197.00
12	Buildind And Construction	<i>MCA &amp; MBA BUILDING</i> 47,22,686.00
13	K.N.M. Girls Hostel	<i>FURNITURE</i> 4,52,510.00
14	Priyadarshini Girls Hostel	<i>FURNITURE</i> 1,22,879.00
		<i>WATER PURIFIER</i> 4,540.00
<b>TOTAL</b>		<b>78,67,830.00</b>

**Total amount spent during April-2012 TO April-2016 Rs. 6,03,50,817.00/-**

#### 4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The Library has recently started M-OPAC service for all students through which students with disabilities can access books on their mobile phone instead of personal visit to library, which is at 2<sup>nd</sup> floor of main building. The institution is planning to install lift in both the buildings in order to help students with physical disabilities.

A special wash room (Two washrooms are available on ground floor) & ramp facilities have been provided in both buildings.



**4.1.5 Give details on the residential facility and various provisions available within them: Hostel Facility, Recreational facilities, gymnasium, yoga centre, etc. Computer facility including access to internet in hostel, facilities for medical emergencies, Library facility in the hostels, Internet and Wi-Fi facility, Recreational facility-common room with audio-visual equipments, Available residential facility for the staff and occupancy, constant supply of safe drinking water and Security.**

College provides residential facility for Girl Students. There are Two hostels with total student intake capacity of 90.

1. **Kamla Nehru Girls' Hostel** – Has 20 rooms and the capacity for 50 girls.
2. **Priyadarshini Girls' Hostel** – Has 9 rooms and can accommodate 40 girls.

There is a visiting doctor at the girls' hostel, which has basic medical facilities. Library facility, television sets, tea vending machines etc., are available at the girls' hostel.

➤ **Dimensions of rooms**

Sr. No.	Name of Girl's Hostel	Type	No. Of Rooms	Dimension in sq. m.(each room)
1	<b>Kamla Nehru Girls' Hostel</b>	Double Bed	10 rooms	<u>13.59</u>
		Triple Bed	10 rooms	<u>22.29</u>
2	<b>Priyadarshini Girls' Hostel</b>	Four Bed	06 rooms	<u>16.78</u>
		Five Bed	03 rooms	<u>34.00</u>

➤ **Details of Hostel facility:**

Facility	Kamla Nehru Girls' Hostel	Priyadarshini Girls' Hostel
Total number of rooms	20	09
Total capacity	50	40
Bathrooms	20	09
Toilets	20	09
Dining hall	01	01
T.V rooms	01	01
Solar Panels	01	02
Hot water capacity	1500 litres	500 litres each
RO filter	01	01
Water cooler	01	01
Refrigerator	01	01
Mess (Kitchen)	01	01
Telephone	01	01
Warden room	01	01



Store room	01	01
Reading room	01	01
Watchman	02	02
Parking	25 vehicles	15 vehicles
Garden	01	-
Water	Nagpur Municipal Corporation	Nagpur Municipal Corporation
Well	01	01
Cooler	10	09

- **Recreational facilities, gymnasium, yoga centre, etc.**

There is a “Health Centre” for girls’ hostel for medical consultation. Television sets are installed in both the hostels.

- **Available residential facility for the staff and occupancy**

Residential quarters are not provided to the teaching and non teaching staff of the college.

- **Constant supply of safe drinking water**

There is 24 hr water supply. Water is supplied by Nagpur Municipal Corporation. In addition to this, there is 01 well which is used as and when required.

- **Security**

02 security personnel have been employed in each hostel. There is a separate ‘Rector Office’ with support staff comprising of 01 Hostel Supervisor, 02 Security Guards and 12 Student Superintendents.

- **House keeping**

There are 02 people for maintaining the hostels- i.e. upkeep and cleanliness, college campus upkeep and wash room cleaning outsourced with a private firm

#### 4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

There are two types of health care facilities. First category includes health awareness programmes, which are conducted regularly especially for girl students. Medical check up such as ‘bone density check up camp’ for all students was conducted on 14/12/2016. On the occasion of Birth Anniversary of Late Shri. Govindraoji Wanjari, founder president of Amar Sewa Mandal, our college organize a Blood Donation Camp on 10<sup>th</sup> August every year. The college has a “Health Centre” located at the both girls’ hostels as well as in the college campus. The health centre is attended by a visiting doctor on regular basis. The second category includes tie up of college



with multispecialty hospitals, viz., Wanjari Hospital, which is in close vicinity of the college. Their services are available on priority to the staff and students of the college.

**4.1.7 Give details of the Common Facilities available on the Campus Spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.**

The college has separate spaces for various activities on the campus. “Chanakya Hall”, “Conference Hall” and Open to Air Stage are available for extracurricular activities. There is also a Ladies’ Common Room, which has been renovated recently. Spaces are available for units like IQAC, Grievance Redressal unit, Women’s Cell, Counselling and Career Guidance and Placement Unit.

1	<b>Internal Quality Assurance Cell</b> A separate office for IQAC, area is. It has basic furniture such as cupboards, conference table, computer tables, chairs and book case. ICT facilities include 02 computers with net connectivity, 01 printers and 01 Scanner.
2	<b>Women’s Cell</b> The college has 01 Women’s Cell offices with Tables, chairs and notice board is provided.
3	<b>Counseling and Career Guidance</b> The college has Counseling and Career Guidance offices with Tables, chairs and notice board is provided.
4	<b>Placement Unit:</b> New Building Second floor.
5	<b>Health Centre</b>
6	<b>Canteen:</b> There is 01 canteens measuring. The canteen has sitting arrangement for staff and students. There is a kitchen and serving counter.
7	<b>Recreational Spaces</b> <ul style="list-style-type: none"> <li>• There is a Conference Hall located at first floor of the old building, measuring <b>300</b> sq.mt with seating capacity <b>500</b> , which is used for cultural programmes, exhibitions, poster presentation and conferences.</li> <li>• Open Air Theatre measuring <b>750</b> sq.mt, located on the campus, with seating capacity 1500, which is used for ‘Shardostava- annual cultural event’, flag hosting ceremony of independence day and republic day, open forums and student related activities.</li> <li>• A “Chanakya Hall” located at 2<sup>nd</sup> floor, new building measuring <b>150</b> sq.mt., with seating capacity <b>200</b>, which is used for conference, Seminar, Debate competition etc.</li> </ul>
8	<b>NCC:</b> The college has 01 NCC offices with Tables, chairs and notice board is provided.
9	<b>NSS:</b> There is a separate space for NSS unit. There is a table, chairs, <b>notice board</b> , cupboard





10	<b>Grievance Redressal unit</b>
11	<b>Safe drinking water facility</b> <ul style="list-style-type: none"> <li>• There is one well in the College for miscellaneous uses.</li> <li>• Drinking water Supply from Nagpur Municipal Corporation.</li> </ul> 3 water purifiers have been installed in the College.

## 4.2 Library as a Learning Resource

### 4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

Yes, the library has a Library Advisory Committee. It comprises of the Principal, Six senior members from faculty, librarian and two student members. Meetings are held periodically, the agenda for which is prepared by the librarian. Matters of importance like factors affecting the growth of the library are discussed. Students in the committee give innovative ideas for its development and suggest solutions for problems.

Significant initiatives taken to make the library user friendly are:

- Librarian selects student volunteers for various activities.
- Regular orientations are conducted on “How to use library and its services”.
- Provision of the extra library card to facilitate issue of extra book, periodical, CD - DVDs received with a book, social documentary etc.

The composition of the committee is as follows:

1	Dr. A. K. Shende	<i>Principal and Chairman</i>
2	Dr. P. B. Dahikar	<i>Faculty of Science</i>
3	Dr. Vaijayanti Peshawe	<i>Faculty of Arts</i>
4	Mr. A. R. Bhaik	<i>Faculty of Commerce</i>
5	Dr. P. K. Butey	<i>Member: MCA Department</i>
6	Mr. N. D. Srigiriwar	<i>Member: MBA Department</i>
7	Dr. A. I. Kamble	<i>Programme Officer, NSS</i>
8	Miss. Utkarsha Gaikwad	<i>Student Member</i>
9	Mr. Dnyaneshwar Kashiwar	<i>Student Member</i>
10	Mrs. S. R. Inamdar	<i>Librarian and Member Secretary</i>

Significant initiatives implemented by the committee are as follows:

- Generation of data on library holdings in terms of books, journals and other learning materials.



- Implementation of Online public access Catalogue or any other such type of system for routine processes.
- Subscription and Purchase of e-resources.
- Development of electronic resources management package for e-journals.
- Establishment of specialized services for manuscripts, reference reprography ILL (Inter Library Loan Service) information deployment and notification (Information Deployment and Notification), download, printing, reading list/bibliography completion, In-house / remote access to e-resources, user orientation and awareness, assistance in searching databases and INFLIBNET / IUC facilities.
- Meeting the computational needs of students and establishment of 01 computational centres with net connectivity (10 computers).
- Organize literacy training programmes for stakeholders.
- Complete bar coding of departmental libraries.
- 03 computers for database search for students.

**4.2.2 Provide details of the following: Total area of the library (in Sq. Mts.); Total seating capacity; Working hours (on working days, on holidays, before examination days, during examination days, during vacation) and Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)**

The details of Library are as follows:

1	Total area of the library (in Sq. Mts.)	576.277 sq.mt.
2	Total seating capacity	200
3	Working hours (on working days, on holidays, before examination days, during examination days, during vacation)	8.00 am to 5.00 pm (on all working days) <ul style="list-style-type: none"> <li>• 8.00 am to 5.00 pm (reading hall on all working days)</li> <li>• 8.00 am to 8.00 pm (during examination days)</li> </ul>
4	Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)	<ul style="list-style-type: none"> <li>• Individual Reading Carrels-10 pairs of tables and chairs.</li> <li>• Lounge Area for browsing and relaxing- 8 large cubicles with capacity of 4 persons</li> </ul>



		<p>each.</p> <ul style="list-style-type: none"> <li>IT zone for accessing e-resources two stand alone facilities with 02 computers (net connectivity).</li> </ul>
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- Apart from the Central Library, there are individual departmental libraries. The details of departmental Libraries is as under

Sr. No.	Name of the Department	No. of books
1.	Physics	234
2.	Chemistry	174
3.	Botany	95
4.	Zoology	74
5.	Cosmetic	35
6.	Electronics	202
7.	Biochemistry	30
8.	Biotechnology	30
9.	Environmental Science	50
10.	Microbiology	14
11.	Computer Science	70
12.	Mathematics	21
13.	Political Science	10
14.	Economics	35
15.	Sociology	20
16.	English	80
17.	Marathi	50
18.	History	30
19.	Home Economics	80
20.	Commerce	80
21.	Music	15



**4.2.3. How does the library ensure purchase and use of current titles, print and e-journals other reading materials? Specify the amount spent on procuring new books, journals and e- resources-s during the last four years.**

Requisitions are invited from various heads of department (Arts, Commerce and Science) for purchase of new books/ reference books. These requisitions are passed to the Library Advisory Committee and discussed and then approved for purchase. Apart from this, book suppliers/ publishers visit the library and departments with the latest titles. These titles are approved by the teachers and Head of the department and then forwarded to the librarian. The “Library Advisory Committee” sanctions the list of books /reading material for purchase. Purchase orders are then issued to book sellers/ agencies and new titles are procured. The college library is also a member o N-LIST-of INFFLIBNET. The membership is renewed annually and this is a major resource for e--journals. The amount spent on books/ reference books and journals for the last Four years is as follows:

<b>2012-13</b>	Books .Ref. Books Journals	Rs. <u>6,67,451</u> Rs. <u>73,387</u>
<b>2013-14</b>	Books .Ref. Books Journals	Rs. <u>2,82,627</u> Rs. <u>40,035</u>
<b>2014-15</b>	Books .Ref. Books Journals	Rs. <u>5,12,612</u> Rs. <u>95,634</u>
<b>2015-16</b>	Books .Ref. Books Journals	Rs. <u>7,83,452</u> Rs. <u>1,22,326</u>

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection? OPAC, Electronic Resource Management package for e-journals, Federated searching tools to search articles in multiple databases, Library Website, In-house/remote access to e-publications, Library automation, Total number of computers for public access, Total numbers of printers for public access, Internet band width/ speed, Institutional Repository, Content management system for e-learning and Participation in Resource sharing networks/consortia (like INFLIBNET)**

The details are as follows:

1	OPAC	<ul style="list-style-type: none"> <li>• On Line Public Access Catalogue available for users on College Intranet (Local Server).</li> <li>• 01 computer is made available at the</li> </ul>
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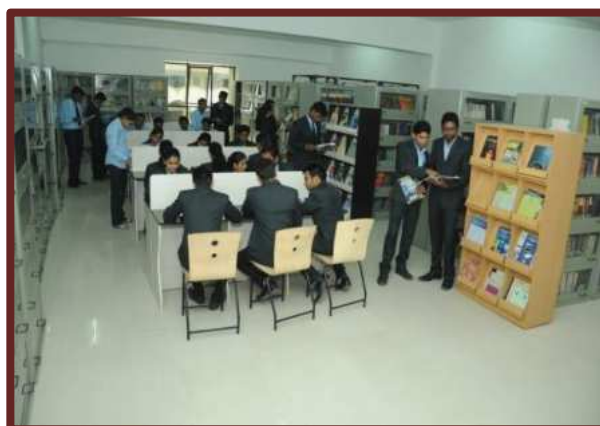
		entrance of the library for this purpose.
2	Electronic Resource Management package for e-journals	• Available through N-LIST INFLIBNET
3	Federated searching tools to search articles in multiple databases	• OPAC
4	Library Website	• Dedicated web page on the college website
5	In-house/remote access to e-publications	• Available through N-LIST INFLIBNET
6	Library Automation	• Services fully automated (Bar Code)
7	Total number of computers for public access	• 03
8	Total numbers of Xerox machines for public access	• 01
9	Internet band width/ speed	• 4Mbps
10	Institutional Repository	• On College Intranet (Server)
11	Content management system for e-learning	-----
12	Participation in Resource sharing networks/consortia (like NLIST, INFLIBNET)	• N-LIST and INFLIBNET

**4.2.5 Provide details on the following items: Average number of walk-ins, Average number of books issued/returned, Ratio of library books to students enrolled, Average number of books added during last three years, Average number of login to opac (OPAC), Average number of login to e-resources, Average number of eresources downloaded/printed, Number of information literacy trainings organized and Details of “weeding out” of books and other materials**

1	Average number of walk-ins per day	• <u>378</u> (during working days) • <u>412</u> (during examination days)
2	Average number of books issued/returned per day	• <u>200</u> (during working days) • <u>300</u> (during examination days)
3	Ratio of library books to students enrolled	• <u>7</u> books approx.
4	Average number of books added during last three years	• <u>4288</u>
5	Average number of login to OPAC per day	• <u>54</u>
6	Average number of login to eresources	• <u>61</u>
7	Average number of e-resources downloaded/printed	• <u>114</u>
8	Number of information literacy trainings organized	• <u>01</u>
9	Books write off	• Listing of books of old syllabi books approved by concerned



		department and Library Advisory committee and discarded. (Total 1412 books)
--	--	---



**4.2.6 Give details of the specialized services provided by the library-Manuscripts, Reference, Reprography, ILL (Inter Library Loan Service), Information deployment and notification (Information Deployment and Notification), Download, Printing, Reading list/ Bibliography compilation, In-house/remote access to e-resources, User Orientation and awareness, Assistance in searching Databases and INFLIBNET/IUC facilities**

1	Manuscripts	• -----
2	Reference	• <u>1425</u>
3	Reprography	• <u>50</u>
4	ILL (Inter Library Loan Service)	• <u>25</u>
5	Information deployment and notification (Information Deployment and Notification)	<ul style="list-style-type: none"> <li>• Display Board</li> <li>• Selective dissemination of information</li> <li>• Current awareness service.</li> </ul>
6	Download	• $\sqrt{\text{Facility available}}$ / • <del>Not available</del>
7	Printing	• $\sqrt{\text{Facility available}}$ / • <del>Not available</del>
8	Reading list/ Bibliography compilation	• $\sqrt{\text{Facility available}}$ / • <del>Not available</del>
9	In-house/remote access to e-resources	• Available through N-LIST INFLIBNET
10	User Orientation and awareness	<ul style="list-style-type: none"> <li>• Conducted for staff of the library with regard to basic computational skills and library software.</li> <li>• Orientation for students, during "Principal's Address"</li> <li>• Also through Notices/ display</li> </ul>



		boards/Instructions • Library staff trained at other centres like INFLIBNET.
11	Assistance in searching Databases	• Available on request for OPAC
12	INFLIBNET/IUC facilities	• Available for users

**4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.**

Support for locating library books, journals and a manuscript is provided by the library staff. Help is also rendered in searching for title(s) through OPAC system to the user. There is a separate “book issuing and return” counter. The library also provides news papers and magazines. Photocopying facility is also available. The reading room for teachers on the ground floor is also used for book exhibitions, special programmes and lectures. Any other assistance pertaining to learning resources is also provided to users. Inter-Library Loan facility is made available on request.

**4.2.8 What are the special facilities offered by the library to the visually / physically challenged persons? Give details.**

The college makes proactive efforts to bring students with blindness into the mainstream. All kinds of procedural and practical support are provided to these students by the Library Staff Members.

**4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)**

Suggestion box is available at the entrance of the library. The users put their suggestions/ recommendations in the suggestion box. The suggestions are passed onto the librarian and appropriate action is taken. Many a time, there is a request from students to make the library available for extended hours, improvement in physical infrastructure like lighting facility, fans and repairs of tables and chairs- all these are considered and duly implemented.



### 4.3 IT Infrastructure

**4.3.1. Give details on the computing facility available (hardware and software) at the institution. Number of computers with Configuration (provide actual number with exact configuration of each available system), Computer-student ratio, Stand alone facility, LAN facility, Wi- fi facility, Licensed software, Number of nodes/ computers with Internet facility, Any other**

The summary of computers, printers and scanners is as follows:

1	Total number of Computers	<b>343</b>
2	Total number of Printers	<b>32</b>
3	Total Number of Scanners	<b>09</b>
4	Number of LCD projectors	<b>11</b>



The summary of computers, printers and scanners is as follows:

#### ➤ Number of computers with Configuration

Sr. No.	Name	Processor Type	Ram	Hard Disk	Operating System	Mouse	Keyboard	Name Of Monitor/Led/Lcd
1-200	Computer No. 1to200	Core I3 2100	2 GB	500 GB	Windows 7	Wipro Evolve	Wipro Evolve	19''-TFT
201-240	Computer No. 201to240	Dual Core 2.66 GHz	512 MB	80 GB	Windows XP Proff.	HP Compaq 2280	HP Compaq 2280	17''-TFT
241-270	Computer No. 241to270	Dual Core 3 GHz	1 GB	160 GB	Windows XP Proff.	Acer	Acer	15''-TFT
271-285	Computer No. 271-285	Core I3 2 <sup>nd</sup> Gen.	2GB	500 GB	Windows 7	Wipro Evolve	Wipro Evolve	18.5''-TFT





286-335	Computer No. 286-335	Core I3 3.4 GHz 4 <sup>th</sup> Gen.	4 GB	500 GB	Windows 8 Proff.	Dell	Dell	18.5'' -TFT
336-341	Server Comp. No. 336-341	Intel Xeon-E3 1220 3.1 GHz	8 GB	500 GB	Windows Server 2003	Wipro	Wipro	18.5'' -TFT
342	Server Comp. No. 342	Intel Xeon-E3 1220 3.1 GHz	8 GB	500 GB	Windows Server 2008	IBM	IBM	18.5'' -TFT
343	Server Comp. No. 343	Intel Xeon-E3 1225 3.2 GHz	2 x 8 GB	500 GB	Windows Server 2008	Dell	Dell	18.5'' -TFT

➤ **ROUTER, SWITCH & HUB DETAILS:**

Sr. No	Material Name	No.Of Ports & Bytes	Make Name	Model Name / No.	Location
1.	Router 1	8 Port	D-Link	DIR-600M	New Building
2.	Router 2	4 Port	ZT	MAC002293BF54P	Office
3.	Router 3	4 Port	Digisol	DG-HR1400	Old Building Language Lab
4.	Switch 1	8 Port MB	Digisol	DG-FS1008D/I	Office
5.	Switch 2	8 Port MB	Digisol	DG-FS1008D/I	Central Lab New Building
6.	Switch 3	8 Port MB	Digisol	DG-FS1008D/I	Lab-IV New Building
7.	Switch 4	8 Port MB	Digisol	DG-FS1008D/I	Lab-I New Building
8.	Switch 5	16 Port MB	D-Link	DES-1016A	Lab-I New Building
9.	Switch 6	16 Port MB	D-Link	DES-1016A	Lab-I New Building
10.	Switch 7	16 Port MB	D-Link	DES-1016A	Lab-II New Building
11.	Switch 8	16 Port MB	D-Link	DES-1016A	Lab-II New Building
12.	Switch 9	16 Port MB	D-Link	DES-1016A	Lab-III New Building
13.	Switch 10	16 Port MB	D-Link	DES-1016A	Lab-III New Building
14.	Switch 11	16 Port MB	D-Link	DES-1016A	Lab-IV New Building
15.	Switch 12	16 Port MB	D-Link	DES-1016A	Lab-IV New Building
16.	Switch 13	16 Port MB	D-Link	DGS-1016D	Office
17.	Switch 14	16 Port MB	D-Link	DGS-1016D	Office
18.	Switch 15	24 Port MB	D-Link	DES-1024A	Central Lab New Building
19.	Switch 16	24 Port MB	D-Link	DES-1024A	Central Lab New Building
20.	Switch 17	24 Port MB	D-Link	DES-1024A	Central Lab New Building
21.	Switch 18	24 Port MB	D-Link	DES-1024A	Central Lab New Building
22.	Switch 19	24 Port MB	D-Link	DES-1024A	Lab, Old Building
23.	Switch 20	24 Port MB	D-Link	DES-1024A	Lab, Old Building
24.	Switch 21	24 Port MB	D-Link	DES-1024A	Lab, Old Building

➤ **Printer Details**

Sr. No.	Printer Name	Model name	Type	Model No.	Serial No.	Location
1.	Printer 1	Cannon-LBP2900B	Laser	L11121E	NAQA342372	Office- Admission
2.	Printer 2	Cannon-LBP2900B	Laser	L11121E	MHPA147949	Office- Admission
3.	Printer 3	Cannon-LBP2900B	Laser	L11121E	MQEA706238	Office- Admission
4.	Printer 4	Cannon-LBP2900B	Laser	L11121E	NAQA145443	Office
5.	Printer 5	Cannon-LBP2900B	Laser	L11121E	MBGA700657	Office
6.	Printer 6	Cannon-LBP2900B	Laser	L11121E	NAQA476567	Office
7.	Printer 7	HP-M706n	Laser	B6S02A	CNBXJ1V8HG	Office
8.	Printer 8	HP-M706n	Laser	B6S02A	CNBXJ2HFR8	Sub-Office-I, New



						building-Grnd Fl.
9.	Printer 9	HP-M706n	Laser	B6S02A	CNBXGDKL3G	Sub-Office-II, New building-First Floor
10.	Printer 10	Cannon-LBP2900B	Laser	L11121E	NAQA478722	Sub-Office-I, New building- Grnd Fl.
11.	Printer 11	Cannon-LBP2900B	Laser	L11121E	NAQA633995	Sub-Office-I, New building- Grnd Fl.
12.	Printer 12	HP-1020	Laser	BOISB0207	CNCOK05896	Sub-Office-II, New building-First Floor
13.	Printer 13	Cannon-LBP2900B	Laser	L11121E	MQEA203675	Sub-Office-II, New building-First Floor
14.	Printer 14	Cannon-LBP2900B	Laser	L11121E	MQEA385078	Sub-Office-II, New building-First Floor
15.	Printer 15	Cannon-LBP2900B	Laser	L11121E	MQEA132016	Sub-Office-II, New building-First Floor
16.	Printer 16	Cannon LBP2900B	Laser	L11121E	NQEA303629	Main Library
17.	Printer 17	HP-1020	Laser	Q5911A	CNCJL39478	MBA/MCA Library
18.	Printer 18	Cannon-LBP2900B	Laser	L11121E	NAQA572123	Office- I-CARD Printing
19.	Printer 19	Cannon-LBP2900B	Laser	L11121E	NAQA385090	MCA Coordinator
20.	Printer 20	Cannon-LBP2900B	Laser	L11121E	MQEA205026	MBA Coordinator
21.	Printer 21	Cannon-LBP2900B	Laser	L11121E	MQEA204970	MBA Comp. Lab.
22.	Printer 22	Cannon-LBP2900B	Laser	L11121E	MQEA305381	MCA Comp. Lab.
23.	Printer 23	HP-M1136MFP	Laser	CE8498	CNG7C9RJY6	Vice-Principal Cabin
24.	Printer 24	HP-1022	Laser	Q5912A	VNRJ69M0JZ	Research Lab.
25.	Printer 25	HP-P1007	Laser	CC365A	VNFX73310	Electronics Lab
26.	Printer 26					Exam Cell
27.	Printer 27	EPSON-LX-300+II	Dot Matrix	P170B	JNWX427719	Comp Lab-IV-New building
28.	Printer 28	EPSON-LX-300+II	Dot Matrix	P170B	JNWX447500	Comp Lab-II-New building
29.	Printer 29	EPSON-LX-300+II	Dot Matrix	P170B	JNWX429711	Central Lab.-New building
30.	Printer 30	EPSON-LX-300+II	Dot Matrix	P170B	JNWX435256	Central Lab.-New building
31.	Printer 31	EPSON-FX-2175	Dot Matrix	P362A	JNVY008886	Office
32.	Printer 32	EPSON-FX-2175	Dot Matrix	RY2175	JNVY017803	Main Library

### ➤ SCANNER DETAILS

Sr.No.	Scanner Name	Model name	Type	Model No.	Serial No.	Location
1.	Scanner 1	HP-200	Scan Jet	L2734A	CN4CFB1392	Office
2.	Scanner 2	HP-200	Scan Jet	L2734A	CN4CFB1396	Office
3.	Scanner 3	HP-200	Scan Jet	L2734A	CN38FA125D	Comp Lab-III-New building
4.	Scanner 4	HP-G2410	Scan Jet	GRLYB0209	CN11VT2201	Sub-Office-II, New building-First Floor
5.	Scanner 5	HP-5590	Scan Jet	L1911B	CN4APXH0MY	Sub-Office-II, New building-First Floor
6.	Scanner 6	HP-200	Scan Jet	L2734A	CN4B4B1324	Sub-Office-I, New building-Grnd Fl.



7.	Scanner 7	HP-200	Scan Jet	L2734A	CN52CB102M	Sub-Office-I, New building-Grnd Fl.
8.	Scanner 8	Astra 3600	Scan Jet	10-01301	C11003M003897	Electronics Lab.
9.	Scanner 9	Astra 5600	Scan Jet	UMAX	C11306A002386	Office

➤ **MI Interactive Boards**

Sr.No.	Location	No. Of MI Boards	Comp. Configuration
1.	Smart Class Room G1	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
2.	Smart Class Room G2	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
3.	Smart Class Room G3	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
4.	Physics Dept.	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
5.	Electronics Dept.	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
6.	Chemistry	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
7.	Biotech	1	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
8.	MBA	02	Intel (R) Core (TM) i3-4150 CPU@ 3.5 GHz. 4 GB RAM.500 GB HDD. Windows 7 Prof. Dell Mouse & Key Board. 18.5"-TFT.
	<b>Total</b>	<b>09</b>	

**LCD Projector:**

Sr.No.	Location	Make
1.	Class Room G1	01
2.	Class Room G2	01
3.	Class Room G3	01
4.	Physics Dept.	01
5.	Electronics Dept.	01
6.	Chemistry	01
7.	Biotech	01
8.	MBA	02
9.	Chanakya Hall	01
10.	Conference Hall	01
	<b>Total</b>	<b>11</b>

**II. Computer -Student ratio:**

Type of Students	Computer : Students Ratio
Students having Computer Science as a subject (343 Computers :500 Students)	<b>1:2</b>
Non Computer Students (343 Computers: 4056 Students)	<b>1:12</b>

**Licensed software:**

Sr. No.	Software Name	Product No.	Installed Location	Serial / Licence Key	No. of Users
1.	LIBMAN	Libman 11.1	Library	MSERP/032016/0074	6000
2.	TINA PCB Design Ckt making	031414	Electronics	-	110
3.	Intocad	ADCC	Electronics	SW/Sall/E/2105-12	110



4.	Microsoft windows	4HR-00400	Computer Lab	49786561	500
5.	ETNL Language Software	Handa Elect Infocom	Language Lab	-	1000
6.	Oracle	11GSTD	Computer Lab	-	500

Computer-student ratio: - **The computer-student ratio for the overall student population in the degree college is 23.**

Stand alone facility: - **Each computer on campus is a stand- alone system.**

LAN facility: **The 186 computers in Six computers labs are Connected through a LAN network.**

**The office and library are also in a separate LAN.**

Wifi facility: **Wi-fi facility is available.**

Number of nodes/ computers with Internet facility:- **256**

- The campus is connected through fibre-optic cables and STP cables for network and campus connectivity.

Any other: --

#### **4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?**

- **Internet Facility** - All computers on our campus in all computer laboratories and in the college library have internet facility. (A 4Mbps - leased line connection)
- All most departments have computers and printers. Some of them have internet connectivity. An appropriate number of LAN switches have been installed in the some departments depending on the number of users.
- A language lab is set up which is located in the ground floor, old building where 35 computer are in LAN network.
- Apart from this, two computational centers of 10 computers have been set up in Library especially for students.

A detail of the number of computers in various departments with net connectivity is as follows:

Sr. No.	Office/ Department	MIM Smart boards	Total No. of Computers	No. of Net Connected	No. Available for staff and students
1	Social Sciences (Arts)	-	02	-	02
2	Language	-	01	-	01
3	Commerce	-	03	-	03
4	Biotechnology	01	01		01
5	Chemistry	01	01		01



6	Computer Science		343	205	343
7	Electronics	01	10	01	10
8	Physics	01	02	01	02
9	IQAC		02	02	02
10	Library		07	07	07
11	MBA	02	60	60	60
	<b>TOTAL</b>	<b>6</b>	<b>432</b>	<b>276</b>	<b>432</b>

#### 4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

The college has a well established mechanism for upgrading and deploying campus IT infrastructure. The IT facilities have been upgraded in several phases during the past five years. While planning IT infrastructure, the college first assesses the need, number of students and staff and also identifies the end user. Accordingly, IT facilities are upgraded after 3/4 years. The old computers are shifted for web browsing or used for hardware practicals.

- A person is appointed for maintenance of IT infrastructure of the campus.
- At the same time, provisions are made in the budget for Annual Maintenance Contracts (AMC) for maintaining the hardware
- New IT infrastructure is added whenever a need arises in the department(s). The needs/ requirements are in terms of software up gradation, purchase and maintenance.

#### 4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

Yes, the college makes provision in the annual budget for procurement, up-gradation, maintenance and purchase of accessories. The details of provisions made are as follows:

	Computers (Rs.)	Software (Rs.)	Networking (Rs.)
2012-2013	<b>12,77,569</b>	<b>45,000</b>	<b>99,173</b>
2013-2014	<b>7,48,438</b>	---	<b>50,561</b>
2014-2015	<b>30,08,738</b>	<b>7,11,000</b>	<b>43,301</b>
2015-2016	<b>51,380</b>	---	<b>55,728</b>



#### **4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?**

The campus is networked through LAN. The college has 4 Mbps lease line for net connectivity. Three class rooms are assigned as Smart classrooms (G1, G2, G3) and are provided with MI interactive smart board and LCD Projectors.

- Resources from various websites/web-links are used by the teachers for regular teaching-learning.
- Teachers prepare their own power point presentations and course materials that are provided to the students.
- Course materials are uploaded on the college website and easily available to the students.
- The college has procured necessary licensed software especially for Language Lab, Computer Science, Electronic Science and Mathematics.
- The laboratories are available to students whenever they require. They are given freedom to use the resources and learn through e-resources.
- All most Science laboratories are equipped with computer + LCD projector system. These are used for demonstrations/explanations of practical, power point presentations and video clips.

#### **4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed access to on-line teaching –learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.**

The college has provided the necessary infrastructure in terms of computers, net connectivity, LAN facility and DLP projectors in most of the classrooms and all the science laboratories. The entire campus is networked.

- Teachers are oriented for preparing multimedia presentations and guided to make the presentations effective and learner oriented.
- Teachers have prepared their own resource material in the form of e-resources and power point presentations.
- These resources are available for the students.



- Three digital class rooms with MI interactive smart boards are fully utilized by all faculty members for lectures, seminars and tutorials.

**4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?**

The college does not avail National Knowledge Network Connectivity directly or through Rastrsant Tukadoji Maharaj Nagpur University.

#### **4.4 Maintenance of Campus Facilities**

**4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?**

The college is managed by Local Managing Committee (LMC) that oversees the utilization of available allocation of budget:

- The realization of anticipated income as well as actual expenditure is monitored.
- The self financing departments have “Finance Advisory Committee”, which looks into the requirements of departments and if it is justified, then it is forwarded to the LMC for approval and final purchase.
- Provisions in the Annual Budget for Computer procurement and Maintenance and upkeep of Campus Infrastructure.

**4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?**

The college prepares and submits financial requirements under various budget heads to our parent organization (Amar Sewa Mandal Society) every year. The Society has a “Finance Committee” to look into the financial needs of colleges/institutes. The proposed budget (includes requirements of all departments and activities of the college) is presented to the committee. The committee scrutinizes the budget and gives an approval after satisfactory explanations. The



college LMC (Local Managing Committee) plays a monitoring role on the expenditure under various budget heads.

The institution has annual maintenance contract (AMC) for the following facilities/equipments like Computing & Networking facilities, Electric appliances/units, Water purifiers, CCTVs, Projectors & Smart Boards, Air conditioners. Professional housekeeping services are availed on contract for the upkeep of washrooms. Regular audit of the Laboratory Equipments and infrastructure is carried out by the Stock Verification Committee of staff members.

- College management has appointed “Architect” for looking into issues related with up gradation/ maintenance/ repairs of the campus.
- The college has appointed a technician for maintenance of hardware and software of IT infrastructure.
- Maintenance of Generator (120 KVA each) is done through AMC
- Campus upkeep (cleaning of campus including parking areas, toilets and bathrooms) is outsourced to Enterprises.

#### **4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?**

All the instruments/equipments in the laboratories are well maintained and standard operation procedures are followed whenever used. Regular maintenance of instruments is also done through departmental funding. Before, procuring instruments, the “Internal Stock verification committee” makes a visit to the laboratory and assesses the need of procuring the instruments, and then recommends it for purchase.

- For minor instruments like pH meter, conductometer, potentiometer etc., calibrations are done every day, just before using the instrument. The process followed for calibration is as per standard methods (use of standard solutions like potassium chloride, potassium hydrogen phthalate, buffer solutions etc.,)
- For high end instruments like Spectrofluorophotometer and Thermo Luminescence Detector (TLD), FTIR (Fourier Transform Infra Red Spectrometer), and UV-Vis Spectrophotometer, the method used for calibration varies according to the instrument as per standard operating procedures (SOP).





**4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?**

- Main Circuit Breaker (MCB) and Earth Leakage Circuit Breaker (ELCB) at prominent power supply units.
- The institution has a regular inspection of various sensitive electrical equipments which ensures that these equipments have least probability of any damage due to voltage fluctuations.
- A power generator of 125 KWA of Kirloskar make has been installed in the campus and used in the period of load shading or emergency electric power cut off by MSEB.
- The college has water pipeline from Nagpur Municipal Corporation. The college has water storage tank of approximately 50,000 liters capacity in both the buildings.

**Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.**

- Our Parent organization (Amar Sewa Mandal) and the college make focused efforts towards upgrading and maintaining the infrastructure of the campus and laboratories. Several major instrumentation facilities, special facilities, office and printing facilities have been added during the last four years.



# **Criterion V:**

## **STUDENT SUPPORT AND**

### **PROGRESSION**



## CRITERION V

### STUDENT SUPPORT AND PROGRESSION

#### 5.1 Student Mentoring and Support

**5.1.1 Does the institution publish its updated prospectus / handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?**

Information about the institution is publicly available through

- a) College Prospectus
- b) College Website

The College publishes its updated prospectus annually, giving a brief profile of the College, its infrastructure, various subject combinations at UG level, PG course details, admission procedure and eligibility criteria, achievements, various scholarships, library, hostel and other facilities in the College. College has its own website [www.kamlanehrucollege.ac.in](http://www.kamlanehrucollege.ac.in) which is updated regularly and featured all the relevant information necessary for the students, such as courses offered and their fee structure, admission procedure, News and events, Notices and circulars, facilities and amenities available to students, List of Faculties with their qualifications.

**5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

➤ **Freeship**

Year	Category	Students benefitted	Amount Sanctioned
2012-13	OBC	117	90523
	SBC	10	13193
	SC	39	23423
	VJNT	13	10993
	Total	179	138132
2013-14	OBC	97	72715
	SBC	06	2902



	SC	26	15710
	VJNT	04	1452
	Total	133	92779
<b>2014-15</b>	OBC	78	55368
	SBC	11	5732
	SC	30	25040
	VJNT	34	9548
	Total	253	95688
<b>2015-16</b>	OBC	26	8954
	SBC	07	3536
	SC	12	7144
	VJNT	10	6418
	Total	55	26052

➤ **SCHOLARSHIP (GOI)**

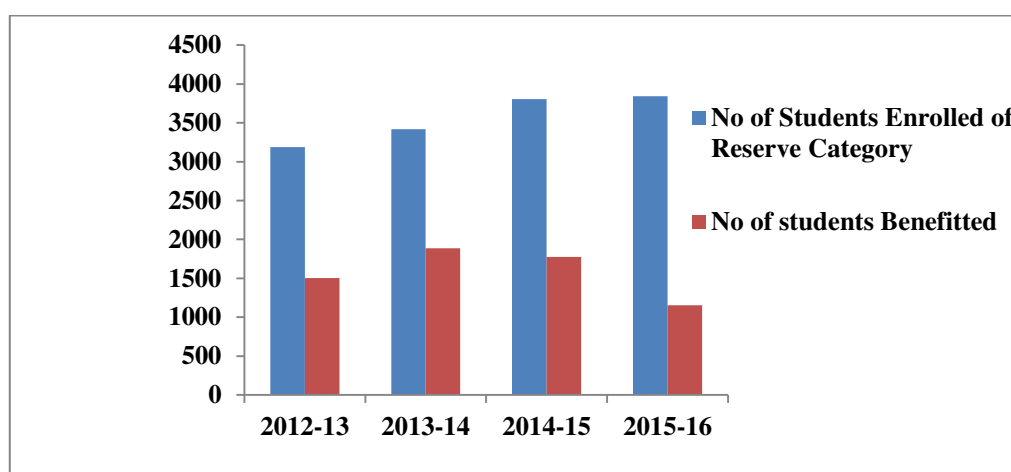
Year	Category	Students benefitted	Amount Sanctioned
<b>2012-13</b>	OBC	937	1773712
	SBC	167	287177
	SC	118	375344
	VJNT	102	182226
	Total	1324	2618459
<b>2013-14</b>	OBC	1127	2061842
	SBC	197	364099
	SC	379	1647620
	VJNT	50	64870
	Total	1753	4138431
<b>2014-15</b>	OBC	854	1760898
	SBC	192	325226
	SC	364	1530178
	VJNT	111	198434
	Total	1521	3814736
<b>2015-16</b>	OBC	841	1417027
	SBC	145	231042
	SC	*	*
	VJNT	112	207404
	Total	1098	1855473

\* Amount yet not sanctioned by the Govt.

**5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?**

Year	No of Students Enrolled of Reserve Category	No of students Benefitted	Percentage
<b>2012-13</b>	3187	1503	47.16 %
<b>2013-14</b>	3419	1886	55.16 %
<b>2014-15</b>	3806	1774	46.61 %
<b>2015-16</b>	3842	1153	30.01 %





#### 5.1.4 What are the specific support services/ facilities available for

- Students from SC/ST, OBC and economically weaker sections
- Students with physical disabilities
- Overseas students
- Students to participate in various competitions / National and International
- Medical assistance to students: health centre, health insurance etc.
- Organizing coaching classes for competitive exams
- Skill development (spoken English, computer literacy, etc.,)
- Support for “slow learners”
- Exposures of students to other institution of higher learning / corporate / business house etc.
- Publication of student magazines

Students from SC/ ST/ OBC and economically weaker section of the society get fees concession on their eligibility ground prescribed by the Govt.

Special fee concession is provided by the college management to the students of OPEN category and from economically weaker section of society. Departmental book bank facility other than central library is made available to the students. Special tutorial sessions are arranged for them by their respective departments. Remedial classes are arranged for such Students. Special training programme for



their self employment as well as entrepreneurial development are conducted from time to time by career development cell. Support to slow learners is given by taking extra classes. The faculty members of the college motivate such students and encourage to come out with their problems. Class teachers and the subject teacher take Responsibility to identify such students from each class at the beginning of the session. Academic and personal Counseling are offered by the faculty members. Emphasis is given Difficult topics are repeated in the extra classes. Every year Placement cell organizes English spoken classes, Personality Development classes to fit themselves in the corporate sector. Moreover Students from the final year are placed in the banks, firms, cooperative banks etc for the training. College publishes annual magazine and bulletin and students are encouraged to publish their ideas and manuscript.

**5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.**

As it is described earlier that placement cell organizes various training programme. In the academic Year 2012-13 Dr. Deepali Naidu has visited and she has guided the students on the scope in the corporate sectors. In the session 2013-14 Dr. Rita Sontakke, Assistant Professor, has delivered the lecture on self Employment opportunity in market. Also in 2014-15 Mr. Sanjay Raghtate CEO Oxford Academy has visited the college. He has guided the students on the personality development, communication skill, interview Techniques. In the academic session 2015-16 Mr. Kirti Agrawal C. A , President, WIRC Nagpur branch has visited the college and guided the students. In the academic session 2016-17 Dr Rajendra Chandorkar has conducted the training programme for the students as well as for the faculty members on the teaching skill, communication skills. Dr. Nilesh Bharane, DSP, Deharadun delivered a lecture on IAS preparation.

Every year Students are placed in various industries and companies.



**5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

- **Additional academic support, flexibility in examinations**
- **Special dietary requirements, sports uniform and materials**
- **Anyother**

The college encourages the students for various activities such as sports, games Quiz competitions, cultural, co-curricular, extracurricular activities. College provides additional support to such students.

- Flexibility in the internal Examinations and attendance is given.
- Sports uniform and kits are provided to them.
- Special dietary requirements are fulfilled at the time of matches.

The college has a separate sports department, cultural committee for shardotsav-a youth festival, NSS department with one Unit of 100 Volunteers, NCC with one Unit and 54 cadets. These Committee follows the policies and strategies laid down by the institution within the ambit of rules framed by various department of Maharashtra Government. College organizes Education tours for Psychological and Educational Exposure of the students. Special prizes in different activities are given to motivate the student's talent.

The extra Curricular activities involves,

- Literacy activity- Quiz, Debate, Discussion, Computer training, Elocution.
- Creative activity- poster making, Rangoli competition, Slogan Competition, Wall magazine etc
- Cultural activities- shardotsav-a youth festival, drama, dance , singing etc
- Sports activities- Indoor and outdoor games like Kabaddi, Kho-kho, volley ball, basket ball, soft ball, base ball, chess etc



**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR-NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /Stateservices, Defense, Civil Services, etc.**

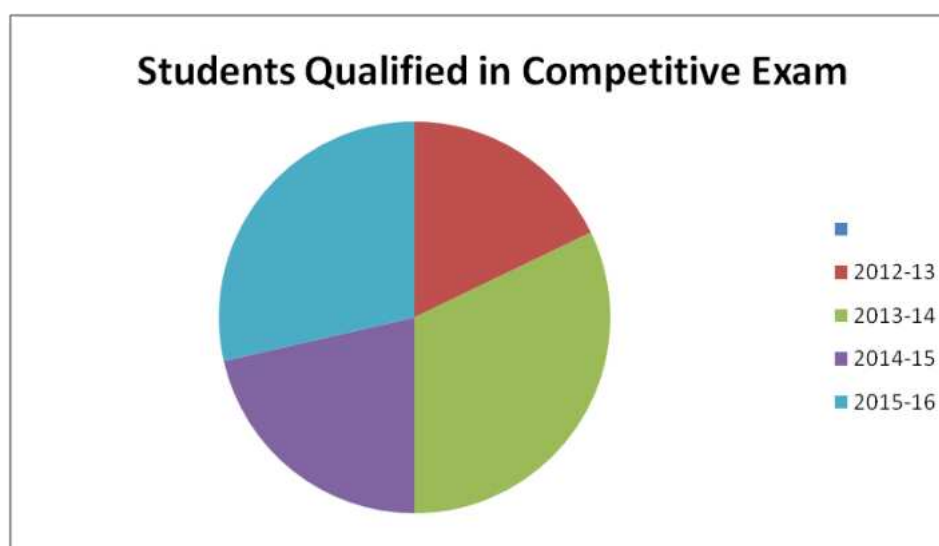
College organizes various series of guest lecture by different eminent and experts. The subject teachers also provide guidance in different competitive examinations. The details of the academic achievements are listed below. In 2012-13, 05 students, in 2013-14, 09 students, in 2014-15, 06 and in 2015-16, 08 students have qualified in various competitive examinations.

SESSION	NAME OF THE DEPARTMENT	ACHEIVEMENT	NAME OF THE STUDENT	REMARKS
2012-13	Physics	CSIR UGC NET 17/06/2012	Mr. Ashish Shastrakar	JRF
		CSIR UGC NET 23/12/2012	Mr. Mangesh Yerpude	JRF
	Electronics	NET Examination Qualified	Kishor Y. Rokade	LS
	Chemistry	CSIR- NET	Amit Kalbande	JRF
	Mathematics	CSIR- NET	Mr.Ashish A.Shastrkar	JRF
2013-14	Physics	JAM 2014	Miss. Supriya Ughade	Qualified
		CSIR - NET 23/06/2013	Miss. Pranali Tembhurne	LS
	Chemistry	GATE	Pankaj Meshram	
		CSIR NET	Pankaj Meshram	JRF
		SET	Pankaj Meshram	
		CSIR- NET	Sudhir Mhaskey	LS
		MPSC	Roshan Chauhan	
	Electronics	NET Examination Qualified	Kamlesh S. Patle	LS
Mathematics	CSIR-NET	Ms.Pranali Tembhurne	LS	
2014-15	Chemistry	CSIR –NET	Rakesh Naktode	LS
		UGC- NET	Shazia Bari	LS
	Physics	CSIR NET 2206/2014	Mr. Kamlesh Chandekar	JRF
		CSIR -NET 20/07/2015	Mr. Nitesh Koche	LS
		NET qualified	Mr. Kamlesh V.Chandekar	LS
	Commerce	UGC-NET	Pranav Lakhe	LS
2015-16	Chemistry	CSIR NET	Dhanraj Lanje	NET





		CSIR NET	Sachin Wadhai	JRF (AIR 37)
		GATE	Sachin Wadhai	
		SET	Sachin Wadhai	
	Electronics	SET Examination Qualified	Ashish K. Rewatkar Ashwin Y. Ankar	LS
		National Digital Literacy Examination - 2015 qualified (conducted by National Institute of Electronics and Information Technology NIELIT)	Shubham Shore	1 <sup>st</sup> Class.
	Mathematics	NET qualified	Mr. Rohit Patne	66 <sup>th</sup> rank



#### 5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

The college takes initiative in facilitating and providing enhancement to students. Placement cell personality development cell of the college has been putting in the best possible efforts to invite expert from different sectors. The activities for interaction with students on career related issues are given priority throughout the academic session. The college provides training to the students for developing their skills.

Students' mentoring is done, keeping in mind their special social, academic,



personel and psychological needs. Parents are also informally informed about their progress.

**5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If ‘yes’, details on services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).**

As per the eligibility condition of employers the students are selected. The Placement cell organizes mock interviews and training to prepare the students to attend on/ off campus interviews.

Career guidance cell in the college offers counseling a career and personality development. Experts are invited to guide the students or skill development in spoken English and computer literacy, Personality development programme and trainings are also conducted to improve the students such as programme on communication skill, time management. Some references are given below:

- In 2015 one month free employability training camp was organized in collaboration with Rotary club, Nagpur Branch
- One month corporate training programme was organized in collaboration with Tata Consultancies Services
- In 2016 One week soft skill training was departed by IIM Kolkata.

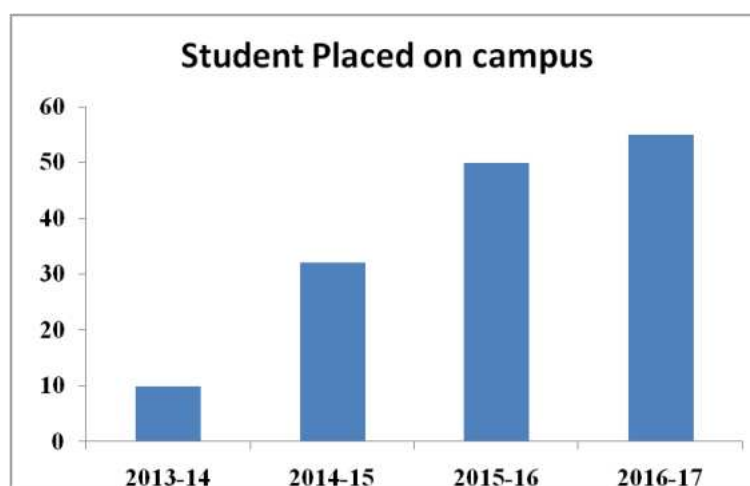


List of Employers, Programs of students selected are given below

Year	Company/Employer	Place of Interviews	Students Selected
2013-14	TCS	Kamla Nehru College	05
	IBM	Kamla Nehru College	02
	WIPRO	Kamla Nehru College	03
2014-15	Karan Kothari Jewellers	Kamla Nehru College	15
	Mahindra & Mahindra Ltd.	Kamla Nehru College	04
	TCS	Kamla Nehru College	08



	Axis Bank	Kamla Nehru College	05
2015-16	Corning international	Kamla Nehru College	10
	Eureka Forbes	Kamla Nehru College	13
	HDFC	Kamla Nehru College	06
	TCS	Kamla Nehru College	21
2016-17	Tata business support services	Kamla Nehru College	39
	CMS- IT	Kamla Nehru College	16



**5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.**

Yes, the college has Students grievanceredressedcell to scrutinize into the students grievance at individual level and grievances of common interest. In order to meet the grievances a suggestion box has been mounted near to Principal's Cabin. Regular counseling of students regarding discipline was done by Faculty in charge through class teachers. Many students demand for the uniform, so in consecutive years uniform was given to the students. Students of M.Com asked for new books in the library. So in the consecutive years new books has been purchased for the library. In the same session some students demand for the personality development and spoken English classes. So every year the placement cell organises some session for personality development & spoken English classes. No significant or serious Grivences have been reported since last five academic years.



### 5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

Yes the college have formed sexual harassment cell. A committee is constituted by the principal of the college. Prof. Mrs. Vandana Kharabe is incharge of the cell. Committee organizes programs to sensitize and to protect the women from harassment at work place as well as in other areas of life. Various gender sensitization programs have been arranged.

Some of them are

- “Girls Beware” A programme was conducted by Prof. Vijay Marotkar.
- “Relation between Mother and Daughter”  
A lectures deliveredby Mrs Mira Khadatkar
- ‘Self defence Workshop’ was organized in collaboration with JAYCEES.
- Poster competition was taken on Female Feticide and Gender Equality.
- National conference on Female Feticide was organized sponsored which was sponsored by National Commission for Women, New Delhi



Till date no serious case has been reported in the college.

### 5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes. The committee has been constituted to tackle with the incidences within the campus. As per the UGC regulations on ragging, boards are displayed at prominent places in college premises. Also an undertaking is taken from the students and parents at the time of admission in the college. During the first year of the students it is made clear to all the students about the actions taken against ragging. So far no such cases have reported or observed in the college premises.



**5.1.13 Enumerate the welfare schemes made available to students by the institution.**

Student Welfare has been the matter of primary concern in Kamla Nehru College. There is a provision for welfare schemes for students. Prominently Student Welfare is sought after under the following heads:-

**I. Academic**

- Student mentorship is done by the respective class teachers.
- Remedial Teaching for slow learners.
- Special Coaching for Advanced Learners in the form of extra and challenging assignments
- Book Bank facility for economically deprived students.
- Placement and Counseling of all the students.

**II. Cultural and Overall**

- Organization of cultural and sports events / activities.
- Encouragement for participation in inter college and inter university debates, sports etc.
- Personality Development, Guidance for Competitive Examinations.

**III. Social and Financial**

- Ensuring implementation of Reservation Policy of Govt. of Maharashtra.Scholarships and Free ships.
- Financial assistance is given to sportspersons participating in National level games

**IV. Scholarships****Late Govindrao Wanjari Memorial Scholarship**

- The 'Govindrao Wanjari Memorial Scholarship', would be given under the following heads:

**Economically Backward Students' Scholarship**

This Scholarship is given to some students falling under the following criterion:

- The income of the parents/guardians of the concerning students should



not be above Rs. 1,00,000/-

- The student liable for the scholarship can belong to any category/ caste/ religion.

#### **Physically Handicapped Students' Scholarship**

- This Scholarship is given to some students having physical disability and thereby, the Scholarship is given to the candidate having Certificate of the Civil Surgeon of the Govt. Hospital.

#### **Meritorious Students' Scholarship**

- Students from the college securing highest marks in the University
- The top scorers of the institution are given this scholarship.

#### **Needy Students' Scholarship**

- On Compassionate and Sympathetic grounds, this Scholarship is given to the students in urgent need.

#### **V. Infrastructure**

- Hostel facilities for the girls' students.
- Sports facilities in the form of a Multi Station Gymnasium.
- Subsidized Canteen facilities.

#### **VI. Health**

- Free Medical checkup and Physical checkup for all the students.
- Free medicine and primary treatment through the Health Centre.
- Special diets on prior intimation.

#### **5.1.14 Does the institution have a registered Alumni Association? If 'Yes', what are its activities and major contributions for institutional, academic and infrastructure development?**

Yes. The college has a registered Alumini Association. Alumini meet is taken every year. The Prominent Alumini guide the students about different field. Also during the social gathering Alumini participates in various activities. A registered body is formed which constitutes 07 members including President. The



constitution of body is as under.

Dr. Arvind Shende	President
Mr. Anil R Bhaik	Vice- President
Dr. Dattarya Chitaman Wazaekar	Secretary
Mr. Hemant Damodhar Bhattad	Joint Secretary
Rina Jain	Treasurer
Dr. Jaylaxmi H Binwar	Member
Mr. Ashish Rewatkar	Member



#### Top twenty Renowned Alumnae

S.n	Name of Alumnae	Post Held
1	CA Chetan Bhandirge	Chartered Accountant- self employed
2	CA Pankaj Khadse	Chartered Accountant- self employed
3	CA Sagar Wazarkar	Chartered Accountant- senior manager Corporate finance company Mumbai
4	Dr. Samay Pande	Luice Lab Germany
5	Ms. Rachana Dholphare	HRD officer USA
6	Mr. Umesh Dhawale	Branch manager IDBI
7	Mr. Samir Chaudhari	Project manager Prolific Pvt, Ltd
8	Mr. Shrikant Borkar	Assistant Professor, Institute of Science
9	Mr. Mangesk Pustode	Corrosive Executive of KCTI, Bharat Forge Ltd. Pune
10	Dr. Abhay Deshmukh	Assistant Professor, PGTD, RTMNU, Nagpur
11	Dr. Kartik Shinde	Director, Research Cell, N.S College Bhadrawati
12	Dr. Vijay Pawade	Assistant Professor, LIT Nagpur
13	Prof. Ashwin Godghate	Assistant Professor, Kolhapur University
14	Mr. Ashish Lakhe	Principal, Adarsh Sanskar Vidyalaya and Junior College.



15	Dr. P. A Rode	Associate Professor, Santaji Mahavidyalaya
16	Dr. D. H Puttevar	Associate Professor, Dr. Ambedkar College
17	Dr. Shriniwas Manekar	Associate Professor, R.S. Mundle Dharampeth College
18	Dr. Vaishali Ruikar	Associate Professor, Nabira Mahavidyalaya Katol
19	CA Reena Jain	Chartered Accountant- self employed
20	Mrs. Pushpalata Maske	Probationary Officer, Gramin Bank Mumbai

## 5.2 Student Progression

### 5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight The trends observed.

Student progression	%
UG to PG	19.5%
PG to M.Phil.	--
PG to Ph.D.	2%
Employed	

### 5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (course wise/batchwise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

A faculty meeting for analysis of result and successive planning is held at the beginning of the session. A discussion is made on the improvement of results by every department. College motivates the class toppers by awarding medals and certificates.

#### 2012-13

S.N.	Name of Course Year /Semester	No of Students Enrolled	Appeared	1 <sup>st</sup> class	2 <sup>nd</sup> class	No of students Passed	No of students Failed
1	B.A (Marathi)	87	87	24	52	76	03





2	B.A (Mar. Lit)	60	40	3	11	39	21
3	B.A (Eng.)	86	86	01	03	43	43
4	B.A (Eng Lit)	86	86	0	43	43	43
5	B.A (Eco)	43	40	6	19	36	4
6	B.A (His)	20	18	1	6	13	5
7	B.A (Soc.)	45	41	3	24	39	2
8	B.A (Pol. Sci.)	68	68	5	11	40	28
9	B.A (Music.)	7	6	5	1	6	0
10	B.A. ( Home Eco.)	14	14	07	04	12	02
11	B.Sc(Chem)	62	62	29	7	36	26
12	B.Sc(Phy)	32	32	3	11	24	8
13	B.Sc(Maths)	50	49	3	21	24	25
14	B.Sc(Elec)	21	21	5	8	13	8
15	B.Sc(Com. Sci)	196	196	72	67	141	55
16	B.Sc(Biotech)	46	46	8	22	31	15
17	B.Sc(Bio0 Chem)	9	9	1	3	5	4
18	B.Sc(Zoology)	16	16	3	8	11	5
19	B.Sc(Botany)	17	12	5	3	11	1
20	B.Sc(Microbiology)	49	49	0	0	39	10
21	B.Sc(Env Science)	6	5	1	2	3	2
22	B.Tech (Cosmetics)	14	14	13	0	13	1
23	BCA	88	88	4	62	66	22
24	B.Lib	06	05	01	00	01	04
25	B.Com	174	174	4	90	119	55
26	B.Com (CA)	76	74	15	41	61	13
27	BBA	76	76	21	40	64	12
28	M.A(Eng)	26	26	0	3	9	17
29	M.A(Mar)	8	8	0	0	1	7
30	M.A(Eco)	33	32	0	0	14	18
31	M.A(His)	15	15	8	0	8	7
32	M.A(Pol)	12	1	0	0	0	1
33	M.A(Soc)	19	18	0	0	12	6
34	M.Lib	13	12	05	06	11	01
35	M.Com	51	46	9	6	20	26
36	M.Sc (Phy)	19	19	1	2	5	14
37	M.Sc(Chem)	12	12	7	3	10	2
38	M.Sc(Elec)	2	2	1	0	1	1
39	M.Sc(M/B)	6	6	0	0	4	2
40	M.Sc(Zoo)	7	6	3	1	4	2
41	M.Sc(Bot)	4	3	1	0	1	2
42	M.Sc(Biochem)	1	1	0	1	1	0
43	M.Sc(Evs)	4	4	4	0	4	0
44	M.Sc (Maths)	10	10	0	1	2	8
45	M.Sc(Biotech)	0	1	0	0	0	1
46	M.Tech(cosm. Tech)	09	09	06	01	07	02
47	M.C.A	55	55	55	0	55	0
48	M.Sc (Com Sci)	16	16	1	4	5	11
49	M.C.M	9	9	1	0	3	6



50	M.B.A	46	46	23	09	32	14
51	PGDCSA	4	4	1	0	1	3
52	PGDCCA	24	24	10	1	11	13

## 2013-14

S.N.	Name of Course Year /Semester	No of Studen ts Enroll ed	Appear ed	1 <sup>st</sup> class	2 <sup>nd</sup> class	No of students Passed	No of student s Failed
1	B.A (Marathi)	106	106	1	23	36	70
2	B.A (Mar. Lit)	46	46	0	1	18	28
3	B.A (Eng)	96	96	00	12	52	44
4	B.A (Eng Lit)	140	96	1	51	52	44
5	B.A (Eco)	58	54	16	24	53	1
6	B.A (His)	30	30	2	9	22	8
7	B.A (Soc.)	52	47	5	20	43	4
8	B.A (Pol. Sci.)	61	61	6	16	48	13
9	B.A (Music.)	8	8	1	6	7	1
10	B.A. ( Home Eco )	14	14	07	04	11	03
11	B.Sc(Chem)	62	62	7	27	34	28
12	B.Sc(Phy)	41	37	5	9	23	14
13	B.Sc(Maths)	53	48	7	15	24	24
14	B.Sc(Elec)	16	16	3	5	8	8
15	B.Sc(Com. Sci)	169	166	84	49	139	27
16	B.Sc(Biotech)	56	45	3	20	24	21
17	B.Sc(Bio0 Chem)	10	09	1	4	5	4
18	B.Sc(Zoology)	22	22	4	14	18	4
19	B.Sc(Botany)	15	14	5	6	12	2
20	B.Sc(Microbiology)	57	57	0	0	29	28
21	B.Sc(Env Science)	7	7	1	2	5	2
22	B.Tech (Cosmetics)	18	18	14	0	14	4
23	BCA	56	54	1	49	50	4
24	B.Lib	04	04	01	00	01	03
25	B.Com	173	173	3	66	96	77
26	B.Com (CA)	95	94	21	58	80	14
27	BBA	79	79	32	36	73	6
28	M.A(Eng)	13	13	00	02	02	11
29	M.A(Mar)	11	11	2	6	8	3
30	M.A(Eco)	18	16	8	3	11	5
31	M.A(His)	12	9	4	2	6	3
32	M.A(Pol)	9	8	0	0	6	2
33	M.A(Soc)	13	10	2	1	3	7
34	M.Lib	10	10	04	02	06	04
35	M.Com	98	92	42	0	42	50
36	M.Sc (Phy)	12	12	0	0	0	12
37	M.Sc(Chem)	12	12	0	2	2	10
38	M.Sc(Elec)	2	2	1	0	1	1



39	M.Sc(M/B)	25	25	0	0	10	15
40	M.Sc(Zoo)	5	5	0	0	3	2
41	M.Sc(Bot)	3	2	0	0	0	2
42	M.Sc(Biochem)	0	0	0	0	0	0
43	M.Sc(Evs)	2	2	2	0	2	0
44	M.Sc (Maths)	15	13	0	0	0	13
45	M.Sc(Biotech)	3	3	0	0	1	2
46	M.Tech(cosm. Tech)	11	09	06	0	06	03
47	M.C.A	46	46	40	0	46	0
48	M.Sc (Com Sci)	15	15	6	0	6	9
49	M.C.M	35	35	26	0	26	9
50	M.B.A	50	49	31	0	31	18
51	PGDCSA	3	2	0	0	0	2
52	PGDCCA	14	14	11	0	11	3

## 2014-15

S.N.	Name of Course Year /Semester	No of Students Enrolled	App are d	1 <sup>st</sup> class	2 <sup>nd</sup> class	No of students Passed	No of students Failed
1	B.A (Marathi)	149	140	16	67	136	04
2	B.A (Mar. Lit)	57	57	1	27	55	2
3	B.A (Eng)	96	96	01	04	56	40
4	B.A (Eng Lit)	113	96	5	51	56	40
5	B.A (Eco)	83	78	19	32	73	5
6	B.A (His)	55	55	7	13	38	17
7	B.A (Soc.)	76	69	5	39	68	1
8	B.A (Pol. Sci.)	76	76	1	14	48	28
9	B.A (Music.)	9	8	4	3	7	1
10	B. A. ( Home Eco )	13	13	13	0	13	00
11	B.Sc(Chem)	130	130	11	59	70	60
12	B.Sc(Phy)	76	70	12	29	55	15
13	B.Sc(Maths)	88	85	9	44	54	31
14	B.Sc(Elec)	23	23	8	10	18	5
15	B.Sc(Com. Sci)	152	150	79	40	127	23
16	B.Sc(Biotech)	71	56	4	28	34	22
17	B.Sc(Bio0 Chem)	22	22	0	6	6	16
18	B.Sc(Zoology)	43	43	6	11	17	26
19	B.Sc(Botany)	24	24	8	5	16	8
20	B.Sc(Microbiology)	86	86	0	0	35	51
21	B.Sc(Env Science)	7	7	1	2	3	4
22	B.Tech (Cosmetics)	11	11	9	1	10	1
23	BCA	46	44	7	33	40	4
24	B.Lib	0	0	0	0	0	0
25	B.Com	237	233	3	99	133	100
26	B.Com (CA)	84	82	17	41	60	22



27	BBA	94	94	27	45	74	20
28	M.A(Eng)	15	15	00	03	03	12
29	M.A(Mar)	11	11	3	8	11	00
30	M.A(Eco)	12	8	1	4	5	3
31	M.A(His)	10	10	1	6	7	3
32	M.A(Pol)	6	5	0	0	5	0
33	M.A(Soc)	17	14	3	6	9	5
34	M.Lib	04	04	03	01	04	0
35	M.Com	111	104	70	1	71	33
36	M.Sc (Phy)	7	4	0	0	0	4
37	M.Sc(Chem)	20	20	2	0	2	18
38	M.Sc(Elec)	7	7	5	0	5	2
39	M.Sc(M/B)	14	14			7	7
40	M.Sc(Zoo)	6	6	0	0	3	3
41	M.Sc(Bot)	6	4	0	0	0	4
42	M.Sc(Biochem)	0	0	0	0	0	0
43	M.Sc(Evs)	0	0	0	0	0	0
44	M.Sc (Maths)	10	8	0	0	0	8
45	M.Sc(Biotech)	7	7	3	2	5	2
46	M.Tech(cosm. Tech)	11	11	11	00	11	00
47	M.C.A	38	38	38	0	38	0
48	M.Sc (Com Sci)	19	19	1	7	8	11
49	M.C.M	36	36	31	0	31	5
50	M.B.A	55	54	49	00	49	05
51	PGDCSA	1	1	1	0	1	0
52	PGDCCA	12	12	1	0	9	3

## 2015-16

S.N.	Name of Course Year /Semester	No of Students Enrolled	App eare d	1 <sup>st</sup> cla ss	2 <sup>nd</sup> class	No of students Passed	No of studen ts Failed
1	B.A (Marathi)	112	105	9	53	104	01
2	B.A (Mar. Lit)	39	39	1	6	13	26
3	B.A (English)	105	105	03	15	61	44
4	B.A (Eng Lit)	106	106	2	56	61	45
5	B.A (Eco)	67	64	8	39	63	1
6	B.A (His)	42	39	4	7	22	17
7	B.A (Soc.)	56	55	10	23	44	11
8	B.A (Pol. Sci.)	70	70	0	7	49	21
9	B.A (Music.)	11	10	6	3	9	1
10	B. A. ( Home Eco )	20	18	18	00	18	00
11	B.Sc(Chem)	144	144	58	24	82	62
12	B.Sc(Phy)	64	64	16	12	31	33
13	B.Sc(Maths)	73	71	16	12	34	37
14	B.Sc(Elec)	11	11	1	6	10	1
15	B.Sc(Com. Sci)	160	157	82	58	140	17
16	B.Sc(Biotech)	58	58	23	21	49	9
17	B.Sc(Bio0 Chem)	23	23	20	1	21	2



18	B.Sc(Zoology)	48	47	17	22	39	8
19	B.Sc(Botany)	34	34	10	4	20	14
20	B.Sc(Microbiology)	72	72	0	0	52	20
21	B.Sc(Env Science)	17	17	2	10	12	5
22	B.Tech (Cosmetics)	17	17	14	0	14	3
23	BCA	79	76	9	58	67	9
24	B.Lib	0	0	0	0	0	0
25	B.Com	208	208	8	71	109	99
26	B.Com (CA)	57	56	8	18	30	26
27	BBA	84	84	25	34	67	17
28	M.A(Eng)	17	17	00	00	00	17
29	M.A(Mar)	18	18	11	4	15	3
30	M.A(Eco)	17	10	1	6	7	3
31	M.A(His)	26	26	8	8	16	10
32	M.A(Pol)	16	9	0	0	9	0
33	M.A(Soc)	24	21	12	6	18	3
34	M.Lib	06	06	05	00	05	01
35	M.Com	133	131	74	1	75	58
36	M.Sc (Phy)	12	12	0	0	2	10
37	M.Sc(Chem)	18	18	2	1	3	15
38	M.Sc(Elec)	9	9	3	1	4	5
39	M.Sc(M/B)	23	23			4	19
40	M.Sc(Zoo)	10	10	0	0	4	6
41	M.Sc(Bot)	7	7	0	0	0	7
42	M.Sc(Biochem)	1	1	0	0	0	1
43	M.Sc(Evs)	15	15	10	1	11	4
44	M.Sc (Maths)	12	12	4	0	4	8
45	M.Sc(Biotech)	11	11	3	0	8	3
46	M.Tech(cosm. Tech)	09	09	04	00	04	05
47	M.C.A	32	32	32	0	32	0
48	M.Sc (Com Sci)	4	4	4	0	4	0
49	M.C.M	37	37	30	0	30	7
50	M.B.A	44	40	35	00	35	05
51	PGDCSA	1	1	1	0	1	0
52	PGDCCA	7	7	6	0	6	1

### 5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

Kamla Nehru College considers students as the heart of all its academic endeavours. The College carries forward the tradition of mentoring the students. The teacher- student relationship in college follows the same tradition of close interaction inside and outside the classroom. In College there is a conscious effort to provide a formal structure to this age old tradition of mentoring and support to



students. The office of the Principal is the office exclusively geared towards responding to the needs of the student. The underlying philosophy being students should have a dedicated office to raise concerns and redressal of student issues should be one of the highest priorities of the College. The college observes overall charge of all co-curricular activities related to students such as student's residence and health, student's aid, youth welfare activities, cultural activities and student societies, student council activities and, National Cadet Corps, National Service Scheme. To ensure academic mentoring and support the college has institutionalized a system of tutorials.. A tradition of College, where teacher-student academic interaction occurred both inside the class and outside, and the tutorial system aims to institutionalise the ethos of learning outside class lectures. In addition to tutorials, every department has its own seminar and workshop programmes aimed to broadening the academic exposure of the students. Every department of the College has a monthly colloquium that brings notable experts from various fields to talk on diverse issues and expose the students to a world outside the formal syllabi. Besides the departmental initiative aimed at academic mentoring the college has a Lecture series.

Students Progression details are given below:

Name of the course	Admitted in First Year	Strength in Final	Admitted in final year
B.A	220	205	112
B.Com	340	336	208
B.Sc	420	385	196
B.Com (C.A)	96	90	57
BBA	120	118	84
BCA	120	119	79
B.Tech (Cosmetics)	29	29	17
M.A(Eng)	35	27	17
M.A(Mar)	14	14	18
M.A(Eco)	24	20	17
M.A(His)	10	10	26
M.A(Pol)	18	17	16
M.A(Soc)	25	19	24
M.Com	150	138	133
M.Sc (Phy)	22	22	12
M.Sc(Chem)	28	27	23
M.Sc(Elec)	7	7	13
M.Sc(M/B)	22	22	23
M.Sc(Zoo)	17	14	10
M.Sc(Bot)	10	8	7
M.Sc(Biochem)	1	1	1



M.Sc (Maths)	22	20	12
M.Sc(Biotech)	5	4	3
M.Sc (Environment)	16	16	15
M.Tech(cosm. Tech)	12	10	9
M.C.A	6	5	32
M.Sc (Com Sci)	22	22	20
M.Lib	3	3	6
M.C.M	53	36	44
M.B.A	60	59	43

#### 5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout?

Our college has relatively low drop out ratio. In our College the percentage of girls is much higher than the boys. The girls often came from rural areas and they discontinue their education after getting married. Special efforts are made by counseling such girls students.

S.N	Name of the course	Admitted in First Year	Strength In Final Year	Admitted in Final Year	Pass out %	Drop out Ratio
1	B.A	220	205	112	54.63	45.37
2	B.Com	340	336	208	61.90	38.10
3	B.Sc	420	385	196	50.91	49.09
4	B.Com (C.A)	96	90	57	63.33	36.67
5	BBA	120	118	84	71.19	28.81
6	BCA	120	119	79	66.39	33.61
7	B.Tech (Cosmetics)	29	29	17	58.62	41.38
8	M.A(Eng)	35	27	17	62.96	37.04
9	M.A(Mar)	14	14	14	100	0
10	M.A(Eco)	24	20	17	85	15
11	M.A(His)	10	10	10	100	0
12	M.A(Pol)	18	17	16	94.12	5.88
13	M.A(Soc)	25	19	19	100	0
14	M.Com	15	138	133	96.38	3.62
15	M.Sc (Phy)	22	22	12	54.55	45.45
16	M.Sc(Chem)	28	27	23	85.19	14.81
17	M.Sc(Elec)	7	7	7	100	0
18	M.Sc(M/B)	22	22	22	100	0
19	M.Sc(Zoo)	17	14	10	71.43	28.57
20	M.Sc(Bot)	10	8	7	87.50	12.50
21	M.Sc(Biochem)	1	1	1	100	0
22	M.Sc (Maths)	22	20	12	60	40
23	M.Sc(Biotech)	5	4	3	75	25
24	M.Sc (Environment)	16	16	15	93.75	6.25
25	M.Tech(cosm. Tech)	12	10	9	90	10



26	M.C.A	6	5	5	100	0
27	M.Sc (Com Sci)	22	22	20	90.91	9.09
28	M.Lib	3	3	3	100	0
29	M.C.M	53	36	36	100	0
30	M.B.A	60	59	43	72.88	27.12
						553.37
Average drop out ratio						18.45

### 5.3.1 List the range of sports, games, cultural and other extra curricular activities available to students. Provide details of participation and program calendar.

The different range of sports , games available to the students are Volleyball, Kabaddi, Chess, Gymnastic, Athletics, Cross Country, Cricket, Boxing Badminton, KUDO, Ball-Badminton, JUDO, Yogasan.

The different range of cultural activities available to the students is listed below Drama, Folk and fusion dances, fashion shows etc.

The different range of extracurricular activities available to the students are Debate, Elocution, poster slogan, etc

#### Students Activities ( Participation ) 2012-13

S. N.	Sports / Games	Inter Collegiate		University		State		National		International		Total	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1	Volley Ball	7	9				3		1			7	13
2	Kabaddi	1										1	
3	Chess	4										4	
4	Soft Ball	13										13	
5	Athletics	2										2	
6	Cross Country Race	2										2	
7	Cricket	15	2		1							15	3
8	Boxing		1										1
9	Badminton	6										6	
10	Malkhamb	1				1						1	1
11	Ball Badminton	2										2	
12	Judo	1										1	
13	Yogasan	1										1	
14	Fencing	1	1	1	1	1						2	2
15	Karate	1	1			1	1				1	2	2





Total	57	14	1	2	3	4		1		1	61	22
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**2013-14**

S. N.	Sports / Games	Inter Collegiate		University		State		National		International		Total	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1	Volley Ball	12	9				1					12	10
2	Kabaddi		3		1							0	4
3	Chess	7										7	0
4	Cross Country Race		1									0	1
5	Cricket	12	1		1							12	2
6	Badminton	6	5									6	5
7	Ball Badminton	1										1	0
8	Judo		1									0	1
9	Yogasan		3		1							0	4
10	Fencing	1		1								2	0
11	Swimming	1										1	0
12	Tennis Ball Cricket		3						3			0	6
13	Tenni Koit		1						1			0	2
14	Hando		1				1				1	0	3
	Total	40	28	1	3		2		4		1	41	38

**2014-15**

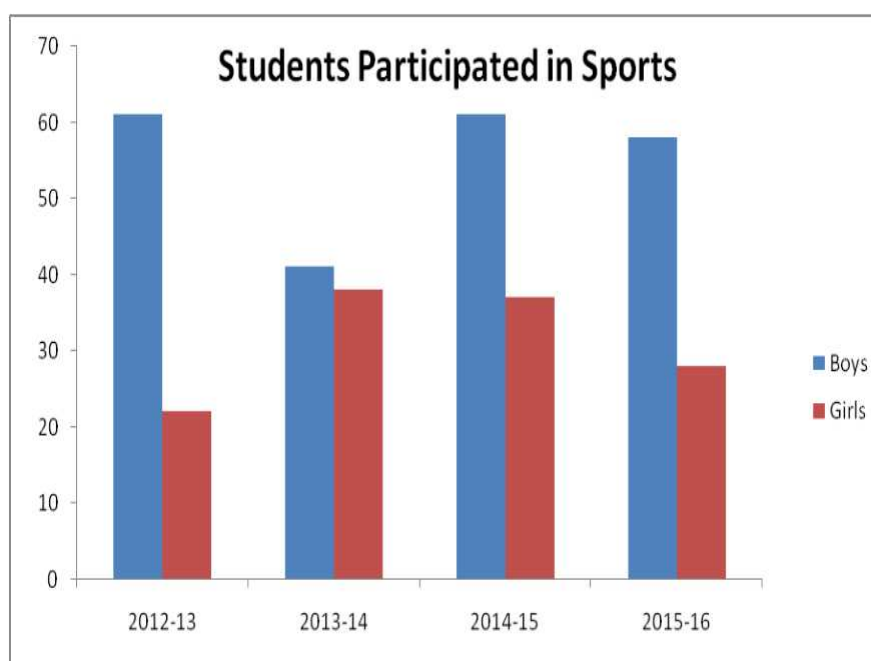
S. N.	Sports / Games	Inter Collegiate		University		State		National		International		Total	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1	Volley Ball	11	9	1								12	9
2	Kabaddi	13										13	0
3	Chess	6										6	0
4	Athletics	2	1			2						4	1
5	Cross Country Race	2	1	1								3	1
6	Cricket	15	1		1							15	2
7	Badminton	5	5									5	5
8	Judo	1	3									1	3
9	Yogasan		6		2							0	8
10	Karate		1								1	0	2
11	Shooting	1		1								2	0



12	Gymnastics		2									0	2	
13	Wrestling		1		1							0	2	
14	Kudo		1				1					0	2	
	Total	56	31	3	4	2	1					1	61	37

**2015-16**

S. N.	Sports / Games	Inter Collegiate		University		State		National		International		Total	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1	Volley Ball	13	2				1					13	3
2	Kabaddi	10										10	0
3	Soft Ball	1				1						2	0
4	Cross Country Race	2	2									2	2
5	Cricket	15										15	0
6	Badminton	6	5									6	5
7	Judo	1		1								2	0
8	Karate		1					1		1		0	3
9	Tenni Koit		1					1				0	2
11	Thai Boxing		1				1	1		1		0	4
12	Chess	6	5									6	5
13	Gymnastics		1		1							0	2
14	Air Rifle Shooting	1		1								2	0
15	Kudo		1				1					0	2
	Total	55	19	2	1	1	3		3		2	58	28



**5.3.2 Furnish the details of major student achievements in co-curricular, extra curricular and cultural activities at different levels: University/ State/ Zonal/ National/ International, etc. for the previous four years.**

Around 80 students have participated and won in various state / district/ National level cultural activities and 75 students have participated and won the prizes in co-curricular activities during the last four academic years.

**Co-curricular Achievements**

SESSION	NAME OF THE DEPARTMENT	ACTIVITY	NAME OF THE STUDENT	REMARKS
2012-13	MARATHI	Poster & Slogan competition	Students of B.A	Participation
		Educational study tour to Markanda	Students of B.A	Participation
	SOCIOLOGY	Intercollegiate Research Paper Competition	Ku.Pranali Ingole	<b>Best Paper award</b>
		Avishkar stage I	Ku.NamrataNikam	<b>Best Paper award</b>
			Ku. Madhuri Lambat	Participation
	BIOCHEMISTRY	Exetaza2013 Quiz Competition	Ashwini Kshirsagar	<b>Ist Prize</b>
		Poster Competition	Payal Gaidhane	<b>IInd Prize</b>
		Quiz Competition	Yatish Vensani	<b>IInd Prize</b>
		Seminar Competition	Priti Singh	<b>Ist Prize</b>
		Seminar Competition	Aishwarya Bhisikar	<b>IInd Prize</b>
		Seminar Competition	Ankit Mungale	<b>IInd Prize</b>
		Poster Competition	Vaibhavi Fulwale	<b>IIIrd Prize</b>
		Quiz Competition	Akshay Tamne	<b>IInd Prize</b>
		Quiz Competition	Anjali Tamgadge	<b>IInd Prize</b>
		Quiz Competition	Radhika Gajendragadkar	<b>Ist Prize</b>
		Paper presentation	Pushpalata Maske	<b>Ist Prize</b>
2013-14	MARATHI	Model & Poster on Prachin Marathi Vangmayacha Itihas( AVISHKAR)	Shweta Modak, Rupali Ukey, Roshni Samarth	Participation
	COSMETIC-TECHNOLOGY	Writing Competition	Ankita Kawale	<b>Ist Prize</b>
	BIOTECHNOLOGY	Intercollegiate Science exhibition at kamla Nehru Mahavidyalaya	Ms. Narmada Parate	<b>Ist Prize</b>
		National Seminar on Life Science Revolution organized by Sindhu Mahavidyalaya Nagpur	Mr. Bhushan Bhad	<b>Consolation Prize</b>
		Intercollegiate research festival "AVISHKAR"	Ms. Narmada Parate	Participation
		National Seminar on Life Science Revolution organized by Sindhu Mahavidyalaya Nagpur	Mr. Akash Peshne	Participation
	BIOCHEMISTRY	Intercollegiate Seminar	Aarti Dubey	<b>II<sup>nd</sup> Prize</b>
		Intercollegiate Seminar	Mohini Badge	<b>I<sup>st</sup> Prize</b>



		Intercollegiate Seminar	Sohan Paunikar	<b>III<sup>rd</sup> Prize</b>
		Intercollegiate Poster Competition	Poonam Vaidya	<b>II<sup>nd</sup> Prize</b>
		Intercollegiate Seminar	Shahin Pathan	<b>I<sup>st</sup> Prize</b>
		Intercollegiate Seminar	Sneha Mathne	<b>II<sup>nd</sup> Prize</b>
	CHEMISTRY	Chemistry talent search examination	Ms Neha Yeole	<b>I<sup>st</sup> Prize</b>
		Intercollegiate seminar competition	Mr. Lokesh Thakre	Participation
		Intercollegiate seminar competition	Ms. Neha Patel	Participation
		Intercollegiate seminar competition	Ms Pooja Mirashe	Participation
		Intercollegiate seminar competition	Ms Rupali Bidkar	Participation
		Intercollegiate seminar competition	Ms. Priya Meshram	<b>II<sup>nd</sup> Prize</b>
2014-15	MARATHI	Workshop on Computer Awareness	Students of B.A-I <sup>st</sup> yr	Participation
	PHYSICS	Inter collegiate seminar competition (28/01/2015)	Miss. Mansi Parab	<b>III<sup>rd</sup> Prize</b>
	BIOTECHNOLOGY	Power point presentation completion at M.P.Deo . Memorial college, Nagpur	Mr. Bhushan Bhad	Participation
		“PRAGYAA -2015” organized by Singhji Institute of Engineering	Ms. Narmada Parate	Participation
		Youth Seminar organized by the Energy and resource institute at Hislop College	Ms . Antara Ingewar	Participation
		Youth Seminar organized by the Energy and resource institute at Hislop College	Ms. Prajkta Shende	Participation
		Scientific rangoli Competition at M. P. Deo . Memorial college , Nagpur	Ms. Prajkta Nimsarkar	Participation
		State level Science Knowledge test , organized by Dr. Ambedkar College , Nagpur	Mr. Roshan Shrikhande	Participation
		State level Science Knowledge test , organized by Dr. Ambedkar College , Nagpur	Ms. Prajkata Shende	Participation
		State level Science Knowledge test , organized by Dr. Ambedkar College , Nagpur	Mr. Lokesh Thakre	Participation
		State level Science Knowledge test , organized by Dr.	Mr. Vishal Sherkure	Participation



		Ambedkar College , Nagpur		
BIOCHEMISTRY	Seminar	Chetana Chichmalkar	<b>I<sup>st</sup> Prize</b>	
	Seminar	Neha chandanbatwe	<b>I<sup>st</sup> Prize</b>	
	Seminar	Umesh Bawane	<b>III<sup>rd</sup> Prize</b>	
	Seminar	Mrunalini Laghwe	<b>III<sup>rd</sup> Prize</b>	
	Seminar	Kajal Shirbhaoye	<b>II<sup>nd</sup> Prize</b>	
	Seminar	Pratik Supare	<b>II<sup>nd</sup> Prize</b>	
	Poster Competition	Puja Kadu	<b>II<sup>nd</sup> Prize</b>	
	Poster Competition	Puja Kadu	<b>III<sup>rd</sup> Prize</b>	
MICROBIOLOGY	Seminar Competition	Mr.Aman deogade	<b>consolation prize</b>	
	Science Quiz Competition	Ku.Prajakta shende	<b>II<sup>nd</sup> prize</b>	
	Science Quiz Competition	Mr. lokesh thakre	participation	
	Science Quiz Competition	Mr. bharat yelne	participation	
	Science Quiz Competition	Mr. shubhum giri	participation	
	Science Quiz Competition	Mr.vishal sherkure	participation	
	Science Quiz Competition	Ku.Antara ingewar	Participation	
	International young microbiologist competition	Mr.Aksha J shahu	Participation	
MATHEMATICS	Intercollegiate seminar	Ms. Mansi Parab	<b>III<sup>rd</sup>Prize</b>	
	Intercollegiate Quiz Competition	Ms Achal Mankar, Ms Anjushree Jagatpal	<b>I<sup>st</sup> Prize</b>	
	Intercollegiate Quiz Competition	Mr. Ravibhushan Tripathi, Mr. Suraj Borkute	<b>III<sup>rd</sup> Prize</b>	
	Poster and Paper Contest competition	Ms. Tejal Yende	Participated	
	Intercollegiate Poster Competition	Mr, Jagendra Rahangdale and Mr. Swapnil Kshirsagar	Participation	
	Intercollegiate seminar competition	Ms Neha Yeole and Ms. Mansi Parab	Participation	
	Workshop on Basic Techniques in Plant Biotechnology and Phytochemistry	Deptt of Biotech & Chemistry in Collaboration with ICAR-CICR.	Participation	
	PHYSICS	University level Seminar Competition (VUPTA)	Mr. Devendra Kamble and Miss. Rahila Sheikh	<b>II<sup>nd</sup> Prize</b> <b>1<sup>st</sup> Prize</b>
COSMETIC TECHNOLOGY	Poster Competition	Rakhee Wankhede	Participation	
		Yogini Jain	Participation	
		Neelima Paunikar	Participation	
	Poster Competition	Payal Lokhande	Participation	
		Minakshi Sirsikar	Participation	
		Saksh Bhure	Participation	
		Monisa Zahra	Participation	
BIOTECHNOLOGY	State level Science Knowledge test ,	Mr. Ashish kawale	Participation	



		organized by Dr. Ambedkar College , Nagpur		
		State level Science Knowledge test , organized by Dr. Ambedkar College , Nagpur	Mr. Shubham giri	Participation
		State level Science Knowledge test , organized by Dr. Ambedkar College , Nagpur	Mr. Bharat Yelne	Participation
		State Level Seminar competition at J. B. Science College, Wardha	Ms. Prajka Shende	Participation
		Scientific Rangoli Competition at Dharampeth Science college , Nagpur	MS. Renuka Wagh	Participation
	ELECTRONICS	State Level Student Seminar SCINTILLATION – 2015, held at JB Science College, Wardha.	Ankita A. Aradhe	Participation
	COMPUTER SCIENCE	Prayas-15	Ms. Neha Ghorpad	<b>II<sup>nd</sup> Prize</b>
		Poster presentation	Ms. Arzoo Trivedi	<b>II<sup>nd</sup> Prize</b>
	BIOCHEMISTRY	Quiz Competition	Puja Dagde	<b>II<sup>nd</sup> Prize</b>
		Quiz Competition	Ashwini Shivankar	<b>II<sup>nd</sup> Prize</b>
		Inter-collegiate Seminar	Mrunalini Laghwe	<b>III<sup>rd</sup> Prize</b>
		Inter-collegiate Seminar	Neha Chandanbatwe	<b>I<sup>st</sup> Prize</b>
		Inter-collegiate Seminar	Kajal Shirpurkar	<b>I<sup>st</sup> Prize</b>
		Inter-collegiate Seminar	Monali Moundekar	<b>II<sup>nd</sup> Prize</b>
		Inter-collegiate Seminar	Nilima Katekhaye	<b>III<sup>rd</sup> Prize</b>
	MICROBIOLOGY	Inter-collegiate seminar competition	Pooja Kadu	<b>I<sup>st</sup> Prize</b>
		Inter-collegiate seminar competition	Ku. Khusbu Pende	<b>Consolation prize</b>

### Extra-curricular Achievements

SESSION	NAME OF THE DEPARTMENT	ACTIVITY	NAME OF THE STUDENT	REMARKS
2012-13	PHYSICS	Republic Day Parade at Red Fort New Delhi 26/01/2013	Miss. Vijaya Halmare	Participated
	BIOCHEMISTRY	Debate Competition	Bhushan Bhad	<b>II<sup>nd</sup> Prize</b>
		Elocution Competition	Bhushan Bhad	<b>III<sup>rd</sup> Prize</b>
	ARTS	Kavya Spardha	Payal Putaria	<b>I<sup>st</sup> Prize</b>
	COMMERCE	State level Karate Championship	Hemlata Gharpende	<b>I<sup>st</sup> Prize</b>
		International Karate Championship		<b>I<sup>st</sup> Prize</b>
		International Kudo Championship		<b>Bronze medal</b>
		(Dance), Yashwant		<b>Vidarbha</b>



		Bharti Lokkalyan Sanstha	Apurva Kakade	<b>Bhushan Puraskar, Nagpur</b>
		Yuva Mandal's Solo Dance competition		<b>I<sup>st</sup> Prize</b>
		Global Theater Festival Cuttack		<b>Kala Gaurav Puraskar</b>
		State level Karate Championship	Hemlata Gharpende	Participation
		Fashion show	Nilin Shegaonkar & group	Participation
2013-14	CHEMISTRY	Solo dance	Ms. Kavita Wanjari	<b>I<sup>st</sup> Prize</b>
	BIOCHEMISTRY	Rangoli Competition	Pranali Mundle	<b>I<sup>st</sup> Prize</b>
		Debate Competition	Aarti Dubey	<b>II<sup>nd</sup> Prize</b>
	COMMERCE	Natioanal level Hando Martial Art	Hemlata Gharpende	<b>Gold medal</b>
		All India Multilingual Dance Competition , Cuttack	Apurva Kakde	<b>II<sup>nd</sup> Prize</b>
		Dance "Rajraghuji Pratishtan"		<b>Rajratna puraskar</b>
		District level Dance Competition		<b>I<sup>st</sup> Prize</b>
		Mega Dance event, Nagpur		<b>III<sup>rd</sup> Prize</b>
		District level Dance Competition		<b>I<sup>st</sup> Prize</b>
		Suvarna Ganeshotsav Mandal'S Dance Competition		<b>I<sup>st</sup> Prize</b>
2014-15	CHEMISTRY	Intercolegiate debate competition	Ms. Kalyani Mishra Ms.Mansi Parab	<b>I<sup>st</sup> Prize</b>
		Intercolegiate debate competition	Ms. Mansi Parab	<b>I<sup>st</sup> Prize</b>
		Intercolegiate debate competition		<b>II<sup>nd</sup> Prize</b>
		Intercolegiate debate competition		<b>I<sup>st</sup> Prize</b>
		Intercolegiate debate competition		<b>I<sup>st</sup> Prize</b>
		Intercolegiate debate competition		<b>III<sup>rd</sup> Prize</b>
		Intercolegiate debate competition		<b>II<sup>nd</sup> Prize</b>
		Intercolegiate debate competition		<b>III<sup>rd</sup> Prize</b>
		Intercolegiate debate competition		<b>III<sup>rd</sup> Prize</b>
		Debate Competition-Lokmat Yuva NXt		Participation
	MARATHI	Elocution competition(Stri-Purush Samanata)		Students of B.A
		Jyotiba Fule Birth Anniversary-Elocution	Students of B.A	Participation
	ARTS	Intercolegiate debate competition	Ms. Shradha Shivankar	<b>III<sup>rd</sup> Prize</b>
		State level Debate	Ms. Shradha Shivankar	<b>III<sup>rd</sup> Prize</b>



		Competition		
		Poster Competition	Kalyani Gharote	Participation
		Poster Competition	Shweta Lichade	Participation
	BIOTECHNOLOGY	Elocution competition organized by Vidharbha sahitya Sangh, Nagpur	Mr. Akshay Shahu	Participation
	BIOCHEMISTRY	Duet Dance Competition	Apurva Wakle	<b>I<sup>st</sup> Prize</b>
		Duet Dance Competition	Priyanka Urade	<b>I<sup>st</sup> Prize</b>
	MATHEMATICS	Nagpur Divisional Yogasana Championship	Ku. Purva Mire	<b>1<sup>st</sup> prize</b>
	COMMERCE	Intercollegiate Debate Competition	Rohit Kothekar & Nikita Shende	<b>II<sup>nd</sup> Prize</b>
		State level Kudo Championship	Hemlata Gharpende	<b>I<sup>st</sup> Prize</b>
		National level Karate Championship	Hemlata Gharpende	<b>I<sup>st</sup> Prize</b>
		Intercollegiate Dance Competition	Apurva Kakde	<b>I<sup>st</sup> Prize</b>
2015-16	CHEMISTRY	<i>Mahila Bachat gat</i>	Deptt of Biotech Chemistry & Home science	Participation
	MARATHI	Debate competition	Ku. Shradha Shiwankar	Participation
		Essay Competition	Ku. Ashwini Vaidya	Participation
		Inter collegiate Essay competition	Ku. Arati Dhawale	Participation
		Inter-collegiate Vidarbha level Debate Competition	Mrs. Vaiyajanti Peshwe	Participation
	ARTS	University level essay competition	Chetana Mirashe	<b>III<sup>rd</sup> Prize</b>
		Intercolegiate Debate Competition	Supriya Rajguru	Participation
		Elocution Competition		Participation
		Intercolegiate Debate Competition		Participation
		Indradhanush 2016-Interuniversity fest-Debate		Participation
		Indradhanush 2016-Interuniversity fest-Elocution		Participation
		Indradhanush 2016-Interuniversity fest-Rangoli	Yogita Titarmare	Participation
	COMMERCE	Asia Cup Thia Boxing Championship	Hemlata Gharpende	<b>I<sup>st</sup> Prize</b>
		National Level Kumite Championship		<b>II<sup>nd</sup> Prize</b>
		National Level Kata Championship		<b>I<sup>st</sup> Prize</b>
		District level Karate Championship (Kata)		<b>Gold medal</b>
		District level Karate Championship (Kumite)		<b>Gold medal</b>





		District level Karate Championship (Kungfu)		<b>Gold medal</b>
		Intercollegiate Debate Competition	Neha Bhuse	Participation
		Intercollegiate Debate Competition	Sidhesh Dev	Participation
		Elocution Competition	Nikita Lichode	Participation
		Indradhanush 2016-Interuniversity fest-Classical Dance	Apurva Kakde	Participation
		Indradhanush 2016-Interuniversity fest-Spot Painting	Neha Shirke	Participation
		Indradhanush 2016-Interuniversity fest-Clay Modelling	Ronak Rewatkar	Participation
		Intercollegiate Dance Competition	Apurva Kakde	<b>I<sup>st</sup> Prize</b>
	BIOTECHNOLOGY	IInd National Debate Competition at G. H. Raisoni , Nagpur	Ms. Kalyani Mishra	<b>I<sup>st</sup> Prize</b>
	ELECTRONICS	District Level Yogasan Krida Spardha	Purva Mire	<b>Participation as a Judge.</b>
	BIOCHEMISTRY	Anchoring at Sharda Utsav	Juli Akre	<b>II<sup>nd</sup> Prize</b>
		Project on Adult Education	Samiksha Ikhar	<b>II<sup>nd</sup> Prize</b>
		Anchoring at Sharda utsav	Juli Akre	Participation
		Anchoring at Sharda utsav	Guruprasad Bante	Participation
		Project on Adult Education	Ashwini Shivankar	Participation
		Project on Adult Education	Payal Deshmukh	Participation
		Project on Adult Education	Pradnya Borkar	Participation

### 5.3.3 How does the college seek and used at a and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

The college has a system whereby students give feedback on teaching every semester. Feedback is also taken on their campus experience through suggestion box installed at prominent location. This feedback helps in improving the overall system. Feedback on the curriculum is taken from prospective employers. This helps teachers in fine tuning of deliverables in the classroom as well as in laboratories



**5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/ materials brought out by the students during the previous four academic sessions.**

College publishes in annual magazine “Kamalgandha” covering contribution of articles in three languages Marathi, English and Hindi, which promotes the students in developing the literacy and imaginative potential of the students. Students are encouraged to write their ideas and reflection in these magazines. Biannual news bulletin “Kamal Wani” is also published which reflects the activities of the college. Every departmental faculty encourages the students to contribute the articles, news, latest discoveries, invention, innovations, and paper cutting for the wall magazines which is displayed on the notice board placed in front of every department.

**5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.**

Yes, the college has a “Student Council” for every Academic Year. The selection of “Student Council” is as per provisions of Section 40(2)(b) of the Maharashtra University Act, 1994. The composition of “Student Council” is as follows:

Principal, Student Welfare Officer, Teacher In-Charge of NCC, NSS Programme Officer, one student from each class with academic merit at the examinations held in the preceding year and engaged in fulltime studies in the college (nominated by the Principal), Director of Sports and Physical. Education, one Student each (nominated by the Principal) showing outstanding performance in Sports, NSS, Adult Education, NCC and Cultural Activity, two female students nominated by the Principal (SC/ST/NT/DT-NT/OBC). The function of the Student Council is to maintain overall discipline on the campus, work as a facilitator between the students and the college and coordinate all the extra- curricular activities and annual departmental festivals of the college.

Members of the students council play an active role in various co-curricular as well as extra curricular activities of the college. Many programs such as exhibition,



poster competition, cultural program etc. are held with their co-operation. Funding for such programs are done by college through the college fund.

**5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

Student representation and participation has been an integral part of academics as also of the various activities of the college. Student representation is on the following committees:

- Student Council
- Anti-Ragging committee
- Committee for Prevention of Sexual Harassment
- Internal Quality Assurance Cell
- All organizing committees for seminars, conferences and workshops conducted in the college
- All Departmental Association activities and annual festivals are organized by students.

**5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution. Any other relevant information regarding Student Support and Progression which the college would like to include.**

The college has a system to collect feedback from its stakeholders which includes graduates and employers to improve the performance and quality of institutional provisions. We collect the Feedback in structured formats from the final year graduate students. There is a representation of employers on the IQAC, Alumni Association. The feedback from these representatives is sought during the meetings. The suggestions made by the graduates and employers are placed before the different administrative bodies for consideration and to take decisions. The college invites former faculty members and alumni for seminars and conferences



organized by the college and they are felicitated on such special occasions. Some of the former faculty members /Principals are invited to deliver special sessions at teachers' training programme. Through such functions the present faculty members and students get an opportunity to interact with the alumni and former faculty of the institution.



# **Criterion VI:**

## **GOVERNANCE, LEADERSHIP**

### **AND MANAGEMENT**



## **Criterion VI:**

### **Governance, Leadership and Management**

#### **6.1 Institutional Vision and Leadership**

**6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?**

##### **Vision**

To move towards being, Excellent and efficient professionals, responsible and sensible citizens and kind, compassionate human beings.

##### **Mission**

- To provide professional qualification laced with technical skills.
- To achieve innovation in teaching, learning, research and extension.
- To develop decision making capacity and to enable the youngsters to explore their own capability,
- To preserve our rich cultural, moral and humanistic values.
- To produce committed and better citizens and professionals.
- To infuse a competitive and lighting spirit among the students.
- To create creative, critical and analytical thinking.
- To equip the students with relevant knowledge and competence to face global challenges.
- To make the institution pioneer in providing excellent higher education through value based and career oriented programs and to ensure integrated development of the students through curricular and extracurricular activities.



**Objectives of the Institution:**

1. To work towards the growth of institution into a centre of excellence.
2. To promote the standard education in the field of Arts, Commerce, Science, Management and computer science.
3. To encourage students and teachers in the pursuit of knowledge and in setting high standard of academic achievements.
4. To develop free and fearless thinking leading to intellectual and moral maturity.
5. To bridge the gap between educational and social need.

Most of the students seeking education in this institution are from economically weaker sections of the society and from SC/ST/OBC/SBC categories. As a result, higher education has become assessable to this deprived section of society. We vigorously perceived our priorities of putting teaching and learning first, strengthening our team and maintaining the overall educational standards. An academic and extra-curricular activities accomplished every year reflects the academic and social goals of the institution.

**6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?****Role of Top Management**

The policy of Management is to impart the quality education to all. The management provides all the necessary financial support to update the infrastructure of the college up to global standard. Management motivates the principal and faculty to visit the renowned institutes and develop vision for quality improvement in the field of education and felicitate faculty members for their outstanding achievements.

The Local Management Committee (LMC) consisting of representatives from management, teaching and non-teaching staff along with the Principal as an member Secretary of the LMC is committed to effective governance. The LMC guides in planning, monitoring and evaluating mechanism regarding administrative and academic process. Management promotes to organize seminars, conferences and co-curricular functions for efficient transaction of teaching-learning process.



Local Management Committee meets twice in a year to take the review of policy, plans and action taken by the college.

The policies of institution in the matter of infrastructure development, faculty recruitment, finance management, purchase of major items and evaluation of staff performance are monitored by LMC. Other issues like UGC grant proposals, research grant proposals are discussed in LMC meetings for approval and implementation

### **Role of Principal**

The principal is an administrative and academic head of the college. The principal, IQAC Coordinator, Heads of the Department and coordinators of various committees prepares the plan for various curricular and co-curricular activities. The principal approve the plans for academic, teaching, learning and research activities accordingly. The principal is responsible for the admission of students, discipline of the college, receipts, expenditure and maintenance of accounts, management of library and correspondence of the college.

### **Role of Faculty**

The faculty is actively involved in departmental activities and responsibilities. They take all the necessary steps for successful implementation of the academic and departmental activity and submit the report. Co-curricular and extracurricular activities are planned for the overall development of students through various committees. The faculty members are nominated on various administrative, co-curricular and extra-curricular committees for smooth functioning. Faculty members are involved in designing and implementation of academic plan. The college council comprises of the faculty members who play an important role in preparing the policy and execution of plans. The staff council meets at regular and frequent interval to discuss the progress of studies, the needs of the students, improvement of academic efficiency of the college, internal management and discipline of the college. The faculty members are actively involved in Mentor Scheme and also involved in research to inculcate the research activity among students.





### 6.1.3 What is the involvement of the leadership in ensuring:

- **The policy statements and action plans for fulfillment of the stated mission**
  - **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**
  - **Interaction with stakeholders**
  - **Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders**
  - **Reinforcing the culture of excellence**
  - **Champion organizational change**
- The management through its LMC involve in policy decision, the formulation and implementation of action plan and review of overall progress of college. The Principal monitors the progress of college through review meetings.
  - The principal bears the responsibility of the smooth functioning of the college. The principal decides the quality plans and policies in consultation with the IQAC, staff council and the council of heads. Further the reviews of staff members, student representatives, parents and other stakeholders are taken into consideration for proper implementation.
  - The Principal and teachers have some forums to interact with stakeholders at all levels viz. parent-teacher meet, Alumni meet, industrial interaction, media persons etc. to strengthen the culture of excellence.
  - The leadership is committed to reinforcing the culture of excellence in all the aspects for better teaching-learning process. Faculty members of the college impart quality education through traditional and innovative ICT based learning practices. Students are sensitized on social and environmental issues and encouraged to participate in such programmes organized by the college.
  - The conferences/workshops/seminars are organized to update the faculty with technological advancements in teaching-learning.



**6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?**

The college undertakes various means and procedures to monitor and evaluate policies and plans for their effective implementation and improvement. The policies and plans are discussed at various levels.

- Local Management Committee meeting • Departmental meeting
- Staff Council meeting • Student Council meeting
- Council of Heads meeting • Planning and review meetings
- IQAC meeting • Research advisory Committee meeting
- Regular interaction with the stakeholders • Academic audit
- Feedback from Students, Alumni, Parents • Alumni meet

Heads of Department, coordinators of various committees conduct a self-evaluative exercise to study the strengths and weakness of the functioning of the college in various areas and it is discussed with the Principal in staff meeting and IQAC meetings. Suitable correctives steps are taken after discussion.

**6.1.5 Give details of the academic leadership provided to the faculty by the top management?**

Management has given freedom to the Principal and the faculty members to develop the academic leadership. Faculty In-Charge has been assigned for Arts, Commerce and Science faculties for effective planning, implementation and monitoring. The Heads of Department are given freedom to administer their respective departments, plan and execute academic programmes. The internal coordination of various activities of the institution is done through the Coordinators of the committees. The faculty is given a free hand to work as conveners, coordinators, secretary or members of the organizing committees of various academic events organized by the college. Teachers can also work on various academic bodies in the University or Government or Non-Government Organizations. The Principal encourages the faculty to work as resource persons



for conferences, refresher courses to deliver Guest Lectures in various institutes and office bearers of different academic bodies outside the college. Management encourages the faculty to organize conferences/ workshops/ seminars and to attend orientation and refresher courses to update themselves. It also encourages to publish their research papers in National and International events.

Management also delivers motivational talks on special occasions.



Faculty members are encouraged to represent in various academic bodies in Universities and other organizations. Faculty members are encouraged to represent in various academic bodies in Universities and other organizations.

#### 6.1.6 How does the college groom leadership at various levels?

- The management of college is liberal and democratic in character. Faculty members are the conveners of various committees to co-ordinate and monitor various activities of the college.
- College authorities appoint the Head of the Departments to take up the role of departmental administration and academic head. All teachers take various curricular, co-curricular and extra-curricular responsibilities.
- Total functional freedom is given to the coordinators of all committees to manifest out the leadership qualities among the faculty members. Students are groomed for leadership through students' council, NSS, NCC and various associations.
- The student's leadership is groomed through the Student Council which is formed every academic year. For each class, a class representative is selected, all class representative are the members of Students Council. They elect one student as University Representative. He/She works in coordination with cultural committee for planning and implementation of various functions such as Teacher's Day Function, farewell function social gathering and other extra-curricular activities.



- Students prove their leadership qualities by organizing various functions, events and celebrations like welcome function, Shardsava, YUVA Mahotsava, Self governance etc.
- Students are felicitated for their spectacular success and remarkable achievements on the eve of Republic day.
- Alumni Association helps to groom the leadership at various levels.

**6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?**

- The college provides autonomy to the Heads of Department regarding the assignment of workload to faculty members, academic planning of the department, organization of departmental co-curricular activities such as educational visits, organization of Guest Lectures, assigning projects, internal assignments and seminars as well as organization of departmental workshops. Utilization of allocated budget as per the requirements is also looked after by Heads of Department.
- Each department has full-fledged liberty for the fund utilization.
- Decentralized governance is ensured through various administrative assistance committees.
- For the development and governance, the authorities have appointed and empowered the faculty in-charge and Heads of department. The Faculty In-charge have adequate autonomy on the matters such as preparing admission schedule, preparing the time table of respective faculty, academic audit of teachers, preparing internal examination schedule and other administrative matters.



**6.1.8 Does the college promote a culture of participative management? If “yes”, indicate the levels of participative management.**

Yes. The college promotes a culture of participative management.

- Local Management Committee (LMC) is constituted as per the Maharashtra University Act. Three teachers and one non-teaching staff members represent LMC.
- Yes, the college is committed to a culture of participative management. The Principal, Faculty In-Charge and IQAC Coordinator is for academic and administrative leadership of the college. The IQAC meets periodically to discuss the points related to the policy and developmental plans. IQAC sum up of academic and co-curricular matters for the preparation of Annual Quality Assurance Report (AQAR).
- The faculty members are involved in the decision making process during the meeting of staff council, the council of heads and the IQAC. The coordinators of various committees also have involvement in the decisions and deliberations of the meeting.
- The important suggestions regarding college development are conveyed by Principal through regular staff meetings. The regular meetings of students’ council are organized with a view to obtain feedback and suggestions from the students for better implementation.

## **6.2 Strategy Development and Deployment**

**6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

With the formulation and establishment of IQAC, a defined quality policy is emerging, which up till now was amorphous and implicit. The policy is proposed by the IQAC on the basis of Total Quality Model, with due moderations so as to place learner and his/her social context in the central focus, succeeded by the employee. The formal statement of this policy shall be put-up for display in various ways as and when the Governing-Body accepts and endorses the same.



**6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.**

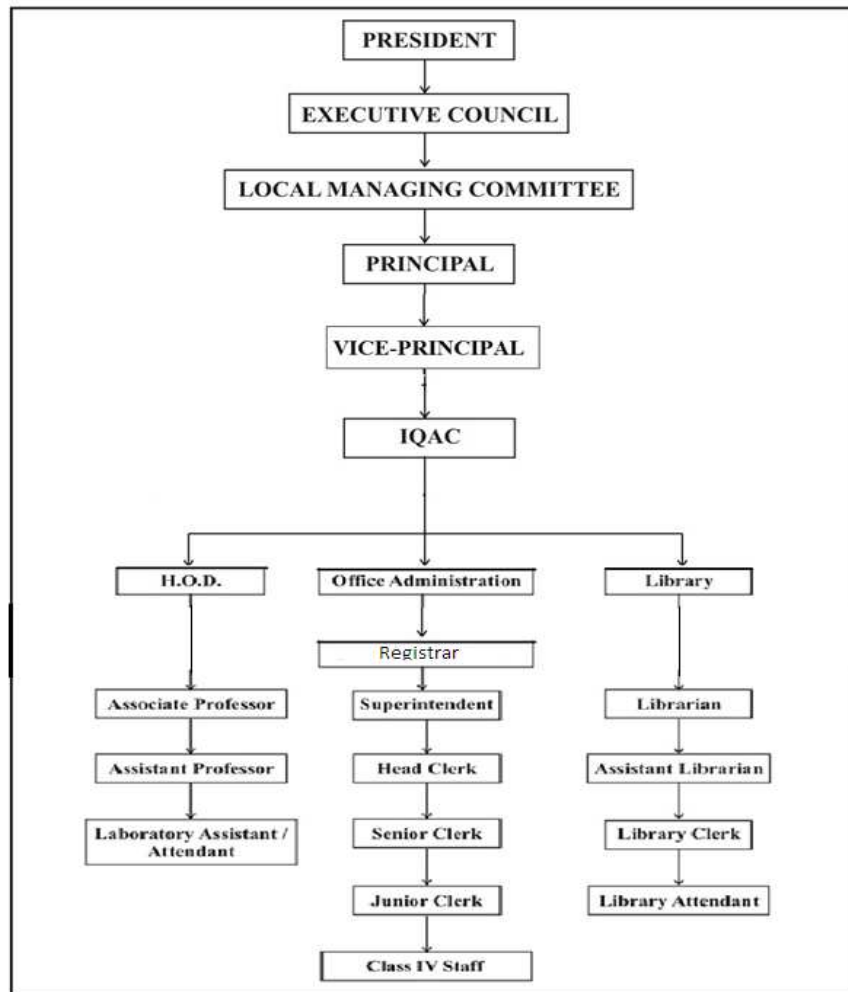
Yes. The college has a perspective plan of development which was developed a few years ago. This plan has been reviewed as per the needs of learners and in keeping with the higher education policies of the nation. The aspects considered for inclusion in the plan are as follows:

- Growth in terms of academic programmes that focus on skill based education. e.g. Bachelor of Vocation (B.Voc.)
- Need for strengthening core/traditional subjects.
- Formalize “Systems and Procedures” and “Policies” for research, infrastructure etc., communicate them to stakeholders and implement them.
- Establish the linkages with research institutes/industries.
- Upgrade research laboratories for enhancing research work.
- Seek recognition for higher learning and research center for more subject.
- Automation of library services and digitization of very old manuscripts.
- ICT is now playing a key role in information dissemination and is a basic requirement for every learner.
- Promote extensive use of ICT in all academic and administrative transactions.
- Awareness campaigns for zero waste campus model, e-waste management, energy audits, safety audits, addressing gender issues and aligning our activities with social needs.
- Upgrading the physical infrastructure in terms of water resources, power supply and modifications/ repairs. Maintenance of laboratory working tables and storage facilities in the laboratories for students.
- Strengthening the Science laboratory through purchase of new laboratory equipment and ICT facilities.



### 6.2.3 Describe the internal organizational structure and decision making processes.

The internal organization structure of the institution is as follows:-



#### Decision Making Process:

- The president of the parent society has a pivotal place in the decision making process.
- The executive committee authenticates the policies and programme of the institution.
- The policies regarding the quality enhancement, the financial support and its implementation are decided by LMC.
- The Principal is empowered to take decision on academic and administrative matters.



- The staff council is empowered to advise LMC and the Principal on matters related to the internal management, discipline and improvement of the academic efficiency of the college.
- The Principal along with the Vice-Principal, IQAC, HOD, Librarian and coordinator of various committees plan and monitor all the academic and administrative activities.
- The office administration takes due care of all the administrative matters pertaining to the faculty and students.
- Extracurricular activities are planned in consultation with students' council.

A few other Committees are constituted by the Principal directly such as Committee for ICT, Committee for Yearly Budget Projections or a few others as the need arises. The Committees discharge their function as evident from their name. Various actions are initiated by these committees and recommendations submitted to the Principal for approval and action. The Committees directly perform, monitor, and/or supervise the teaching and non-teaching staff in the area of their work. The Principal supervises and facilitates the work of these Committees, which are accountable to Principal on day-to-day basis and finally to Staff Council. As per the rules, in certain cases, sanctioning authority is Treasurer, Chairman, or Governing Body, upon due forwarding/ recommendation from the Principal. The procedures involved are clearly defined in the relevant statutes of the University, and are followed. With the formation of IQAC, the structure will have another source of inputs and suggestions, and another dimension of monitoring the system shall get added.

#### **6.2.4 Give a broad description of the quality improvement strategies of the Institution for each of the following:**

##### **➤ Teaching & Learning**

The quality improvement strategies adopted by the college for teaching and learning are as follows:

- Student Orientated Approach





- Maximum use of latest learning resources
- Library is enriched with text books, reference books, periodicals, journals and e-resources.
- Providing ICT facilities
- Enriching innovative teaching learning processes
- Special guidance to the weak learners and meritorious students
- Providing special support to the poor, the needy and the physically disabled students
- Strengthening feedback mechanism
- Deputing the faculty for training programmes, orientation and refresher courses and
- Faculty Development Programmes
- The performance of faculty is evaluated through PBAS.
- Guest lecturers of eminent faculties from other institutes are arranged.
- Motivating and supporting the faculty and the students to undertake research projects
- Encouraging the faculty to update their knowledge through participation in seminars, workshops and conferences
- Providing adequate infrastructure
- Introducing add-on, certificate, value added and vocational courses
- Organizing seminars, workshops and conferences
- Analyzing results for improvement

➤ **Research & Development:**

The college has a research committee which coordinates all research activities undertaken by the faculty in the college. The chairman of the research committee appointed by the Principal supports and guides the faculty to undertake major and minor research projects. He also prepares proposals for different schemes funded by



various funding agencies such as UGC, DBT, BRNS, CSIR and DST. The college appoints an Academic Research Coordinator who supports and encourages the faculty to undertake research activities and coordinates with BCUD, RTMNU, Nagpur. The steps and initiatives taken by the college to improve the quality of research are as follows:

- The departments of Physics, Chemistry, Computer Science, Electronics and Commerce are recognized centers of Higher Learning and Research.
- Most of the faculty members are supervisors. The college provides all possible infrastructural and instrumental facilities to the faculty and researchers.
- Establishment of Central Facility Centre (CFC)
- Encourages the faculty to undertake major and minor research projects
- Motivating the students to undertake research projects by providing a separate research budget
- Organizing State, National and International seminars, workshops and conferences
- Encouraging the faculty for publishing books, articles and research papers
- Deputing the faculty and students to participate in seminars, workshops and conferences
- Establishing MoU/collaboration with research institutes of National/International repute
- PG Students are motivated to involve in research activity through projects
- Seeking support for expertise from various fields

➤ **Community engagement**

The vision of the founders of the college is the torch bearer for all the teachers and students – viz. using the power of knowledge for the benefit of society. The college always looks for opportunities to modify and improve the extra-curricular/extension activities for the benefit of the community. Some of the initiatives in this direction are as follows:

- Establishment of “Social Outreach Centre” dedicated for conducting and addressing social issues and community networking.



- Learning about communities and social issues through field based surveys.
- Providing necessary support in terms of infrastructure and finance for such kind of engagements.
- Publication of reports based on surveys and audits.
- Collaborate with NGOs for community engagement.

In addition the NSS unit organizes a winter camp in a nearby adopted village. As a part of the camp, students conduct surveys related to rural development, drinking water, health, girl child education, socioeconomic studies etc. Students from NCC, NSS and other volunteer groups conduct several programmes for the benefit of the society like Blood donation camp, Aids awareness, Gender sensitivity, etc.

➤ **Human resource management:**

- Human resource management is the fundamental commitment for the academic development of the college.
- The recruitment of teaching and nonteaching staff is strictly as per the rules, regulations and reservation policies of state government and University.
- The time bound promotions are given to faculty members on the basis of PBAS and API.
- The various programmes are organized to train and create highly skilled human resource. Organizing free health check-up and health awareness programmes for the faculty and the students
- Organizing blood donation camps
- Organization of workshops on women empowerment
- Organization of personality development programmes.

➤ **Industry interaction:**

The efforts made by the college towards a fruitful interaction with industries are as follows:

- The Institution has MoU with some industries.
- Organization of job employability training programme in association with TCS and other companies



- Organization of campus interviews through the placement cell
- Seeking support from the alumni working in various industries
- Developing software as per the needs of industries, retailers through student research projects.
- Organization of expert lectures from industries
- Organizing industrial visits and study tours

**6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc?) is available for the top management and the stakeholders, to review the activities of the institution?**

The Principal follows a special mechanism to make the information received through feedback and personal contacts available to the top management and the stakeholders. To welcome suggestions from the students, the suggestion boxes are also placed at certain places on the campus. These boxes are opened periodically to review their suggestions. Suggestions on the effective implementation of the college activities are invited from the faculty as well. The Principal holds periodic meetings with the Local Managing Committee to discuss suggestions received from the stakeholders and necessary action is taken by him in consultation with the Management and LMC members. He also takes a review of the activities organized in the college in his meetings with the Vice principals, the heads of departments, activity coordinators and faculty. Suggestion Boxes are placed at prominent locations in the campus. This is a continuous source of suggestions for improvement of infrastructure and services. The concerned sections/departments/ persons are informed about their feedback for improvement or for encouragement and appreciation.



**6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

- The staff is entrusted the responsibility for different tasks such as college admissions, examinations, document verifications, form collection for scholarships.
- The faculty members are involved in the various academic and administrative committees and there is always a representation and support of the non-teaching staff for all these activities.
- The teaching staff member is honoured by giving awards for their valuable contributions.
- Non-teaching staffs are always felicitated for their achievement in staff meetings.

**6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

The following table shows the resolutions made by the management council and the status of their implementations in the last year:

<b>Resolutions</b>	<b>Status of implementation</b>
I. Annual report of the college for the year 2016-17	Approved
Earn/medical leave granted to teaching and non teaching staff.	Approved
II. Required teaching and non-teaching faculty to be recruited.	Approved
III. Appointment of contributory / adhoc / fixed remuneration basis teaching staff.	Approved and implemented
IV. Approve the vacancies of teaching and non-teaching staff granted by Joint Director, Higher Education Nagpur division, Nagpur.	Approved
V. Regular appointment of teachers for non granted UG and PG courses.	Approved and implemented
VI. To repair electrical fittings in the classrooms	Approved and implemented
VII. To have meeting of Canteen Contractor with College Canteen Committee including designated GB members for improvement of food.	Approved and implemented
VIII. Mrs. Vandana Kharabe, Member of GB to be	Approved and implemented



on 'Prevention of Sexual Harassment at Work Place' Committee.	
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**6.2.8 Does the affiliating university make a provision for awarding the status of autonomy to an affiliated institution? If “yes”, what are the efforts made by the institution in obtaining autonomy?**

Yes. The university has a provision of according autonomy status to affiliated Colleges. We are planning to proceed for autonomy.

**6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

Yes. The college has formed a Grievance Redressal Cell for the faculty and the students to address their grievances and complaints and resolve them. The cell is headed by the Principal. The mechanism to deal with grievances and complaints is as follows:

- Principal and Vice-Principal resolve the issues of staff, students and parents which require immediate attention.
- The college has Grievance Redressal Cell for the stakeholders.
- The grievances are attended promptly by the cell.
- The committee meets once in a month to discuss and resolve the grievances, if any, promptly.
- The Internal Complaint Committee is constituted under “Sexual harassment of women at workplace and its prevention -Act 2013”.
- The Principal has formed a separate committee to prevent women harassment and to look into grievances from girl students.



**6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

No case has been filed against the institution or by the institution.

**6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If “yes”, what was the outcome and response of the institution to such an effort?**

Yes. The college has a feedback mechanism for receiving and analyzing the student feedback on the various activities organized in the college. The IQAC has designed a feedback form on curriculum, the performance of the faculty, library services etc. The student feedback is collected once in an academic year. The collected feedback is processed by the feedback committee and faculty-wise observations and analysis are communicated to the Principal. The Principal takes necessary decision and instructions are given to the concerned faculty through the heads of departments. Moreover, the student feedback on the curriculum is collected at the level of the department and sent to the Chairman, Board of Studies for consideration and further action.

### **6.3 Faculty Empowerment Strategies**

**6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?**

The college makes sincere efforts to enhance the professional development of its teaching and non teaching faculty. Efforts made by the college are as follows:

- The college organizes workshops for teaching faculty to improve teaching methodology.
- The faculties are motivated to organize and participate in the conferences, seminars and workshops for updating knowledge of their respective subjects.



- The faculties are encouraged to avail the facility to attend the orientation programmes, refresher course, short-term courses and to pursue research for their professional development.
- Faculty members are motivated to submit the proposals for major and minor research projects, career oriented courses to the different funding agencies to nurture professional skills.
- Non-teaching staff members are also deputed to attend training programme on e-scholarship and online administration.
- The college also organizes a training programme on the office management and performance development of non-teaching staff.

### **6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

The college is committed to the empowerment of the faculty through various programmes as given below:

- The IQAC of the college organized one day National Seminar on Institutional Quality Improvement –“Reassessment of NAAC: Reassessment a time for institutional introspection.”
- A course on “Effective Communicative Skills in English and Personality Development” was designed and effectively implemented for the faculty by department of English
- All the departments of the college are provided with the facility of internet connectivity in order to make the teaching learning process more effective.
- Also faculty members are encouraged to pursue their field of interest for research, writing, and other academic activities. College provides enablers in the best possible ways to facilitate them, within available resources.
- Similarly, for non-teaching staff, whenever there is a requirement, University conducts orientation programmes or trainings, which the concerned employees of the College attend.





- The college organizes various training programmes for teaching and non-teaching staff to motivate the employees for their role and responsibility at work place. The college also deutes staff members to attend the various training programmes organized by other institutes/agencies.

**6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.**

- The college follows the “Performance Based Assessment System” prescribed by UGC in its regulations of June 2009. It also follows Academic Performance Indicator (API) system developed by UGC, New Delhi. The faculty is evaluated on the basis of Academic Performance Indicator (API) submitted to the office at the end of every academic year. These APIs are evaluated by IQAC and then submitted to the Principal. The IQAC plays a significant role in reviewing the organization and implementation of various academic and other activities in the deliberations of IQAC meetings. Coordinators deputed by the Principal to organize curricular, co-curricular and extra-curricular activities submit their reports to the Principal at the end of every academic year.

**6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?**

- Academic Performance Indicator reports are collected by IQAC for verification. The Principal reviews these reports containing the contribution of the faculty in teaching, learning and evaluation, co-curricular and extension activities, academic and professional developments and their research activities. Apart from this, the confidential reports of each faculty are submitted by the heads of departments to the Principal for information and necessary action. On the basis of score of the faculty in API, the Principal forwards the eligible cases to Joint Director of Higher Education, Government of Maharashtra for Career Advancement Scheme.



The outcome of the review of API performance is:

- Improvement in the overall performance of the faculty
- Improvement in the research caliber of the faculty
- Better results
- Increase in number of research and book publications
- Overwhelming Participation of the faculty in seminars, conferences and workshops
- Academic improvement of the faculty
- Increase in number of major and minor research projects
- Strengthening the student-teacher relationship

**6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four years?**

There are welfare schemes available for teaching and non-teaching staff, which are as follows:

- The college has employee's credit co-operative society which offers loan for various purposes up to Rs. 2.00 Lac plus Rs. 15,000 as an emergent loan at minimum interest rate. Till date, **55** teaching and **48** non teaching staff is members of the cooperative society. 100 members have availed financial assistance.
- Facility of Group Medical Insurance apart from EPF and gratuity fund is available for all staff members.
- Admissions are given to the wards of teaching and non-teaching staff on priority basis.
- Provision of Medical reimbursement/ Maternity/Paternity leave for staff members as per state government rules.
- College arranges free health check-up camp regularly for all staff members.



### **6.3.6 What are the measures taken by the Institution for attracting and retaining Eminent faculty?**

The measures taken by the college for attracting and retaining eminent faculty are as follows:

- Fair and transparent recruitment process
- A well qualified and experienced teaching staff appointed as per UGC and Govt. norms
- Wide publicity to 25 UG and 18 PG programmes taught in the college
- Tradition of the excellence fostered by the college
- A premier institute for higher learning with well discipline
- Creating and maintaining academic ambience
- Providing platform for creativity and research
- Opportunity to participate in various welfare programmes and activities

The ambience, vibrant student population, work culture, freedom, the opportunity to explore, good academic and research infrastructure are some of the distinctive characteristics of the college.

## **6.4 Financial Management and Resource Mobilization:**

### **6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

- The college gets financial support from different agencies and makes budgetary provision under different heads and the budget is approved by Local Management Committee (LMC).
- The transaction in accordance with the budgetary provisions is carried out by way of tenders, quotations, comparative statements and approval of purchase committee.



- The College has an internal audit mechanism to monitor effective and efficient use of available financial resources. The utilization of the budget is regularly monitored.
- The college maintains separate cash book and ledgers under different heads. Every transaction is supported by vouchers and cashbook. All the collections are deposited in the banks regularly.
- Monthly reconciliation of Bank Account.
- A purchase committee ensures that correct equipment with right specification is procured at the best prices.
- The college maintains separate cash-book and ledgers under different heads. Every academic department maintains stock book of consumable and non-consumable items. Every transaction is supported by vouchers and cash-books. All the collections are deposited in the bank regularly.

**6.4.2 What are the institutional mechanisms for internal and external audit?When was the last audit done and what are the major audit objections?Provide the details on compliance.**

- The college has internal and external audit mechanism.
- The internal audit is carried out by the the chartered accountant appointed by the management.
- The external audit is carried out by Senior Auditor and Accountant General of Maharashtra State. Assessment of disbursement of salary and non-salary grant is carried out by Joint Director Higher Education, Nagpur Division.
- Last external audit was done on 22/07/2016 and there were no objections to this audit.



**6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.**

The major sources of institutional receipt/funding are

- \_ Fees collection from students
- \_ Grants from state government
- \_ UGC grants
- \_ DST grants
- \_ Interest on Corpus/Reserve Fund.
- \_ The deficit if any is managed from the advances by parent society.

The details of audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus is furnished in **Annexure-VII**

**6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

The institution explores alternative sources of additional funding. The following are some of the efforts made towards securing additional source of income.

- Research lab fee is collected from the research student which is utilized for maintenance of the research laboratories and promoting research activity.
- Infrastructure is made available for external agencies to conduct examinations such as Bank recruitments, UPSC, MPSC, NET/SET/DRDO/ Staff Selection Commission etc.
- The additional fund is generated through Alumni Association. The additional funding received as above is utilized for the development of infrastructure and students' welfare.



## 6.5. Internal Quality Assurance System (IQAS)

### 6.5.1 Internal Quality Assurance Cell (IQAC)

- a) **Has institution established an Internal Quality Assurance Cell (IQAC)? If “yes”, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

Yes. The college has established IQAC in 2004. Quality sustenance and enhancement has become integral part of institutional system for conscious, consistent and catalytic involvement in the quality for channelizing all efforts and measures of the institution to achieve academic excellence. It promotes quality culture in consonance with stated mission.

IQAC plans and monitors the academic activities:

- To promote ICT in Teaching, Learning and evaluation Process.
- To encourage Research aptitude and to submit research proposals to various funding agencies.
- To introduce New Programmes
- To organize Conferences/Seminars/Workshops
- To inculcate soft skills/communication Skills
- To organize placement drive
- Overall evaluation of system through feedback
- Assessment of the faculty through API under PBAS
- To organize training programme for Teaching/Non- teaching Staff.

- b) **How many decisions of the IQAC have been approved by the management/ authorities for implementation and how many of them were actually implemented?**

The decisions of the IQAC which are approved and implemented by the management are:

- Modernize the class room with ICT facility, Smart Boards,



- To enrich the laboratories to seek recognition as a centre for Higher Learning and Research
  - Proposal to install solar panel, LED bulbs in Building.
  - Automation of library with computer laboratory.
  - To update the web-site to make it more attractive, informative and user friendly.
  - Implementation of teacher's diary and academic audit of all teachers.
  - Major and minor infrastructural changes in the laboratories for their effective utilization.
  - Accepting of specific process followed by IQAC with reference to scrutiny and validation of API score of teachers.
  - Modernization of classrooms and laboratories with ICT facilities.
  - Organization of national and international conferences and seminars.
- c) **Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.**

Yes. external member nominated on IQAC are Shri. Tushar Padgilwar Agro Industries Pvt. Ltd. and Shri Pradeep Wasu played an important role in quality development activities. Dr. Dharmadhikari, being a Peer Team Member of NAAC has visited various institutes across the country and Dr. D. K. Agrawal , Director BCUD, their experience helps the college in its development at various levels.

- d) **How do students and alumni contribute to the effective functioning of the IQAC?**

The students and alumni give their effective feedback and valuable suggestions for quality improvement in academic excellence of the college through their IQAC member representatives. For this purpose, IQAC organizes the meetings of student's council and alumni for receiving the responses from them.



e) **How does the IQAC communicate and engage staff from different constituents of the institution?**

The IQAC is responsible for monitoring all the academic, co-curricular and extra-curricular processes. The IQAC communicates with college constituted committees, NAAC criteria-wise committees and evaluate their performance in the form of reports submitted by them for the preparation of AQARs. IQAC communicates through notices and SMS regarding the meeting..

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If “yes”, give details on its operationalisation.**

Yes. The College has an integrated framework for quality assurance of the academic and administrative activities. The details on its operationalisation are as follow.

- IQAC prepares strategic long term and short term plans that include all the academic and administrative activities.
- Plans and strategies for implementation of academic activities are discussed in the council of heads of departments.
- Principal permits the staff members/ Convener of various committees for implementation of academic activities and monitors it through IQAC as per schedule of Academic Calendar/ Calendar of Event.
- Staff Council takes a review of all the academic activities and makes suggestions if any.
- Administrative and academic activities are reviewed by LMC in the LMC meeting.
- All the decisions in respect of academic and administrative activities are executed by Principal.
- Academic and co-curricular activity calendar is prepared at the beginning of each academic year. College constituted committees and Heads of Department take all the necessary steps for successful implementation of the calendar and provide reports to the IQAC.





**6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If “yes”, give details enumerating its impact.**

Yes. The college organizes various programmes viz. workshops / seminars /conferences through IQAC on quality assurance. This helps to enhance skills, working ability, research aptitude etc. among the staff members.

- Training for non-teaching staff with regard to laboratory procedures and safety in laboratory.
- Interactive sessions on guidelines of UGC and the State Government with special reference to filling of API formats, calculation of API score, etc.

**6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If “yes”, how are the outcomes used to improve the institutional activities?**

Yes. The Principal along with IQAC coordinator conducts the academic audit of all the departments and take the review of all academic activities including course covered, result analysis, students’ attendance, micro planning of teaching-learning, extension, research and co-curricular activities. The suggestive measures are discussed with the staff members for improvement, if any. Outstanding performance of the staff/department is duly appreciated.

**6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies regulatory authorities?**

- The college IQAC has constituted the committee for all the seven criteria in line with the requirement of NAAC. These committees monitor the working of college constituted committees in order to fulfill the objectives prescribed by NAAC for the preparation of Annual Quality Assurance Report (AQARs) and Self-Study Report (SSR).



- Being the member of Asia Pacific Quality Network (APQN), the college is connected with International Quality Network (IQN).
- The college has constituted the committees for all the seven criteria in line with the requirement of NAAC. These committees fulfill the objectives and inculcate the core values prescribed by NAAC in its Manual for Self Study Report (SSR).
- Participative teaching-learning process and development of course material in the form of PowerPoint presentations and use of e-resources for classroom teaching.

**6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

- Academic Calendar, Calendar of Events and Teaching schedule (Time Table) is prepared and discussed in the council of Heads and approved in meeting of staff council which is then communicated to the students and the staff.
- Heads of all the departments distribute the workload and syllabus in the departmental meeting. The individual teachers prepare micro plan for teaching and implements accordingly. The schedule of micro planning for topic to be covered in each unit is displayed on departmental notice board.
- A record of attendance and daily diary is maintained regularly. Individual teachers complete the course curriculum within the stipulated period and heads of the departments take review of the course covered from time to time.
- The internal assessment of the students is carried out through oral, unit, surprise tests, home assignments, seminars, attendance etc. as prescribed by the University for newly introduced semester pattern.
- The remedial coaching classes and/or extra classes are arranged to take care of slow learners.
- Academic audit is conducted by IQAC to take the review of academic activities and suggest the corrective measures.
- The college use students' feedback to ameliorate teaching-learning process.



**Outcomes:**

- Improvement in teaching-learning process.
- There is an improvement in attendance of student in class.\
- Performance of students is improved in University examination.
- Improvement in the progress of slow learners.

**6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

The college communicates quality assurance policies, mechanism and outcome to the various internal and external stakeholders by means of prospectus, web-site, magazine-Kamalgandha, Kamalwani, publicity in electronic and print media, parent-teacher meet, alumni meet, E-mail, notice board, felicitation of meritorious students, Kamla Nehru journal science and technology and welcome address by Principal etc.

**Any other relevant information regarding Governance, Leadership and Management which the college would like to include:**

The institution communicates its quality assurance policies, mechanism and outcomes to stakeholders through general staff council meetings, meetings with Head of the Departments, meetings with NAAC Criteria Co-coordinator and college constituted Committee Coordinator. It is also communicated through notices and circulars.

- Under XII plan, a separate grant is received for IQAC from UGC
- Biometric system is installed in the college to monitor staff attendance.
- Extensive outreach programmes are arranged.
- Secretary of Amar Sewa Mandal Adv. Abhijit Wanjarri elected as Senate Member three times in the RTM Nagpur University Nagpur. He was member of Management Council of RTM Nagpur University, Nagpur. The advantage of this contribution to the college for implementation of policies of University in the college easily.



- If there is financial problems with the faculty members, can be sort out due to Govind Urban co-operative society. Adv. Abhijit Wanjarri is the Chairman of Govind Urban Co-operative Society, Nagpur.



**Criterion VII:**  
**INNOVATIONS AND**  
**BEST PRACTICES**



## **CRITERION VII:**

### **INNOVATIONS AND BEST PRACTICES**

#### **7.1 Environment Consciousness**

##### **7.1.1 Does the institute conduct a Green Audit of its campus and facilities?**

Yes, Kamla Nehru Mahavidyalaya conducts Green Audit at the levels of energy conservation, water conservation, waste management and pollution control. Faculty and students from department of Environmental Science and Botany undertake the audit.

During the last four years, the Department of Sociology, Biotechnology, Biochemistry, Microbiology, Botany, Zoology and Environmental Science actively contributed in spreading environmental awareness through the activities like 'No Vehicle Day', rainwater harvesting, observation of World Water Day, cleanliness, etc.

College campus is plastic and tobacco free.

The units of NSS and NCC regularly undertake tree plantation program at college campus. Though the college has very little space to plant trees, it constantly attempts to take care of the eco-system like birds, trees and plants on the campus.

Classrooms, laboratories, library, reading halls, offices, departments, hostels rooms and washrooms have sufficient ventilation and sunlight, which result in minimum use of electrical equipments like fans and lights.

##### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

###### **Energy Conservation**

The college has a big number of electronic and electrical equipments such as computers, LCD projectors, tube lights, CFLs, LED etc. For efficient use of electricity, various means like notices, oral instructions and awareness programmes



like lectures on 'Energy Conservation' are used so that the importance of conservation of energy would be inculcated among students and employees. The college makes use of energy-efficient Compact Fluorescent Lamps (CFL). Tube lights are being replaced by CFL and their number has reached 279 while the number of tube lights is 218. Besides, the College Hostels has 24 solar panels for water heating.

#### Use of Renewable Energy:

The use of renewable energy like solar energy is done at college hostels. The details are as follows:

Sr.No	Hostel	Solar Panels	Capacity	Make
01	Girls' Hostel	24	4,000 Liters	TATA

#### Water Management:

##### Initiatives taken for Minimizing the Use of Water: -

- 1) First we have identified areas where maximum use of water is done like Girls' Hostels & watering the lawn on playground in front of girls hostels.
- 2) Minimize direct supply of water to bathrooms in the hostels. Students have to fetch extra water to bathroom from a tap outside the bathroom. It ensures the minimum use of water.
- 3) Everywhere press taps are used to receive water & thus wastage of water is avoided.
- 4) For lawn, early morning and evening timings are sought to water the lawns in order prevent loss through evaporation.
- 5) In every departmental laboratory, small taps are used.

**Rain Water Harvesting Project:** The area in which Nagpur is situated suffers from drought conditions frequently. As this region comes under shadow zone, it faces the problems of low rainfall. It receives average rainfall of 700mm only. The frequent conditions of scarcity of water compels for best management of available water. As a result, Rain Water Harvesting unit is established in the college. The Rainwater Harvesting & Water Management programme in Kamla Nehru



Mahavidyalaya Campus is one of the ideal projects of Rainwater Harvesting in this region. Kamla Nehru Mahavidyalaya has total 1.82 hector of land area; hence if there is average rainfall of 600mm, the total amount of harvested rainwater in groundwater is 3.3 million liters. In campus, roof water harvesting in particular building is carried out. Roof water is collected in horizontal pipes & all the pipes are connected to a large pipe (10 inch) that carries water on ground surface so that it reaches towards pits. The recharge pits are developed in parking areas. On the days of high rainfall up to 80 to 90 mm per day water is harvested in the pits. The surplus water increases pressure due to which, water goes into rocks through cracks & joints present in subsurface rock. It is the reason that there is no overflow of rainwater, due to high subsurface rocks porosity. So in this process all roof rainwater is directly percolated in subsurface of rocks. In this way, groundwater potential & water table of the area is increased. For this purpose we have divided total campus area into three parts depending upon slope of surface. According to this method, three recharge pits are constructed having size of 5x5x6 feet. They are filled with boulder at the bottom, metal up to 3 feet above and then granulated sand for 3 feet making it a filter bed. In this way, the college saves 3.3 million liter waterin college campus per year.



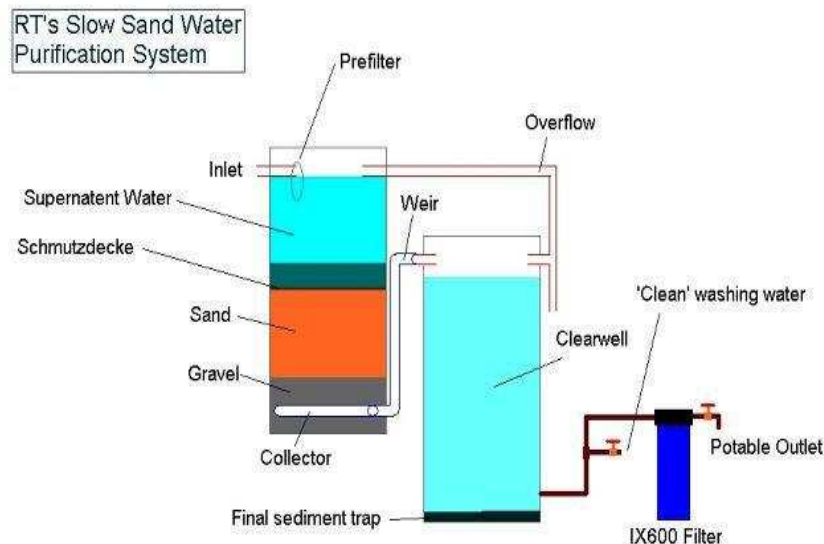
**Fig - Recharge Pit of 5x5x6 feet**

This is one of the best ideas for Rainwater Harvesting plan in our region. Large number of common people, school children & researchers also visit the college to see this plan.



### Purification of Water:

In Kamla Nehru Mahavidyalaya Campus every day, the daily requirement of water is 30000 liter for drinking purpose. To provide purified water to all staff member & students, a water purification plant has been established. It purifies 1500 liters of water per hour and it works for twelve hours per day thus providing 30000 liters of purified water to all staff and students.



### Efforts for Carbon Neutrality:

The college takes all possible efforts to bring carbon neutrality. Our college premises is a zero carbon emission campus as we do not use refrigerators, air conditioners and other carbon emitting equipment beyond the permitted scale and point. Parking slots are located close to the entrance of the college. The carbon emissions tests are regularly conducted on vehicles of staff and students by the staff and students of Department of Environment Science. Also emission test certificate is mandatory for the vehicles of college and staff issued by Road Transport Office and verification care will take by environment department. Plastic bags are strictly banned in the college campus and in canteen. Instead of plastic cups, we use paper cups and paper plates for tea and snacks. Cigarettes and tobacco products are strictly banned in the campus.



**Plantation:**

To generate a culture of love for agriculture, the College takes initiative to engage students in cultivation of plants under the auspices of the department of Botany.

Following are the details about the vegetation

Type	Trees	Shrubs	Lawns	Potted Plants
Number	55	99	01	130

College outsources the services to look after the lawns, shrubs, trees and plants on the campus. Besides this, NSS unit assigns duties to its volunteers to look after trees

**Hazardous waste management:**

The College does not offer courses using chemicals and compounds with high risk of intensity and side effects. Neither is there the use of radio-active substances. Therefore, the question of hazardous waste does not arise at all.

**E- Waste management:**

Currently the College is in talk with the ICT equipments distributors regarding the management, disposal and recycling of e-waste at college campus. The quantity of the e-Waste is negligible.

**7.2 Innovations:****7.2.1 Give details of innovations introduced during the last four years, which have created a positive impact on the functioning of the college.**

It has been the part of constant efforts by college to provide necessary facilities and well developed infrastructure as to bring about learning friendly ambience in the college campus. Keeping this in view, the college has introduced the following innovations



**Innovations in Environment & Health Consciousness Awareness Activities:**

Feeders and water pots are set in the premises of college campus for birds and it has proved very helpful for birds to quench their thirst especially in summer. It is done by taking into consideration the large number of birds named common myna (*Acridotheres tristis*).

The area in which Kamla Nehru Mahavidyalaya is situated suffers from drought conditions frequently. Frequent conditions of scarcity of water compels for best management of available water. As a result, Rain Water Harvesting unit is in function in college harvesting 2, 00,000 liters of water every year. It accumulates water in the well from entire parking.

NSS unit organizes cleanliness programs for the Central Bus Station and Government Hospital. Three hundred volunteers take part in this activity every year. They not only clean the premises of the station and hospital but also undertake various activities in which they request passengers for clean and safer journey; they orient them on the importance of cleanliness & its advantages, etc.

College hostels use solar panels for heating water and thus reduce pressure on electricity. There are 24 solar panels with total capacity of 19,000 liters used for water heating in Girls' Hostel. It has resulted in reducing the pressure on electricity usage.

College has established a Health Centre with a visiting doctor. The doctor visits the Girls Hostel' on Sundays. Students from Girls hostels, teaching and non-teaching staff at college use the services.

Yoga Teaching Camps held at the College campus have been effective and received overwhelming response. As a result, College has regularized the activity.

Yoga Teaching Committee looks after the management of it.

<b>Following are the details of the activity during last four years. Sr. No</b>	<b>No. of programmes organized</b>	<b>In association with</b>	<b>No. of beneficiaries</b>
01	05	Institute of Yoga, Patanjali,	1490



**Innovations in Curricular & Co-Curricular Aspects:**

Central Research Laboratories for advanced scientific research has been enriched through the grants from UGC. Centrality does offer access to all the departments in the college. It is also proving helpful for the researchers from other colleges as well.

Commencement of degree courses like Bachelor of vocational in software development and Retail management has been an outstanding academic innovation on the part of the college. The course is approved by UGC and evaluated by NSQF bears the innovative features like academic flexibility where students have option to opt for career and it is not necessary to complete the course if the student desires to go for a job. Thus entry and exit to the course is free.

Career Guidance and Counseling unit especially organizes lectures for the guidance of students for competitive exams, like MPSC, UPSC and banking. It offers guidance to the college students on MPSC, UPSC and Banking exams. It frequently arranges free seminars on various issues related to the exams at college.

In order to provide opportunities to students for higher learning and research at post graduation level in the all subjects and faculties, PGs in the all subjects have been commenced. This initiative has resulted in fulfilling the demand of many students.

The college organized a special training event entitled **Motivational Bridge Courses in all the departments.**

**Innovations in Library Services:**

A Central Library with e-journals and photocopy facility.

College library provides e-resources in the form of online 560 E-books besides the repository of college on its website which includes E-books, video lectures and relevant study material.

College library gives best reader award for encouraging the student through National festival events.



College library also extends help to Senior citizens by providing books to the inmates of the home. This activity has been appreciated by the old people of the nearby areas.

### **Innovations in Research And Consultancy:**

The special facilities like photo spectrometer; FTIR TLD, etc. are available at Central Research Laboratory. The research committee that looks after the functioning of the lab also offer consultancy services like designing and implementation of electronic circuits, automation and testing and analysis of chemicals, plant extracts and other components for industries and research scholars from various institutes. In the last three years, the college could receive **Rs.1,61,150/-** from this consultancy services.

**Following are the details of the users from outside:**

Sr. No	Name of the industry/institute/individual	Equipments Used / Department	Amount Received
1.	Microtron Systems	PCB Designing Software	26,000/-
2.	Ketki Misar	Anti Microbial testing	6,750/-
3	Govt Ayurvedic College	Extraction of Herbs and formulation of cosmetic Product	7,000/-
4	Scholars and Project student	PL and TL characterization	15,600/-
5	Scholars and Project students	FTIR &UV- visible	14,800/-
6	G B Murarka Arts & Commerce College Shegaon	Consultancy for upliftment and upgradation of college for NAAC Accreditation and Assessment	10,000/-
7	Annasaheb Gundewar College	Consultancy for Quality Enhancement	8,000/-
8	ISRO	Translating bulletin in 'Marathi'	25,000 /-
9	Commerce	Ekvira Tech, Shree Sai Automobiles, Swapnameet Global services	48,000 /-
		<b>Total</b>	<b>1,61,150/-</b>

Intensive programmes are organized to train the teaching faculty in research and research methodology. The programmes aim at various skills to be inculcated



among teaching faculty. It includes orientation on formulation of minor and major research projects, effective use of e-resources, etc.

College encourages the collaborative research by faculty. Almost all the departments have received excellent outcomes out of the MoU signed for research collaboration. All the Departments come up with research papers published in national/international journals.

### **Innovations in Training & Professional Development:**

Intensive orientation and training programmes have been organized for teaching, administrative, library.

Teaching faculty		Administration & Library Staff	
No. of Programs	Beneficiaries	No. of Programs	Beneficiaries
3	175	1	57

### **INNOVATIONS IN EXTENSION ACTIVITIES:**

Adoption and economic help to drought affected areas. Most of the part of Vidarbha region is highly affected by drought. The scarcity of water brings about myriad difficulties. Efforts were taken by the NSS unit of the college to help nearby villages by giving them suggestions regarding water conservation. The NSS unit has built a Check Dam for them

College initiated special efforts to spread the awareness about the increasing rate of female foeticide and the college conducted a National Conference on the same topic. The Women's cell took a lot of initiative in this.

### **INNOVATIONS IN MANAGEMENT & PLANNING:**

College does short term and long term planning and chalks out its plan accordingly. College designs its perspective plan for five years, which is prepared and implemented through the academic calendar every year. IQAC makes planning on quality enhancement issues.

The college has developed a face book page and website to manage information about various academic activities and personal academic record of teaching staff.



On the college website, all staff members furnish the information research activities and other personal academic achievements. The information can be categorized subject-wise or department-wise. It has resulted in effective management of information especially of staff's academic performance. It also saves paperwork and papers as well.

### 7.3 Best Practices:

- Additional Skill oriented and Job oriented Certificate courses to compliment regular teaching.
- Student Mentoring Program.
- Focus on Slow and Advance learners.
- Intensive workshops on attitude, aptitude and interview skills before placement drives.
- Provision of library services for Senior citizens.
- Open access, OPAC and M-OPAC of Library.
- Extensive organization of study tours, industrial visits and field visits.
- Regular organization of expert lectures on various topics.
- Free as well as paid consultancy services to citizens, institutions, industries and villagers in diverse areas.
- High quality research by teaching staff of National and International repute.
- Collaboration and Linkage with various National and International bodies.
- Feeders and water pots for birds on the campus.
- Excellent Support Services like Gymnasium, Health Centre, Canteen, etc.
- Online academic information collection & compilation system.
- Wall paper magazine publication.
- Various activities under study circles of different departments.
- Financial assistance to the projects of students.



- Special financial assistance to sports students.
- Felicitation of teachers on their successful completion of Ph. D. studies and academic achievements.
- Mahatma Gandhi and Pandit Jawaharlal Nehru study centre.
- Post graduate diploma in Human Rights.
- Yoga Camp, Self Defense Camp, Gender Sensitization Programs, celebration of important global days
- Corporate and Industrial Training
- Expert talks of National International Scholars



## TWO BEST PRACTICES:

### 1. Title of the Practice

**Mahatma Gandhi and Pandit Jawaharlal Nehru *Lecture Series***

### 2. Goal

Mahatma Gandhi and Pandit Jawaharlal Nehru study centers is one of the prestigious activities of the college that received overwhelming response from citizens of the city, students, staff and other stakeholders. The major aim of the series is to provide a platform for the expression on thoughts and works of Mahatma Gandhi and Pandit Jawaharlal Nehru and their relevance in today's world. Year 2016 was the 4<sup>th</sup> year of the series. In the consecutive years, the issues and subjects addressed by many prominent personalities have enlarged the arena of goals and objectives of the series. Its success lies in right identification of such streamline of thoughts in social and political milieu that have influenced the course of time, history, social, political and educational structure. Following are the objectives of the series:





**Dissemination of Thoughts and Works of the Thinkers:**

The main aim of the series is to spread the thoughts and great works done by these thinkers. It becomes essential to introduce and reintroduce the importance and value of the thoughts of the thinkers.

**Discussion and Fruitful Outcomes:**

The college also aims at bringing about discussion of various issues related to the works of Mahatma Gandhi and Pandit Jawaharlal Nehru. The interactions with the invited speakers offer new insights to look at the history and result in positive understanding of the present situation.

**Seeking Relevance of their Ideas to the Present:**

The selection of issues and topics to speak on is done with fine precision in order to achieve a subtlety between the thoughts of the thinkers and current prevailing issues. What is valued in this regard is the relevance and interpretation of the ideas of the thinkers in relation with present social, cultural and educational issues.

**Inclusion of Broader Perspectives:**

The college however also aims at orientation of audience on various novel issues and subjects that are related to various social, political and academic structures. The emergence of new issues and series of events and activities needs to be given proper thought in a systematic manner. It has been stand for devotion, dedication, development and distinction.

**3. The Context**

There had been always discussions and talks on the thoughts of these thinkers in isolation. The need was felt for a fine connection among the thoughts and ideas of the thinkers who represented fairly dissimilar sections of the society. However, the aim and motto with which they worked had made tremendous impact on the lives of many. One has to understand the contribution of the thinkers by taking into consideration the works, thought and initiatives they took in various aspects. It is with this reason; the lecture series was established to understand the relevance of



the thoughts of the trio in the present. The impact of the thinkers on the educational, social, political and cultural milieu of Maharashtra is greater. The three holds the key position in the history of the Maharashtra and their thoughts have always been inspirational for the whole subject of the state. Keeping this view in mind, college decided to yoke together the mission and vision of the college and the ideas of the great thinkers and reformists to offer an expression on their work in an organized form. The subjects chosen for the series are very carefully selected keeping in mind their relevance were day to day life of the people. In the state of Maharashtra, these social thinkers have contributed a lot to the development of society and upliftment of the masses stuck in age long poverty, ignorance and social injustice and discrimination. The vidarbha region holds witnesses to the major work done by Mahatma Gandhi and Pandit Jawaharlal Nehru. It is his writings on various aspects of social injustice, ignorance, ideological structures that motivated by Mahatma Gandhi and Pandit Jawaharlal Nehru for welfare of his fellow beings.

#### 4. The Practice

College organizes the lecture series for three days every year. The committee is formed and it looks after the planning and execution of the series. The press notes have been delivered for the proper dissemination of information to the society. Due its significant management every year, the series is being recognized by every section of the society. Due to the proper dissemination of information, separate arrangements have to be made to accommodate the larger number of audience coming to attend the series. College organizes the event in the evening so, that students and citizens in the city can attend the programs. It also becomes easier for the office goers to attend the series

**Selection of Subject:** The selection of the topics and subjects are made by considering various issues like prevailing issues, tendencies, trends and major sociological, educational, economic and political changes. The repetition of the topics is avoided and various new outlooks and approaches are encouraged for the talk on the general issues.

**Selection of Speakers:** The committee that looks after the planning and preparation for the series remains always in contact with people outside of the



institution in order to seek consultation on inviting a right person to deliver her/his talks on the decided issues.

**Dissemination of the Information:** Banners are printed with the names and topics of the speakers and they are displayed in the premises of the college. Wide publicity is sought in the daily newspapers. Press conference results in wide publicity of the event.

**Role of the Management:** The participation and role of management in the organization of the event is encouraging. Members of management remain present for the series and also engage themselves in talk with the invited speakers.

**Schedule:** Three speakers are invited; each one of them presents her/his ideas on the particular scheduled day. Generally a speaker speaks for about one and half hour.

## 5. Evidence of Success

The response to the series is overwhelming every year. It has not only proved fruitful in bringing about a platform to perform a proper presentation of the ideas and discussion on them but it has gained an authenticity as a prestigious activity of the college.

### One of the Most Acknowledge Lecture Series in Maharashtra.

The lecture series received acclaim all over Maharashtra. Due to the inclusion of variety of issues and speakers from vastly different fields, the series has held the significance on various levels. The participation of old people, members of different offices and students from the college and other institutes make the event more successful.

### Apt Selection of Subject Matters and their Relevance:

The credit of the success of the series lies in the selection of the subject and topic for the speakers to speak on. It becomes a thoughtful feast for the audience to listen to the thoughts of the speakers presented in systematic form by weaving the ideas of the thinkers and their relevance to the present specific issues. Some of the issues dealt with in the last three years are as follow:



Sr. No	Name of the Topic	Name of the Speaker
01	Vande Matram	Mr Vasant Giri, Buldhana
02	Principal of Mahatma Gandhi	Dr Damyanti Pandharipande
03	Mahatma Gandhi: Personality and work	Dr V S Jog
04	Need of thinking of Mahatma Gandhi	Dr Anant Advatkar
05	Discovery of India	Dr Arvind Khandekar
06	Development of India Before and After Freedom	Mr Shailesh Pande
07	Mahatma Gandhi and Village freedom	Dr Suresh Pandharipande

**Eminent and Knowledgeable Speakers:** Subject matters to prove very important in seeking the relevance of the talk and hold of audience's attention more than area of expertise of the speaker and vice versa. Most of the time, the strengths of the speakers with their outstanding contribution in practical work towards society, education, research, politics, academics, organization, administration, etc.

**Resources required:**

- There is financial requirement which is met by the fund of Rs 7.5 lakhs provided by the UGC every year.
- Well ventilated and air conditioned seminar hall for frequently organizing the programs, which is available in the college.
- More number of faculty and students would be required to make the program successful.
- An attendant for assistance during the program with the team who conducts this program is also required.



**Contact Details: The Principal**

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**Best Practice: 2 Promoting scientific culture.**

**Title of the practice: Promoting scientific culture.**

**Goal:**

The 'Science study circle, of Kamla Nehru Mahavidyalaya, under the Institutional Social Responsibility, successfully carried some outreach activities for the society. The aim of the activity was to encourage the rural/urban school-children to take up basic sciences as their courses. The activity also intended to foster scientific temper and arouse curiosity among them.

**The Context:**

Though science and technology has become an integral part of modern society, the mindset of students in some backward areas regarding scientific temperament is not so developed. Educational institutions are the ideal places for promoting a scientific temperament and research attitude among the students through various science programs. In developing countries like India, science could play a major role in development by building scientific expertise, inculcating rational and critical thinking among the individuals which would directly lead to eradicating malpractices of superstitions, black magic and other social evils.

**The practice:**

A team of teachers —Dr Ashish Mahajan , Asst. Prof. in Physics, Mr Pravin Sontakke Asst. Prof in Electronic and few students of our college- Ku. Apurva Belsare B. Sc. Semester I, Ku. Dinesh kamdi and Ku. Prajacta Nimsarkar of B.Sc. III visited to Jiwan Vikas High School, Hatwangari, Teh.Maregaon and Dist. Yawatmalalong with science gadgets and instruments-microscope, petri plates, permanent slides on 20th of December, 2015. On this day, Dr Ashish Mahajan and



Mr Pravin Sontakke delivered a lecture entitled 'Science in Young Minds', which aimed at inculcating scientific attitude and interest in science among students of 10th standard. The lecture contained concepts of scientific ideas, science and its branches, career opportunities in life sciences, physical sciences, and earth sciences, fellowships for science students like National Talent Search, Kishore Vaigyanik Protsahan Yojana. The team also demonstrated the use of microscope, cultivation of bacteria in the laboratory, etc.

Dr Pradeep Dahikar has conducted several theoretical and practical sessions in Navpratibha High School, Nagpur on career options in the field science, automatic electronic circuit development, etc.

### **Evidences of Success:**

After the lecture of about 40-45minutes, conducted interactive session with attending students. During the interaction, they got an overwhelming response and queries from students' side which indicated the aroused curiosity among them. Many of them seemed willing to opt for the science stream as their course. After the demonstration of scientific instruments, the team observed that children's faces were lit up as if they had got some-thing now. When students were asked to fill-up feedback forms. They gladly filled them up, and the positive feedback of the school children indicated the success of the program

### **Resources required:**

- Car, Laptop an LCD projector and all necessary e-resources for conducting lectures.
- Sufficient financial assistance is necessary to ensure that this practice is frequently carried out. This may help involve more number of faculty and students in the program.
- The team who conducts this program also requires an attendant for assistance during the program

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**Best Practice: 3**



**Promoting research Culture****Title of the practice: Promoting Research Culture****Goal:**

To strengthen Research activities in the institution.

**The Context:**

To strengthen the research activity in the institution the college planned for promoting the research.

**The practice:**

The IQAC of the college considered research promotion as the key issue as it was recommended by peer team during their visit and hence the Research Advisory Committee became very active to promote, enhance, facilitate and monitor the research activities. The committee motivated the staff members to propose the Minor/ Major Research projects to the different funding agencies. They were also motivated to publish research papers. The cash incentives have been given to the faculty for publishing the papers in National / International peer reviewed journals. Financial assistance is provided to present the paper in the conferences, seminars etc. The committee keeps informed the faculty members for the research related updates. Several faculty members have got recognition as Ph.D. Supervisor. As a mega step, the committee strived hard to get affiliation from RTM Nagpur University as a Centre for Higher Learning and Research, and Ph.D. program in the subjects Physics, Chemistry, Electronics, Computer Science, Maths, Commerce and has been started. 42 students are registered for PhD, 2 have been awarded and 3 have submitted. Besides, there is a Central Research Laboratory where advanced research activities are carried out.

Some senior faculty members are on the editorial board of Research Journals.

**Evidences of Success:**

- Good numbers of Minor Research Projects are funded by UGC and some Minor as well as Major Projects has been completed.
- As a result Number of Research papers have been published in the peer reviewed Journals and presented by the faculty members in the seminar, conferences etc.



- Every year several National conferences, seminars have been organized.
- Organizing Science exhibition almost every year.
- College got recognized as Centre for Higher Learning and Research by RTM Nagpur University.

**Resources required:**

The required resources were met from the fund allotted by UGC and some amount of self funding is done by the college itself.

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**Best Practice: 4****Maximize the use of ICT in pedagogy****Title of the practice: Maximize the use of ICT in pedagogy****Goal:**

Increase the use of interactive white board and ICT for enhancing faculty competencies, for effective implementation of the teaching and learning process.

**The Context:**

Use of ICT in teaching learning process has been considered as the innovative best method for upgrading the teaching and learning process in the HEIs. As teaching is best retained if it has visuals, this practice would facilitate the execution of the teaching-learning process. It enhances self-learning and helps the students to acquire knowledge at their own. It provides an escape to the students from the monotonous old fashioned methods of teaching.





**The practice:**

In recent times the government as well as other apex bodies have emphasized on the need of using ICT in education. Students have always looked for the innovative teaching and learning rather than traditional ones. To achieve this, 06 class rooms have been equipped with white interactive board and LCD Projector. The faculty members are requested to adopt use of audio visual aids. The IQAC has made it mandatory for the teachers to teach with the help of slides, transparency, power point presentation and then interactive board at least once in a week. The teachers have been trained to use the boards by taking numbers of training classes by the experts and the teachers who are expert in handling the ICT enabled system. The students are also encouraged to prepare slides, PPTs as a part of assignment and they are asked to deliver presentations using these ICT tools. This makes the teaching-learning a two way process which involves teachers and students.

**Evidence of Success**

It has been noted that the teachers and students have not just excelled in using ICT tools, but they find the teaching-learning process more interesting.

**Resources Required**

More computers and Projectors would be required in the future. Hence, more finances would be required.

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# Evaluative Report of the Departments



## Physics

1. Name of the Department: **PHYSICS**
2. Year of Establishment: **UG- 1989, PG- 2004**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG (B.Sc.), PG(M.Sc.), Ph.D.**
4. Names of Interdisciplinary courses and the departments/units involved: **Nil**
5. Annual/ semester/choice based credit system (programme wise):  
 UG-Semester; PG-semester CBCS  
 \* **Semester for UG is introduced by University from the session 2013-14.**  
 \* **Semester CBCS for PG is introduced by University from the session 2015-16.**
6. Participation of the department in the courses offered by other departments: **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. : **Nil**
8. Details of courses/programmes discontinued (if any) with reasons: **Nil**
9. Number of teaching posts

Post	Sanctioned	Filled
Professors	Nil	---
Associate Professors	04 (UG)	04
Asst. Professors	01 (UG)	01
Asst. Professors (temporary)	05 (PG)	05

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Mrs.V.R. Kharabe	M.Sc., D.Cs.A., B.A.(ELT)	Asso. Professor	Luminescence	27 years	
Dr. S.A. Bhagat	M.Sc., Ph.D., B.Ed., LLB	Asso. Professor	Luminescence, Crystallography	17 yrs(Jr)+ 13yrs(sr)	
Dr. S.P.Puppalarwar	M.Sc., B.Ed., Ph.D.	Asso. Professor	Luminescence	26 years	04
Dr. D.S.Badwaik	M.Sc., Ph.D.	Asso. Professor	Nanoferrites compounds	29 years	04
Mr. A.P.Mahajan	M.Sc., Gate, NET, SET	Assist. Professor	Biosensors	07 years	
Mr.A.Lihitkar	M.Sc., M.Tech., NET, SET	Assist. Professor	Material science	01 year	



Mrs. P. Hedao	M.Sc..	Adhoc	Luminescence	01 year	
Mrs.A.Banabakode	M.Sc.	Adhoc		01 year	
Mrs. L. Sorte	M.Sc.	Adhoc		01 year	
Mrs.P.Bhure	M.Sc.	Adhoc	Luminescence	01 year	

11. List of senior visiting faculty :**Nil**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B.Sc.</b>	Nil	Nil
<b>M.Sc.</b>	50%	75%

13. Student -Teacher Ratio (programme wise)  
**UG- 280:5, 56:1 PG- 44:5, 9:1**
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled :

Post	Sanctioned	Filled
<b>Laboratory Assistant</b>	01	01
<b>Laboratory Attendant</b>	01	01

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
04	--	02	05

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received : **Nil**
18. Research Centre /facility recognized by the University

**Yes. RTM Nagpur University registration no. BCUD/R/J/212/955/dated 15/05/2012.**

19. Publications:



Name of Faculty	Papers			Books	Patents	Total Publications	Impact Factor	Total Citation	h-Index	i10 index	SJR
	International	National	Proceedings	Book Articles	International						
Mrs. V. R. Kharabe	03	03	02	01		09	2.29				
Dr. S. A. Bhagat	08	01	07	09		31	06				
Dr. S. P. Puppalwar	10	03	06	04		43	1.63	78	5	3	
Dr. D. S. Badwaik	03	02	03	03		12	0.2				
Mr. A. P. Mahajan	02			04		11	2.0	3	1		
<b>Total</b>	<b>38</b>	<b>14</b>	<b>82</b>	<b>17</b>		<b>112</b>	<b>48.6</b>	<b>78</b>	<b>6</b>	<b>3</b>	

\* Chapter in Books

Name of Faculty	Chapter Title	Name of Book	Publisher	Year of Publication	ISBN/ISSN
Dr. S.P. Puppalwar	Li – Based Phosphors for Thermoluminescence Dosimetry	Radiation synthesis of materials and compounds 7 (2013) 147 – 192	CRC Press, Taylor and Francis Grp.(UK)	2013	

\* Books with ISBN/ISSN numbers with details of publishers

S. N.	Name of Faculty	Name of Book	Publisher	Year of Publication	ISBN/ISSN
1	Mrs,V.R.Kharabe	Geometrical and Physical Optics	GC publication	2012	
2	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	Textbook of Physics “Oscillations, Kinetic theory of gases and Thermodynamics” (B.Sc. I Sem II, paper I	RAJNI Publication, Nagpur	Mar 26 <sup>th</sup> 2014	I.S.B.N. NO. 978-93-83619-07-8
3	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	Textbook of Physics “Gravitation, Astrophysics, Magnetism and Magneto statics ( (B.Sc. I Semester II, paper II)	RAJNI Publication, Nagpur	Mar 26 <sup>th</sup> 2014	I.S.B.N. NO. 978-93-83619-07-9
4	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	Textbook of Physics “Properties of matter and Mechanics” (B.Sc. I Semester I, paper	RAJNI Publication, Nagpur	July 15 <sup>th</sup> 2014)	I.S.B.N. NO. 978-93-83619-



		I)			07-4
5	Dr.S.A.Bhagat, Dr. S.P. Puppalwar, Mr. A.P. Mahajan	A textbook of Physics “Electrostatics, Time varying fields and Electric currents” (B.Sc. I Semester I, paper II)	RAJNI Publication, Nagpur	Sept 15 <sup>th</sup> 2014	I.S.B.N. NO. 978-93-83619-29-0
6	Dr.S.A.Bhagat	A textbook of Physics “Sound Waves, Applied Acoustics. Ultrasonics and Power Supply” (B.Sc. I Semester I, paper II),	RAJNI Publication, Nagpur	Sept 15 <sup>th</sup> 2014	I.S.B.N. NO. 978-93-83619-25-2
7	Dr.S.A.Bhagat	Physics“Solid State Physics, X-Ray and Laser” (B.Sc. II Semester IV, paper I)	Central Techno Publication, Nagpur	Feb 23 <sup>rd</sup> 2015	I.S.B.N. NO. 978-81-89178-17-8
8	Dr.S.A.Bhagat	A textbook of Physics “Solid State Physics, X-Ray and Lasers” B.Sc. II Semester IV, paper I	RAJNI Publication, Nagpur	Feb 3 <sup>rd</sup> 2015	I.S.B.N. NO. 978-93-83619-40-5
9	Dr.S.A.Bhagat	A textbook of Physics “Solid state Electronics and Molecular Physics”(B.Sc. II Semester IV, paper II	RAJNI Publication, Nagpur	APR. 2015)	I.S.B.N. NO. 978-93-83619-40-4
10	Dr.S.A.Bhagat	A textbook of Physics“Physical Optics and Electromagnetic Waves” B.Sc. II Semester III, paper II	RAJNI Publication, Nagpur	July. 2015	I.S.B.N. NO. 978-93-83619-69-6
11	Dr. D. S. Badwaik	“Electrostatics, Electrical Current, Time Varying Field and Electromagnetic waves” B.Sc. I Year Physics Paper III as per RTM Nagpur University	GC publication	2012	ISBN No. 978-81-926159-7-4
12	Dr. D. S. Badwaik	“Electrostatics, , Time Varying Field and Electrical Currents” B.Sc. I Semester I Physics Paper II As per RTM Nagpur University	GC publication	Aug.2013	ISBN No. 978-93-82962 – 08 - 3
13	Dr. D. S. Badwaik	B.Sc. I Semester I Physics Paper I & Paper II As per RTM Nagpur University	GC publication	2014	ISBN No. 978-93-82962 – 08 - 3

20. Areas of consultancy and income generated : 15600/-



## 21. Faculty as members in

Name of Faculty	National /International Committees	Editorial Boards	University committees (BoS/MC/Senate/LEC/ etc)
Mrs.V.R.Kharabe	1.Life Member of Indian Physics Association(NAG/LM/11711). 2.Luminescence society of India(LSI/00445). 3.Marathi Vidnyan Parishad. 4.Vidarbha Physics Teacher's Association. Nature Science (Club's) Society.		1.Member of BOS 2.Convenor of National Conference on "Current Developments in Nanoscience:Challenges and Opportunities"
Dr.S.A.Bhagat	1.Luminescence society of India(LSI) 2.Marathi Vidnyan Parishad 3. "Vidarbha Junior College Teacher Association" Nagpur 1998 4. "Eagle Sporting club", old Subhedar layout extension, Nagpur (since 1986) 5. Executive Member "Maharashtra Progressive Association", Nagpur 6. Distt. Secretary "Maharashtra Andhashraddha Nirmulan Samiti" (MANIS), Nagpur		
Dr.S.P.Puppalwar	1. Luminescence society of India(LSI) 2. Vidarbha Universities Physics Teachers Association. 3. International Association of Advanced Materials, Sweden		1.Organising Secretary of National Conference on Current Developments in Nanoscience: Challenges and Opportunities.
Dr.D.S.Badwaik	1. Vidarbha Universities Physics Teachers Association. 2.MFUCTO 3.NUTA		

## 22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme: 100%

**MSc. II year students Project list**

## 1) Mrs. V. R. KHARABE

Sr.no	Name of the Students	Subjects	Year
1	Miss.Jyoti Pande	Synthesis and characterization of GdBO <sub>3</sub> (Eu and Sm) phosphor.	2013-14
2	Miss .Priti Peshne	Synthesis and characterization of Eu and Sm doped LaBO <sub>3</sub> phosphor.	2013-14
3	Miss.Wandutai Gaidhane	Synthesis and characterization of Eu and Tb doped YBO <sub>3</sub> phosphor.	2013-14
4	Ku. Smita V. Tupate	Synthesis and characterization of Sm and Dy doped LiBaBO <sub>3</sub> and KBaBo <sub>3</sub> phosphor	2015-16
5	Ku. Meenal A. Khante	Synthesis and Structure Analysis of Dy <sup>3+</sup> activated Sr <sub>6</sub> BP <sub>5</sub> O <sub>20</sub> and Ca <sub>6</sub> BP <sub>5</sub> O <sub>20</sub> Borophosphate phosphor	2015-16

## 2) Dr. S. A. BHAGAT

S.N	Name of the Students	Title of the Project	Year
1.	Ku.Suchita Badkhal	1)“Enhancement in luminescence of Alq <sub>3</sub> by Co <sup>2+</sup> ion for OLED application”	2012-13
2.	Ku.Rohini K. Maheshwari	2)“Enhancement in luminescence of Alq <sub>3</sub> By cu <sup>++</sup> ion Organic Light Emitting Diodes (OLEDS ) Application”	
3.	Ku.Kamrunnisha Sheikh	“Enhancement in luminescence of Alq <sub>3</sub> by Fe <sup>2+</sup> ion for OLED applications”	
4.	Tanvir Shaikh	3)“Enhancement in Luminescence of Alq <sub>3</sub> by Mn ions for Organic Light Emitting Diodes (OLEDS)”	
5.	Ku.Vaishali Prayagi	1)“Enhancement in Luminescence of Alq <sub>3</sub> by Zn ions for Organic Light Emitting Diodes (OLEDS)”	2013-2014
6.	Ku. Nisha Ramteke	2)Enhancement in Luminescence of Alq <sub>3</sub> by Ti ions for Organic Light Emitting Diodes (OLEDS)”	
7.	Ku. Dipika D. Wankhede	3)“Enhancement in luminescence of Alq <sub>3</sub> by “P”ions for OLED application”	2013-2014
8.	Ku. Swati Khangar	1)Enhancement in luminescence of Alq <sub>3</sub> by “Eu”ions for OLED application”	2015-2016
9.	Ashish N. Kandalkar	2)Enhancement in luminescence of Alq <sub>3</sub> by “Ce”ions for OLED application”	

## 3) Dr. S. P. Puppalwar

S.N.	Name of the Students	Title of the Project	Year
1.	Ms. Bandini Yadav	Synthesis and characterization of Li <sub>2</sub> Ca <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> phosphor	





2.	Ms. Shikha Shahare	Luminescence properties of $\text{Li}_2\text{CaSiO}_4:\text{RE}$ (RE=Eu and Dy) Phosphors	2012-13
3.	Ms. Salma S. Ishteyaque	Fluorescence properties of rare earth doped $\text{MAl}_2\text{Si}_2\text{O}_7\text{Cl}_2$ phosphor. (M=Ca, Ba)	
4.	Mr. Sujoy Roy	Synthesis of Ce and Cu doped $\text{LiBaBO}_3$ phosphor	
5.	Mr. Vaibhav Shende	Synthesis and characterization of fluoride based phosphors.	2013-2014
6.	Ms. Anusaya Gabhane	Synthesis and photoluminescence properties of $\text{Eu}^{3+}$ doped Yttrium Aluminates phosphors	
7.	Mr. Manish Lilhare	Optical properties of Eu doped $\text{LaCaAlO}_4$ phosphor	
8.	Ms. Deepa Sukhdeve	Optical properties of Sm doped $\text{Li}_2\text{MSiO}_4$ phosphors (M = Ca, Sr and Ba )	2014-2015
9.	Ms. Gauri Kawle	Thermoluminescence properties of $\text{LiCaPO}_4:\text{Ce}$ phosphor	
10	Mr. Devendra Kamle	Photoluminescence properties of $\text{Li}_2\text{NaBF}_6:\text{RE}$ phosphor.” (RE= Eu, Sm)	2015-2016
11	Ms. Pragati Sukhdeve	Synthesis and PL characterization of rare earth doped $\text{Li}_2\text{Sr}_2\text{Si}_2\text{O}_7$ Phosphors	
12	Mr. Falguni Mondal	Synthesis and PL properties of Cerium doped $\text{LiLaF}_4$ Phosphor	
13	Ms. Afrin Sheikh	Optical properties of Dy and Gd doped $\text{K}_2\text{SrSiO}_4$ phosphor	

#### 4) Dr. D. S. Badwaik

Sr. no	Name of the Students	Title of the Project	Year
14	Mr. Chetan R. Raut	Structural and dielectric behavior of Mg substituted SrCu-Y type hexa- ferrites.	2012-13
15	Miss. Geeta Hepat	Structural and dielectric studies of Zn substituted $\text{Ba}_2\text{Co}_{2-x}\text{Zn}_x\text{Fe}_{10}\text{La}_2\text{O}_{22}$ - Y type hexaferrites.	
16	Mr. Laxmikant Karingwar	Synthesis, structural and electrical studies of enzyme based polyaniline zinc oxide composite.	
17	Mr. Rudra R. Mondal	Synthesis, structural and dielectric properties of Mg substituted SrCo-Y type hexaferrites.	
18	Miss. Snehal V. Bharade	Impact of Co substitution on the structural and dielectric properties of $\text{Sr}_2\text{Ni}_{1-x}\text{Zn}_x\text{Co}_x\text{Fe}_{12}\text{O}_{22}$ hexaferrites.	
19	Miss. Sonali N. Vaidya	Structural and dielectric studies of Zn substituted $\text{Ba}_2\text{Co}_{2-x}\text{Zn}_x\text{Fe}_{10}\text{Al}_2\text{O}_{22}$ - Y type hexaferrites.	
20	Miss. Bhagyashree M. Pande	Synthesis and Dielectric Properties of Ni-Cd Y- Type Nano Hexaferrites substituted with Zn.	2013-14



21	Miss. Tazeen Fatima	Optical and Electrical studies of conducting polymer-ferrite nanocomposite.	
22	Miss. Vaishali D. Jasudkar	Impact of cobalt substitution on the structural and dielectric properties of nanosized Nickel Zinc mixed ferrites.	
23	Miss Vaishali Pandarkar	“Charaterization Of Cadmium Substituted By Ni Zn Nanoferrites Synthesized By Sol Gel Auto Combustion Route”	2014-15
24	Miss Nitu Verma	“Effect of Copper Substitution on Dielectric Behavior of Nickel Zinc Mixed Ferrites”	
25	Ms. Sapana H. Dhabarde	Impact of Cobalt Substitution on structural and Dielectric Properties of Mixed Ferrites	2015-16
26	Ms. Megha P. Lende	“Effect of temperature on Structural and Dielectric Behavior of Ferrites Synthesized by Sol Gel Auto Combustion Route”.	
27	Ms. Dineshwari N. Akre	<i>Synthesis And Structural Characterization Of Mixed Ferrite</i>	

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies:

**01 student** placed in VNIT for Ph.D. with fellowship.

### 23. Awards / Recognitions received by faculty and students

Title of Award / Recognition	Name of Faculty	Year
Andhashraddha nirmulan wartapatra Sathi Purskaar, Sangli	Dr. S. A. Bhagat	20th May 2015

S. No.	Title of Award / Recognition	Name of Student	Year
1	Second prize in seminar organized by VUPTA at Dharampeth science college, Nagpur.	Ms.Prajakta Hiwase	Jan 19,20, 2013
2	Third prize in elocution competition organized by VUPTA at Dharampeth science college,Nagpur.	Ms.Bhagyashree Hatwar	Jan 19,20, 2013
3	Represented Maharastra directorate in Republic day parade.Also participated in annual NCC republic day camp and priministres rally held at new delhi.	Ms.Vijaya Halmare	26 th Jan 2013
4	3 silver medals & 3 prizes on account of scoring 89 % in B,Sc-I ,summer 2013 examination.	Ms.Neha Patel	2013



5	Received best poster presentation award in UGC sponsored national conference on Material Preparation and Characterization, Nanoparticles and Future Trends at Sindhu Mv.Nagpur.	Mr.Rudra Mondal and Ms.Sonali Vaidhya	Feb 24,2013
6	Received 1 st prize in poster competition on work of scientist organized by J.B.Science College ,Wardha.	Ms.Neha Patel and Ms.Pranali Rode	2013
7	5 th position in merit list of M.Sc. physics in summer-2013 examination.	Mr. Kamlesh Chandekar	2013
8	Qualified NET for lecturership	Ms.Pranali Tembhone	Jun 23,2013
9	Awarded Ph.D.by RTM NU.	Ms.Roshani Singh	2014
10	Qualified NET for JRF	Mr. Kamlesh Chandekar	Jun 22,2014
11	Qualified NET	Mr.Nitesh Koche	Dec 21,2014
12	Received Third prize in Dr.Ashok Shekhar memorial intercollegiate seminar competition organized at Dharampeth M.P,Deo Memorial Science College,Nagpur	Ms.Mansi Parab	Jan 28, 2015
13	Received 1 <sup>st</sup> Best Team position in II National Debate Competition held at G.H.Raisoni Law School,Nagpur	Ms.Mansi Parab	Feb 07 ,2015
14	Represented his NCC Directorate at the annual NCC Republic Day Camp and the Prime Minister's Rally at New Delhi from 01 Jan to 29 Jan 2016	Ujjwal Shirpurkar	Jan 26,2016
15	Received 1 st prize in seminar competition organized by VUPTA at S.M.Mohata Science College,Nagpur.	Devendra Kamble	April 02,2016
16	Received 2 nd prize in seminar competition organized by VUPTA at S.M.Mohata Science College,Nagpur.	Ms.Afrin Sheikh	April 02,2016
17	Received 1 st prize in seminar competition organized by VUPTA at Shri. Dnyansh Mahavidyalaya,Nawargaon.	Ms.Vrushali Mankar	Sept 24,25,2016



18	Received 2 <sup>nd</sup> prize in seminar competition organized by VUPTA at Shri. Dnyansh Mahavidyalaya, Nawargaon	Mr.Nitin Doye	Sept 24,25,2016
19	Received Consolation prize in elocution competition organized by VUPTA at Shri. Dnyansh Mahavidyalaya, Nawargaon	Mr.Jaswant Ahirwar	Sept 24,25,2016
20	Selected in AVISHKAR-2016 in Stage -I	Mr.Harshal Shende Mr.Himanshu Shende	Oct.13,2016

24. List of eminent academicians and scientists / visitors to the department

Sr. No	Eminent academicians and scientists / visitors with work place	Field
01	Dr.Singh ,Greater Noida(2012-2013)	Nanoscience
02	Dr.N.L.Singh,M.S.Uni.Vadodhara(2012-2013)	Nuclear Physics
03	Dr.V.B.Sapre(2012-2013)Ex.HOD ,RTMNU,Nagpur	X-Ray Spectroscopy
04	Dr.Dinesh Amalnerkar,Director ,CMET,Pune(2013-2014)	Nanoscience
05	Dr.S.Srinath,Central Uni.Hyderabad(2013-2014)	Ferrites
06	Dr.Manish Shinde(2013-2014)	Nanoscience
07	Prof.S.S.Umre ,Head,Dept. of chemistry,VNIT,Nagpur(2013-2014)	Polymer
08	Dr.Gouresh Naik,HOD,Dept .of Electronics ,Goa Uni.,Goa(2014-2015)	Biomedical Instrumentation
09	Dr.K.G.Rewatkar,Dr.Ambedkar College,Nagpur(2014-2015)	Nanoscience
10	Dr.Sudhir Gupta,Head & Prof.Gastroentology,GMC,Nagpur (2015-2016)	Gastroentology
11	Dr.Sandhya Kranti,Scientist,CICR,Nagpur(2015-2016)	Environmental science
12	Dr.Navinchandra Shimpi,Mumbai Uni.Mumbai. (2016-2017)	Nanoscience

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National:

**CSIR sponsored National conference on “Current Developments in Nanoscience:Challenges and Opportunities”**organized on 14 th sept.2013.(50000/-)

b) International :Nil

26. Student profile programme/course wise:

**Undergraduate**

Year	Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2013-14	B.Sc. Sem I	102	102	25	77	27.45 %



	B.Sc. Sem II	102	102	25	77	37.86 %
	B.Sc. II year	65	65	11	54	44.61 %
	B.Sc.III year	37	37	09	28	73.91 %
2014-15	B.Sc. Sem I	125	125	53	72	21.00 %
	B.Sc. Sem II	123	123	53	70	37.00 %
	B.Sc. Sem III	88	88	19	69	38.00 %
	B.Sc. Sem IV	88	88	19	69	38.00 %
	B.Sc.III year	70	70	12	58	78 %
2015-16	B.Sc. Sem I	102	102	39	63	35.00 %
	B.Sc. Sem II	102	102	39	63	42.30 %
	B.Sc. Sem III	105	105	43	62	34.00 %
	B.Sc. Sem IV	105	105	43	62	45.70 %
	B.Sc. Sem V	64	64	13	51	40.63 %
	B.Sc. Sem VI	64	64	13	51	60.00 %
2016-17	B.Sc. Sem I	116	116	33	83	36%
	B.Sc. Sem III	104	104	38	66	34.23 %
	B.Sc. Sem V	67	67	28	39	71.64 %

**Postgraduate**

Year	Name of the Course/progra	Applications received	Selected	Enrolled		Pass
				*M	*F	
2013-14	M.Sc. Sem I	20	20	04	16	00.00 %
	M.Sc. Sem II	18	18	03	15	00.00 %
	M.Sc. Sem III	13	13	02	11	00.00 %
	M.Sc. Sem IV	12	12	02	10	00.00 %
2014-15	M.Sc. Sem I	22	22	04	18	4.5 %
	M.Sc. Sem II	22	22	04	18	00.00 %
	M.Sc. Sem III	06	06	01	05	00.00 %
	M.Sc. Sem IV	07	07	01	06	00.00 %
2015-16	M.Sc. Sem I	22	22	04	18	32.00 %
	M.Sc. Sem II	22	22	04	18	63.00 %
	M.Sc. Sem III	12	12	03	09	00.00 %
	M.Sc. Sem IV	12	12	03	09	17.00 %

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc.	100%	-	-
M.Sc.	100%	-	-

28. How Many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

- 1) NET/SET - 03
- 2) JAM - 01
- 3) Ph.D. - 05



## 29. Student progression

Student progression	Against enrolled %
UG to PG	10%
PG to M.Phil.	----
PG to Ph.D.	---
Ph.D. to Post-Doctoral	----
<b>Employed</b> • Campus selection • Other than campus recruitment	10% -----
Entrepreneurship/Self-employment	1%

## 30. Details of Infrastructural facilities

a) **Library**

- 1) Books - **236**
- 2) Journal - **01**
- 3) Projects - M.Sc. students

b) Internet facilities for Staff & Students : **Yes**c) Class rooms with ICT facility : **Laboratory with ICT facility**d) **Laboratories:**

- 1) Experiment laboratory(for UG & PG) - 01 Area- **1350 sq.ft.**
- 2) Dark room laboratory - 01 Area - **350 sq.ft .**
- 3) Research laboratory - 01, Area- **700 sq.ft.**

## 31. Number of students receiving financial assistance from college, university, government or other agencies:

**4 students** received financial assistance from college to participate in VUPTA seminar competition (2016-17).

## 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

Sr. No.	Eminent academicians and scientists / visitors with work place	Field/Topic
01	Dr.Singh ,Greater Noida(2012-2013)	Nanoscience
02	Dr.N.L.Singh,M.S.Uni.Vadodhara(2012-2013)	Advances in Nuclear Physics
03	Dr.C.V.Dhule,Dharampeth sci.college,Nagpur	Basic science & its importance
04	Dr.V.B.Sapre(2012-2013)Ex.HOD	X-Ray Spectroscopy



	,RTMNU,Nagpur	
05	Dr.Dinesh Amalnerkar,Director ,CMET,Pune(2013-2014)	Nanoscience
06	Dr.S.Srinath,Central Uni.Hyderabad(2013-2014)	Ferrites
07	Dr.Manish Shinde(2013-2014)	Nanoscience
08	Prof.S.S.Umre ,Head,Dept. of chemistry,VNIT,Nagpur(2013-2014)	Polymer
09	Dr.Gouresh Naik,HOD,Dept .of Electronics ,Goa Uni.,Goa(2014-2015)	Biomedical Instrumentation
10	Intergiate Science Poster Competition	Technological and Scientific Revolution in 21 st century
11	Dr.K.G.Rewatkar,Dr.Ambedkar College,Nagpur(2014-2015)	Nanoscience
12	Dr.Sudhir Gupta,Head & Prof.Gastroentrology,GMC,Nagpur(2015-2016)	Gastroentrology
13	Dr.Sandhya Kranti,Scientist,CICR,Nagpur(2015- 2016)	Environmental science
14	Dr.Navinchandra Shimpi,Mumbai Uni.Mumbai.(2016-2017)	Nanoscience

33. Teaching methods adopted to improve student learning
- Students are encouraged to present research papers at various conferences.
  - Educational/Industrial visits.
  - Seminars by M.Sc. students.
  - Demonstrations.
  - Lectures with ICT.
  - Tests.
  - Students are encouraged to participate in Co-curricular and Extra-curricular activities.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Social programs
    1. Students of department of Physics visited to different homes for counseling and demonstration on “USE OF SOLAR ENERGY : Today’s Need”  
In all 16 students participated and visited more than 22 houses.
    2. Students constructed clay DAM at Netravan for saving water.
35. SWOC analysis of the department and Future plans

### **Strengths**

- ❖ Recognized Research laboratory
- ❖ Well furnished and equipped Laboratories

### **Weakness**

- ❖ Average students seek admission in B.Sc. Courses.

### **Opportunities**



- ❖ Growing employment potential due to Cargo Hub-MIHAN project.
- ❖ Improve Campus placement of students.
- ❖ Research guidance from Supervisors.

**Challenges**

- ❖ Less Job opportunities for Basic sciences in industries.

**Future Plans**

- ❖ **To promote Scientific Culture.**
  - ❖ **To up grade Instrumentation facilities**
- 





**CHEMISTRY**

- Name of the department: **CHEMISTRY**
- Year of Establishment; UG **1989**, PG **2001**
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG (B.Sc.), PG (M.Sc.), Ph.D**
- Names of Interdisciplinary courses and the departments/units involved: **Nil**
- Annual/ semester/choice based credit system (programme wise):

Academic Year	UG	PG
2012-13	Yearly pattern	Semester pattern (C.B.S)
2013-14	Semester pattern (C.B.S)	Semester pattern (C.B.S)
2014-15	Semester pattern (C.B.S)	Semester pattern (C.B.CS)
2015-16	Semester pattern (C.B.S)	Semester pattern (C.B.CS)

- Participation of the department in the courses offered by other departments:  
**A Certificate course in Bioinformatics, Cheminformatics & statistics in Collaboration with Department of Biotechnology has been organized from 26 July 2016- 04Sept 2016**
- Courses in collaboration with other universities, industries, foreign institutions, etc.:  
**NIL**
- Details of courses/programmes discontinued (if any) with reasons: **NIL**
- Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	03	03
UG (Non-Granted)	11	11
PG (Non Granted)	06	06

- Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. S. M. Gadegone	Ph.D	Head & Associate Professor	Inorganic Chemistry	26	Awarded-01 Submitted-03 Registered-03



Dr. W. B. Gurnule	Ph.D	Associate Professor	Inorganic Chemistry	24	Awarded - 13 Submitted -02 Registered -07
Dr. M. S. Wagh	Ph.D	Assistant Professor	Physical Chemistry	12	NIL
Ms.R.M.Turankar	M.Sc	Ad-hoc lecture	Organic Chemistry	05	NIL
Ms.S.N.Nagare	M.Sc	Ad-hoc lecture	Organic Chemistry	03	NIL
Mrs.S.G.Burde	M.Sc	Ad-hoc lecture	Organic Chemistry	03	NIL
Mr.N.S.Chawade	M.Sc	Ad-hoc lecture	Analytical Chemistry	02	NIL
Mr.K.N.Nandeshwar	M.Sc	Ad-hoc lecture	Organic Chemistry	01	NIL
Ms.A.D.Maradkar	M.Sc	Ad-hoc lecture	Physical Chemistry	01	NIL
Ms.Shruti Mundhada	M.Sc	Ad-hoc lecture	Organic Chemistry	02	NIL
Ms.Bharti Shinde	M.Sc	Ad-hoc lecture	Analytical Chemistry	02	NIL
Ms.Kalyani Warulkar	M.Sc, B.Ed	Ad-hoc lecture	Organic Chemistry	03	NIL
Ms.Vandana Shende	M.Sc,B.Ed,Pursuing Ph.D	Ad-hoc lecture	Organic Chemistry	02	NIL
Ms.Ashwini Barwe	M.Sc, Ph.D	Ad-hoc lecture	Organic Chemistry	03	NIL
Ms.Sushma Deshmukh	M.Sc	Ad-hoc lecture	Organic Chemistry	03	NIL
Ms. Reena Bagde	M.Sc	Ad-hoc lecture	Organic Chemistry	01	NIL
Mr.Dinesh Khadatkar	M.Sc,Ph.D	Ad-hoc lecture	Organic Chemistry	14	NIL
Mr.Santosh Chakole	M.Sc,B.Ed,Pursuing Ph.D	Ad-hoc lecture	Inorganic Chemistry	07	NIL
Ms.Sharda Gour	M.Sc,B.Ed	Ad-hoc lecture	Inorganic Chemistry	07	NIL
Dr.Pravin Gaidhane	M.Sc, Ph.D	Ad-hoc lecture	Organic Chemistry	06	NIL

11. List of senior visiting faculty: nil
12. Percentage of lectures delivered and practical classes handled (programme wise)  
By temporary faculty

Academic Year	Theory %		Practical %	
	UG	PG	UG	PG
2013-14	71.4 %	64.5 %	68.1 %	68.0 %



2014-15	71.4 %	64.5 %	68.1 %	68.0 %
2015-16	71.4 %	64.5 %	68.1 %	68.0 %
2016-17	71.4 %	64.5 %	68.1 %	68.0 %

## 13. Student -Teacher Ratio (programme wise)

**Undergraduate**

Academic Year	Student -Teacher Ratio
2012-13	20:1
2013-14	46:1
2014-15	58:1
2015-16	64:1
2016-17	72:1

**Postgraduate**

Academic Year	Student Teacher Ratio
2012-13	4:1
2013-14	3:1
2014-15	4:1
2015-16	4:1
2016-17	5:1

## 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Lab assistant- 05 (Sanctioned), 04(Filled)

Lab attendant- 18((Sanctioned), 16(Filled))

## 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
03	--	01	18*

\*Two faculty members are persuing Ph.D. degree

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

## 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Name of the faculty	Session	Funding Agency	From	To	Amount
Dr. S. M. Gadegone	2012-14	UGC	21 <sup>st</sup> Feb 2012	21 <sup>st</sup> Feb 2014	<b>1,60,000/- (Minor)</b>
Dr. W. B. Gurnule	2011-14	UGC	01 <sup>st</sup> Feb 2011	01 <sup>st</sup> Feb 2013	<b>Rs.13,46,870/- (Major)</b>
Dr. M. S. Wagh	2012-14	UGC	21 <sup>st</sup> Feb 2012	21 <sup>st</sup> Feb 2014	<b>1,65,000/- (Minor)</b>

## 18. Research Centre /facility recognized by the University:

**Research Centre recognized by the RTMN University, Nagpur by the letter no. BCUD/R/J/2012/955**

## 19. Publications:



## \* a) Publication per faculty (Conference Proceedings)

Name of the Faculty	Session	No. of Publications
Dr. S. M. Gadegone	2012-13	-
	2013-14	10
	2014-15	01
	2015-16	-
Dr. W. B. Gurnule	2012-13	22
	2013-14	16
	2014-15	08
	2015-16	06
Dr. M. S. Wagh	2012-13	01
	2013-14	04
	2014-15	02
	2015-16	nil

## \* Number of papers published in peer reviewed journals (national / International) by faculty and students

Name of the Faculty	Session	National Journals	International Journals
Dr. S. M. Gadegone	2012-13	-	01
	2013-14	-	12
	2014-15	-	05
	2015-16	-	02
Dr. W. B. Gurnule	2012-13	-	<b>22</b>
	2013-14	-	<b>16</b>
	2014-15	-	<b>08</b>
	2015-16	-	<b>06</b>
Dr. M. S. Wagh	2012-13-	-	02
	2013-14	-	03
	2014-15	-	04
	2015-16	-	02

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Monographs

\* Chapter in Books

Name of the Faculty	Details of Book	Chapters	Publishers	ISBN No
Dr. S. M. Gadegone	A Text book of Chemistry B.Sc Sem II	02 (organic Chemistry)	Sai Jyoti Publication	978-93-81432-04-4
	A Text book of Chemistry B.Sc Sem V	02 (organic Chemistry)	Sai Jyoti Publication	978-93-86011-32-9
	Organic Chemistry for B.sc sem I for Gadchiroli University	02 (organic Chemistry)	Rajani Prakashan	978-93-83619-53-5
Dr. W. B. Gurnule	Sorption investigation of Toxic metal ions	01	Apple Academic Press inc	-
	Ion exchange properties of copolymer resin	01	Apple Academic Press inc	-
Dr. M. S. Wagh	A Text book of Chemistry B.Sc Sem II	02 (Physical Chemistry)	Sai Jyoti Publication	978-93-81432-04-4



	A Text book of Chemistry B.Sc Sem IV	02 (Physical Chemistry)	Sai Jyoti Publication	978-93- 81432-48-8
	A Text book of Chemistry B.Sc Sem V	02 (Physical Chemistry)	Sai Jyoti Publication	978-93- 86011-32-9

## \* Books Edited

Name of the Faculty	Details of Book Edited	ISBN No
Dr. W. B. Gurnule	Abstract Book edited National Conference on Multifunctional Advanced Materials	<b>978-93-86011-85-5</b>
	Abstract of National Conference on Advanced Functional Materials, VNIT Nagpur	-
	Abstract Book edited UGC Sponsored National Conference on Green Chemistry for Environment and Human Health	
Dr. S. M. Gadegone	Abstract Book edited National Conference on Multifunctional Advanced Materials	<b>978-93-86011-85-5</b>
	Abstract Book edited UGC Sponsored National Conference on Green Chemistry for Environment and Human Health	

## \* Books with ISBN/ISSN numbers with details of publishers

Name of the Faculty	Details of Book Edited	ISBN/ISSN No
Dr. W. B. Gurnule	Physical Chemistry, B.Sc.-I Sem-II	Das Ganu Prakashan, Nagpur. First Ed. 2014
	Inorganic Chemistry, B.Sc.-II Sem-III	Das Ganu Prakashan, Nagpur. First Ed. 2014
	Organic Chemistry, B.Sc.-II Sem-III	Das Ganu Prakashan, Nagpur. First Ed. 2014
	Inorganic Chemistry, B.Sc.-II Sem-IV	Das Ganu Prakashan, Nagpur. First Ed. 2015 <b>ISBN-978-93-81660-83-6</b>
	Organic Chemistry, B.Sc.-II Sem-IV	Das Ganu Prakashan, Nagpur. First Ed. 2015
	Physical Chemistry, B.Sc.-III Sem-V	Das Ganu Prakashan, Nagpur. First Ed. 2015
	Organic Chemistry, B.Sc.-III Sem-V	Das Ganu Prakashan, Nagpur. First Ed. 2016
	Inorganic Chemistry, B.Sc.-III Sem-VI	Das Ganu Prakashan, Nagpur. First Ed. 2016
	Organic Chemistry, B.Sc.-III Sem-VI	Das Ganu Prakashan, Nagpur. First Ed. 2016 <b>ISBN No.978-93-84336-15-8</b>

Citation Index	<b>828</b>
SNIP	--
SJR	--
Impact factor Max.	<b>6.31 (Average 1.28)</b>
h-index	<b>16</b>



20. Areas of consultancy and income generated:  
**Dr. W. B. Gurnule:** The areas of consultancy are Soil Analysis and environmental samples. Revenue generated =**14,600 /-**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**Dr. S. M. Gadegone:**

- Member of Special Task Committee
- Member of Marathi Vigyan Parishad
- Member of Association of Chemistry Teacher
- Member of Society for Promotion of Material Science, Nagpur
- Member of Indian Solid state association and allied areas
- Member of ICTA

**Dr. W. B. Gurnule**

- Member of National and International advisory Committee
- Editorial Members of Journals.
- Executive Council Member of Association of Chemistry Teachers
- **Secretary** of Society for Promotion of Material Science, Nagpur
- **Life Member**, Indian Association of Solid State Chemists and Allied Scientists – Jammu (LM-60).
- **Life Member**, Chemical Research Society of India (CRSI).
- **Life Member**, Indian Council of Chemist, Agra  
(LF-1240).
- **Life Member**, Mahatma Fule Education Society, Nagpur.
- **Life Member**, Marathi Vigyan Parishad, Nagpur.
- **Life Member**, University Chemistry Teachers Organization (UCTO) Nagpur
- **Life Member**, University Teacher Organization, Nagpur.
- **Life Member**, Global Earth Society for Environment Energy and Development, Bhopal
- **Life Member**, Rasayan Journal of Chemistry, Jaipur



- **Life Member**, Association of Chemistry Teacher, Mumbai
- **Life Member**, Society for Promotion of Material Science, Nagpur
- **Life Member**, Asian Polymer Association New Delhi
- **Editorial Member** of News letter of Association of Chemistry Teacher, Mumbai
- **Editorial Board member** of International Journal of Polymer science, USA

**Dr. M. S. Wagh**

- Member of Marathi Vigyan Parishad
- Member of chemistry teacher association
- Member of IACT
- Member of Society for Material Chemistry
- Life member of Thermodynamic Society

## 22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

Academic Year	% of Students
2013-14	25 %
2014-15	25 %
2015-16	50 %
2016-17	20 %

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies.

Academic Year	% of Students placed outside the Institution
2012-13	-
2013-14	-
2014-15	15 %
2015-16	-
2016-17	-



## 23. Awards / Recognitions received by faculty and students

Academic Year	Name of the faculty	Details of the award/Recognition
2012-13	<b>Dr. W. B. Gurnule</b>	<p><b>Best Oral Paper Presentation Award (First Place).</b> National conference on Role of Basic Sciences in Emerging Industrial Scenario (RBSEIS-2012) at Prof. Ram Meghe Institute of Technology, Badnera, 8<sup>th</sup> April <b>2012</b>.</p> <p><b>Best Paper Presentation Award (First Place)</b> National conference on Chemistry Education and Research and National Convention of Chemistry Teachers (NCCT-13) at Annamalai University Annamalai Nagar T. N. Nov. 8-10, <b>2013</b></p> <p><b>Best Paper Presentation Award (Second Place), UGC Sponsored</b> National Conference on Synthesis of Materials: Characterization and Application at J. M. Patel College, Bhandhara, 31<sup>st</sup> January <b>2014</b>.</p> <p><b>Award of Appreciation,</b> in International Conference on Futuristic Materials and Emerging Trends in Forensic and Life Sciences, at Dept. of Chemistry, RTM Nagpur University, Nagpur.5-7<sup>th</sup> Feb. <b>2015</b>.</p> <p><b>Distinguish Scientist Award- 2016,</b> at ARM-2016 at Chennai by Centre for Advanced Research, Venus International Foundation, Chennai.</p> <p><b>Outstanding Researcher Award-2016,</b> Aufau International Awards Aufau Periodicals, Salem, India</p>
2013-14	Dr. S. M. Gadegone	<b>Best poster presentation:</b> National Conference on Current developments in nanoscience: challenges and opportunities.
<b>Recognitions</b>		
2013-14	<b>Dr. W. B. Gurnule</b>	Inorganic Chemistry Communication
		Talanta-The International Journal of Pure and Applied Analytical chemistry
		Journal of Applied Polymer Science
		High Performance Polymer
		European Polymer Journal
		Journal of Macromolecular Science (Pure and Applied Chemistry)
		Chemical Engineering Communications
		Iranian Polymer Journal
		European journal of chemistry
		Desalination
		Journal of Molecular structure
		Journal of Inorganic and Organometallic Polymer
		Chemical Engineering Journal A
		Arabian Journal of Chemistry
		Journal of Thermal Analysis and Colorimetry
		Polymer Bulletin
		International Research Journal of Pharmacy and Pharmacology (IRJPP)
		Synthesis and Reactivity in Inorganic, Metal –Organic, and





	Nano- Metal Chemistry
	International Journal of Organic Chemistry
	International Journal of Analytical Chemistry
	Separation Science and Technology
	Research on Chemical Intermediate
	IEEE Trans on Dielectrics and Electrical Insulation
	Chemistry Letter
	Polymer International
	Industrial & Engineering Chemistry Research
	Adsorption Science and Technology
	Journal of Separation and Purification Technology
	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
	British Journal of Chemistry
	Elixir Journal of Chemistry
	International Journal of Polymer and Environment

Academic Year	Name of the Students	Details of the award/Recognition
2013-14	Ms. Narmada Parate	8 <sup>th</sup> Interuniversity festival AVISHKAR-2013
	Ms. Kavita Wanjari	1 <sup>st</sup> Prize in solo dance competition in Shardaotsav.
	Ms Neha Yeole	1 <sup>st</sup> Prize at college level Chemistry Talent Search Examination
	Ms. Poonam Sonule	3 <sup>rd</sup> prize in Intercollegiate Debate organized in Kamla Nehru College.
2014-15	Ms. Priya Meshram	Intercollegiate seminar competition at Porwal College, Kamptee
	Ms. Kalyani Mishra and Ms.Mansi Parab	Ist prize in Debate competition held at G.H.National Law school, Nagpur.
	Mr.Ashish Kawale	Consolation prize in Science Quiz Competition at Dr. Ambedkar College.
	Ms.Neha patel	Narayan Mulund Paonaskar award for obtaining the highest percentage of marks in B.Sc-Ist year
	Ms. Mansi Parab	IInd prize in debate competition held at Shri.Shivaji Science College, Nagpur
2015-16	Ms Shivani S. Bagade	1 <sup>st</sup> Prize at college level Chemistry Talent Search Examination
	Achal Mankar, Ms Anjushree Jagatpal	First prize in Quiz competition organized by Post Graduate Department of Chemistry, Nagpur University Nagpur``
	Mr. Ravibhushan Tripathi, Mr. Suraj Borkute	Third prize. in Quiz competition organized by Post Graduate Department of Chemistry, Nagpur University Nagpur``
2016-17	Ms Parinita Chaube & Ms,Nikita Jain	Second Prize in the Intercollegiate Quiz competition "Exetaza"organised by Dr. Ambedkar College, Deekshbhoomi Nagpur.
	Mr.Ashish Kawale & Apeksha Kale	III <sup>rd</sup> rank in Quiz competition "Chem-Mystery" organised by Hislop College, Nagpur
	Suraj Borkute	III <sup>rd</sup> rank in the Intercollegiate Science Fair & Quiz competition



Suraj Borkute & Jagendra Rahangdale	Won Stage I,II III levels of INTERUNIVERSITY FESTIVAL AVISHKAR, Reached to the National Level
Mr. Ravibhushan Tripathi	3 <sup>rd</sup> place in the Event Speech Competition arranged by MECL on the occasion of Vigilance Awareness week 2016 on 4 <sup>th</sup> Nov 2016

## 24. List of eminent academicians and scientists / visitors to the department

Prof L.J.Paliwal	R.T.M.Nagpur University Nagpur	Importance of Polymers	21 Aug 2013
Dr.S.H.Ganatra	Institute of Science, Nagpur	Computer Modeling of drugs	21 Aug 2014
Prof. A.D Sawant	Mumbai University	Waste material Management	31 Aug 2014
Prof N.B.Singh	Sharda University , Noida	Nanoscience and its impact on Society	17 Aug 2015
Prof. Bharat Thakkar	Vidyadi Institute of Science Surat, Gujrat	Liquid Crystal	23 Jan 2016
Dr.S.B. Nandeshwar	Scientist CICR	Plant Tissue Culture	2 <sup>nd</sup> April 2016
Dr.K.P.Ragavendra	Scientist CICR	GM Crops and Testing	3 <sup>rd</sup> April 2016
Dr.Manikandan	Scientist CICR	Organic biofertilizer in Agriculture	4 <sup>th</sup> April 2016
Dr.D.P.Gogle	Associate prof, PGTD Botany	Phytochemicals Importance and applications	5 <sup>th</sup> April 2016
Dr. Navin Chandra Shimpi	Associate Professor, Mumbai University	Nanoscience and Technology	19 August 2016.
Dr. Matt, Professor	Professor, University of Hursburg	Science for the Development of Society	6 Feb 2017

## 25. Seminars/ Conferences/Workshops organized &amp; the source of funding a)

## Nationalb) International

1	UGC Sponsored National Conference 24/ 01/ 2011	Green Chemistry for Environment and Human Health
2	DST Sponsored National Conference 16/ 03/ 2012	Nanoscience and Smart Materials
3	Department of Bio-Technology & Department of Chemistry in collaboration with ICAR-Central Institute for cotton research, Nagpur 2 <sup>nd</sup> April 2016 to 7 <sup>th</sup> April 2016	Basic Techniques in Plant Biotechnology and Phytochemistry
4	Organized by Department of Chemistry Kamla Nehru College, Nagpur in collaboration with Society	Oral Research paper competition” for research scholar



	for Promotion of Material Science, Nagpur on 18 <sup>th</sup> March 2016	
5	DST Sponsored National Conference 17-18 March 2017	Multifunctional Advanced materials (NCMAM-2017)

## 26. Student profile programme/course wise:

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	B.Sc Ist year	476	476	130	346	19.5 %
	B.Sc IIInd Year	245	245	66	179	25.6 %
	B.Sc Final year	76	76	16	60	58 %
2013-14	B.Sc Ist Sem	625	625	182	443	24.0 %
	B.Sc IIInd sem	625	625	182	443	24.3 %
	B.Sc- IIInd year	266	266	86	180	26.1 %
	B.Sc Final year	76	76	16	60	59 %
2014-15	B.Sc Ist Sem	539	539	155	384	15.0 %
	B.Sc IIInd sem	539	539	155	384	21.6 %
	B.Sc IIIrd Sem	336	336	70	266	33.0 %
	B.Sc IV Sem	336	336	70	266	27.7 %
	B.Sc Final year	133	133	23	110	53.8 %
2015-16	B.Sc Ist Sem	550	550	160	390	17.4 %
	B.Sc IIInd sem	550	550	160	390	18.2 %
	B.Sc IIIrd Sem	390	390	80	310	35.0 %
	B.Sc IV Sem	390	390	80	310	33.5 %
	B.Sc Vth sem	150	150	51	99	50.3 %
	B.Sc VI sem	150	150	51	99	53.7 %

\*M = Male \*F = Female

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	M.Sc- Ist sem	30	30	5	25	0 %
	M.Sc- IIInd sem	30	30	5	25	3.57 %
	M.Sc Final year	30	30	05	25	0 %
2013-14	M.Sc- Ist sem	28	28	7	21	3.8 %
	M.Sc- IIInd sem	28	28	7	21	7.69 %
	M.Sc –IIIrd Sem	15	15	02	13	3.7 %
	M.Sc –IV sem	15	15	02	13	17 %
2014-15	M.Sc- Ist sem	28	28	7	21	7.4 %
	M.Sc- IIInd sem	28	28	7	21	18.0 %
	M.Sc –IIIrd Sem	20	20	04	16	0 %
	M.Sc –IV sem	20	20	04	16	10 %
2015-16	M.Sc- Ist sem	29	29	11	18	20.68 %



	M.Sc- IInd sem	29	29	11	18	41.66 %
	M.Sc –IIIrd Sem	23	23	03	20	17.39 %
	M.Sc –IVth sem	23	23	03	20	17.3 %

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
B.Sc	2012-13	94.7 %	5.21 %	-
	2013-14	58.3 %	4.16 %	-
	2014-15	40.6 %	59.3 %	-
	2015-16	33.9 %	66.0 %	-
M.Sc	2012-13	75.6 %	24.3 %	-
	2013-14	83.7 %	16.2 %	-
	2014-15	97.9 %	2.08 %	-
	2015-16	84.6 %	15.3 %	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Session	NET	SET	GATE	MPSC
2012-13	01	-	-	-
2013-14	02	01	01	01
2014-15	02	-	-	-
2015-16	02	01	01	-

Academic Year	Exams	Name of the student	Remarks
2012-13	CSIR- NET	Amit Kalbande	JRF
2013-14	GATE	Pankaj Meshram	
	CSIR NET	Pankaj Meshram	JRF
	SET	Pankaj Meshram	
	CSIR- NET	Sudhir Mhaskey	LS
	MPSC	Roshan Chauhan	
2014-15	CSIR -NET	Rakesh Naktode	LS
	UGC- NET	Shazia Bari	LS
2015-16	CSIR NET	Dhanraj Lanje	NET
	CSIR NET	Sachin Wadhai	JRF (AIR 37)
	GATE	Sachin Wadhai	
	SET	Sachin Wadhai	

29. Student progression

Student progression	Against % Enrolled			
	2013-14	2014-15	2015-16	2016-17



UG to PG	7.14 %	7.14 %	20.6 %	27.5 %
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	01			
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
<b>Employed</b> • Campus selection • Other than campus recruitment	8.8 %	24.06 %	33.3 %	
Entrepreneurship/Self-employment	NIL	NIL	NIL	NIL

## 30. Details of Infrastructural facilities

- Library: Near about 168 numbers of books in various specializations of chemistry.
- Internet facilities for Staff & Students: A separate computer Lab for students with internet connection is provided.
- Class rooms with ICT facility: Chemistry Lab is Equipped with LCD Projector and Smart board.
- Laboratories: 03 separate laboratories (Lab-1, Lab-2 and Lab-3) for Undergraduate and Post graduate are there. Each has an area of 1200, 600, 900 Sq feet respectively.

## 31. Number of students receiving financial assistance from college, university,

## Government or other agencies

Academic session	No of Students	Agency	Pupose
2013-14	01	University	Inter-University Research level Competition AVISHKAR-13
2016-17	01	University	Inter-University Research level Competition AVISHKAR-16

## 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

Prof L.J.Paliwal	R.T.M.Nagpur University Nagpur	Importance of Polymers	21 Aug 2013
Dr.S.H.Ganatra		Computer Modeling of drugs	21 Aug 2014
Prof. A.D Sawant	Mumbai University	Waste material Management	31 Aug 2014
Prof N.B.Singh	Sharda University , Noida	Nanoscience and its impact on Society	17 Aug 2015
Prof. Bharat Thakkar	Vidyadi Institute of Science Surat, Gujrat	Liquid Crystal	23 Jan 2016
Dr.S.B. Nandeshwar	Scientist CICR	Plant Tissue Culture	2 <sup>nd</sup> April 2016
Dr.K.P.Ragavendra	Scientist CICR	GM Crops and Testing	3 <sup>rd</sup> April 2016
Dr.Manikandan	Scientist CICR	Organic biofertilizer in Agriculture	4 <sup>th</sup> April 2016



Dr.D.P.Gogle	Associate prof, PGTD Botany	Phytochemicals Importance and applications	5 <sup>th</sup> April 2016
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33. Teaching methods adopted to improve student learning.

- In addition to the traditional method of teaching use of ICT like Smart board is incorporated.
- Power point Presentation
- Practical method by giving demonstration,
- Organizing Seminars, Quiz,
- Assignments etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Students also Participate in *Swacha Bharat Abhiyan* Campaign
- Students of PG have done water analysis of Portable area in slum area of Orange city Khamla.
- Vigyan Bharti, Nagpur & Dharmpeeth Science College, Nagpur Soil Analysis, Water treatment, Separation of Toxic Metals and Conductivity.
- Chemistry Department in Collaboration with Home Science department has organized Small workshop for *Mahila Bachat Gat*. They were given the information about the preservatives.
- MOU was signed with ICAR-CICR.
- Extension Secretary of Society for Promotion of Material Science (Organizing Guest lecturers of eminent Scientists and Experts and organizing Conferences)

35. SWOC analysis of the department and Future plans

**Strength** of the Department

- Large number of the students
- Well equipped laboratory
- Good number of staffs
- Recognised laboratory for Ph.D
- Appropved PG staff members
- Research in different areas are carried out

**Weakness** of the Department



- Laboratories are not spacious.
- Insufficient number of non-teachings staff.

**Oppurtunities for the Department**

- Recognition of research lab.

**Challenges** before the Department

- Involving maximum number of students in higher education such as Ph.D

**Future Plans**

- To organize International Conference
  - To propose the projects under DST, DBT and other funding agencies.
  - To develop International and National linkages for research and development.
- 



**Electronics**

- Name of the department: **Department of Electronics**
- Year of Establishment: **1989**
- Names of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph. D., etc.)

Sr. No.	Programmes offered			
	UG	PG	M. Phil.	Ph. D.
1.	B. Sc.	M. Sc. (Electronics)	-----	Ph. D. (Electronics Science)

- Names of Interdisciplinary courses and the departments/units involved: **BCA, MCA  
Computer Science**
- Annual/ semester/choice based credit system (programme wise):

Sr No	programme wise):	Annual	semester	choice based
1.	B. Sc.	No	Yes	CBS
2.	M. Sc.	No	Yes	CBCS
3	BCA	No	Yes	CBS

- Participation of the department in the courses offered by other departments  
**1) B. C. A. and MCA(Dept. of Computer Science)**
- Courses in collaboration with other universities, industries, foreign institutions, etc.: **Nil**
- Details of courses/programmes discontinued (if any) with reasons: **Nil**
- Number of teaching posts

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	1
Asst. Professors	6	3

- Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years





Dr. P. B. Dahikar	M. Sc. Ph. D.	Head & Associate Professor	Biomedical Instrumentation	26 Years	10 students
Mr. P. M. Sontakke	M. Sc., NET, PG Deploma in Nanoscience & Nanotechnology	Assistant Professor	Nano-science and Nanotechnology and Embedded System.	07 Yrs	-
Dr. Ashish Rewatkar	M. Sc., Ph. D., SET	Assistant Professor	Embedded System, Instrumentation System	08	-
Dr. Poonam Yadav	M. Sc. Ph. D.	Assistant Professor	-Electronics communication and optical fibre	01	---
Mrs. Pratiksha Kuhikar	M. Sc.	Ad-hoc Lecturer	Microprocessor and Interfacing	08	--

11. List of senior visiting faculty: **Nil**

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty: **Nil**

Year	Programme	% Lectures delivered	% practical classes
2013-14	BSc	-----	-----
	MSc	80%	100%
2014-15	BSc	-----	-----
	MSc	80%	100%
2015-16	BSc	-----	-----
	MSc	80%	100%
2016-17	BSc	-----	-----
	MSc	40%	60%

13. Student -Teacher Ratio (programme wise)

Sr. No.	Programmes	No. of students	No of Teachers	Students Teacher Ratio
1.	M. Sc.	18	6	3:1
2.	B. Sc.	99	3	33:1
3.	Overall ratio	117	7	17:1



14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Sr. No.	Name of Support Staff	Designation	Sanctioned	Fulfilled
1.	Mr. R. Y. Zade	Lab. Assistant	1	1
2.	Mr. S. B. Khandagale	Lab. Attendant	1	1

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Sr. No.	Name of Teaching faculties	Qualification
1.	Dr. P. B. Dahikar	M. Sc. (Electronics), Ph. D.
2.	Mr. P. M. Sontakke	M. Sc.( Electronics), NET, PG Deploma in Nanoscience & Nanotechnology
3.	Dr. Ashish Rewatkar	M. Sc.(Electronics), Ph. D., SET
4.	Dr. Poonam Yadav	M. Sc. (Electronics), Ph. D.
5.	Mrs. Pratiksha Kuhikar	M. Sc. (Electronics)
6.	Ms. Poonam Lekurwale	M. Sc. (Electronics)
7.	Ms. Sonali Patil	M. Sc. (Electronics)

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

**01 Dr. P. B. Dahikar UGC, 2012-17: Embbeded digital weighing scale system for purity and cost standardization**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Sr. No.	Principle Investigator	Funding Agency	Grant received
1.	<b>Dr. P. B. Dahikar</b>	UGC	<b>10,15,000/-</b>
2.	<b>Dr. Mahesh Sharma</b>	UGC	<b>1,68,00/-</b>

18. Research Centre /facility recognized by the University: The department is RTM Nagpur University recognized Center for Higher Learning & Research from 2012. The following facilities are available in the Department:

1. The department provides PCB designing facilities: especially TINA software is used for this purpose.
2. For the design of the MATLAB software is available.
3. For the Embedded system programmes and designs, latest development and evolution boards based on ARM, AVR, PIC microcontrollers are available.
4. For the Digital Signal Processing, DSP Hardware and Software tools are available.
5. For the System on Chip design (SOC), FPGA and PLD boards with software are available.
6. For trouble shooting and measurement of microwave signals range of oscilloscopes up to 100MHz is available (DSO)
7. For the study of microwave signals Microwave Bench is available.
8. For the study of biomedical signals like EEG, ECG, EMG etc, Biomedical instruments



and with sensor interface is available.

9. For initialization of the circuit prototype trainer kits are available.
10. Advanced computer Laboratory with interfacing facility is available.

19. Publications:

\* a) Publication per faculty

Sr No	Name of Faculty	Publication				
		National Conf.	International conf	National Journal	International Journal	Books/ Chapter in Books
<b>1</b>	<b>Dr. P. B. Dahikar</b>	<b>39</b>	<b>--</b>	<b>04</b>	<b>57</b>	<b>02</b>
<b>2</b>	<b>Prof. P. M. Sontakke</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>1</b>
<b>3</b>	<b>Dr. A. K. Rewatkar</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>04</b>	<b>0</b>
<b>4</b>	<b>Dr P. Yadav</b>	<b>02</b>	<b>0</b>	<b>02</b>	<b>02</b>	<b>0</b>
<b>5</b>	<b>Prof. P. S. Kuhikar</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>6</b>	<b>Prof. Sonali Patil</b>	<b>02</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>7</b>	<b>Prof. Poonam Lekurwale</b>	<b>02</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

\* Number of papers published in peer reviewed journals (national / international) by faculty and students

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) -	<b>Nil</b>
Monographs -	<b>Nil</b>
Chapter in Books -	<b>02</b>
Books Edited -	<b>Nil</b>
Books with ISBN/ISSN numbers with details of publishers -	<b>Nil</b>
Citation Index -	<b>50</b>
SNIP-	<b>Nil</b>
SJR-	<b>0.34</b>
Impact factor	<b>Avg. impact factor 1.25 for 20 Publications</b>
h-index-	<b>02</b>

20. Areas of consultancy and income generated:



Sr. No.	Name of Faculty	Collaboration	Consultancy	Income Generated
1	<b>Dr. P. B. Dahikar</b>	<b>Unique India Automated Pvt. Ltd.</b>	<b>Microtron System</b>	<b>20,000/-</b>
2	<b>Dr. Ashish Rewatkar</b>	-	<b>Auto Power Tech</b>	<b>6,000/-</b>

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Sr. No.	Name of faculty	National committees	International Committees	Editorial Boards
1	Dr. P. B. Dahikar	1. Instrumentation Society of India 2. Luminescence Society of India	---	---

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme: **10%**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies: **Nil**

23. Awards / Recognitions received by faculty and students:

- Prof. P. M. Sontakke received appreciation from the ADG of NCC, Maharashtra Directorate for completion of PRCN course – 2015 with ‘A’ Grade.**
- SUO Shubham P. Bhanuse, NCC cadet, studying in B. Sc. – Sem-IV, delected as a best cadet in the Centrally organized Paratroopers and Para Jumping Camp by representing Maharashtra DTE, held at Agra-2015.**

24. List of eminent academicians and scientists / visitors to the department:

Sr. No.	Name of Delegates	Dept / College/Univ.
1.	Dr. Pandit Vidyasagar, Vice Chancellor	Vice Chancellor, Swami Ramanand Tirth Marathwada University, Nanded.
2.	Dr. Sahare	Delhi University
3.	Dr. A. D. Shaligram	Department of Electronics, Kolhapur University, Kolhapur.
4.	Dr. Deepak Dhote	Department of Electronics, Brijlal Biyani College, Amravati
5.	Dr. Gaurish Naik	Department of Electronics, Goa University, Goa
6.	Dr. Agrahari	Department of Electronics, Brijlal Biyani College, Amravati
7.	Dr. A. S. Lanje	Department of Electronics, Dr. Ambedkar College, Chandrapur.
8.	Prof. N. S. Kokode	Department of Electronics, N. H. College, Bramhapuri
9.	Dr. R. R. Mudholkar	Department of Electronics, Savitribai Phule



		University, Pune.
10.	Dr. S. V. Halse	Registrar, Evaluation, Gulgarga University, Karnataka
11.	Dr. Hangundurao	Department of Electronics, Gulgarga University, Karnataka
12.	Dr. Tiwari	Bhopal University, Bhopal
13.	Dr. Narin G. Shimpi	Mumbai University
14.	Dr. B. Shreedhar	CSZR,-IICT, Hyderabad
15.	Dr. S. S. Umare	VNIT, Nagpur
16.	Prof. N. S. Gajbhiye	IIT-Kanpur

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National:

**National Conference on Biomedical Instrumentation related Hardware & Software: 4<sup>th</sup> Feb 2017. (Sponsored by CSIR)**

b) International: Nil

26. Student profile programme/course wise: (Result from 2012-13)

Name of the Course/	Academic Session	Applicati	ons	Selected	Enrolled		Pass
					*M	*F	
B. Sc. (Electronics)	2012-13	B. Sc. -I	37	37	8	29	56.75%
		B. Sc.- II	27	27	9	18	22%
		B. Sc. -III	21	21	3	18	62%
	2013-14	B. Sc. - Sem-	28	28	12	16	14%
		B. Sc.	36	36	6	30	25%
		B. Sc. -VI	16	16	5	11	53%
	2014-15	B. Sc. -Sem-	44	20	20	24	45%
		B. Sc.- Sem-	20	20	05	15	25%
		B. Sc. -III	23	23	04	19	78.2%
	2015-16	B. Sc. -Sem-	42	42	22	20	40%
		B. Sc.- Sem-	42	42	20	22	31%
		B. Sc. -III	13	13	3	10	77%
2016-17	B. Sc. -Sem-	42	42	24	18	RA	
	B. Sc.- Sem-	42	42	24	18	RA	
	B. Sc. -	18	18	7	11	RA	
M. Sc. (Electronics)	2012-13	M. Sc.-I	06	06	02	04	16%
		M. Sc. -II	2	02	01	01	50%
	2013-14	M. Sc.-I	03	03	2	1	50%
		M. Sc. -II	2	02	00	02	50%
	2014-15	M. Sc.-I	07	07	0	7	50%
		M. Sc. -II	5	05	02	03	60%
	2015-16	M. Sc.-I	12	12	04	08	41.67%
		M. Sc. -II	13	13	3	10	58.3%
	2016-17	M. Sc.-I	10	10	01	9	RA
		M. Sc. -II	08	08	01	7	RA

\*M = Male \*F = Female

27. Diversity of Students (List of Students from same and other state)



Name of the Course	Academic Session	% of students from the same state	% of students from other States	% of students from abroad
B. Sc. (Electronics)	2012-13	100%	0%	0%
	2013-14	100%	0%	0%
	2014-15	100%	0%	0%
	2015-16	100%	0%	0%
	2016-17	100%	0%	0%
M. Sc. (Electronics)	2012-13	100%	0%	0%
	2013-14	100%	0%	0%
	2014-15	100%	2%	0%
	2015-16	100%	0%	0%
	2016-17	100%	2%	0%

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **07**

- 1) Kamlesh Patle (NET)
- 2) Ashish Rewatkar (SET)
- 3) Ashwin Ankar (SET)
- 4) Kishor Rokade (NET)
- 5) Kamlesh Chandekar (NET / GATE)
- 6) Poonam Gadgil (SET)
- 7) Bhavik Thakkar (NET)

29. Student progression

Student progression	Against % enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	60%	79%	80%	75%	
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	10%	10%	10%	10%	
Ph.D. to Post-Doctoral	-	-	-	-	-
<b>Employed</b>	-	-	-	-	02
Entrepreneurship/Self-	-	-	01	01	01

30. Details of Infrastructural facilities

a) Library:

- 1) No. of text/ref. books: **209**
- 2) No. of Journals: **02**
- 3) Manuals: **10**
- 4) In house Student's Project reports: **20**
- 5) Ph. D. thesis: **08**

b) Internet facilities for Staff & Students:  
\* **BSNL Broad Band Lease Line;**

c) Class rooms with ICT facility:

\* **Class rooms & Laboratories are equipped with MI interactive board, Visualizer, LCD Projector.**



## d) Laboratories:

**Electronics Laboratory is equipped with following facilities:**

➤ **Advanced Instrumentation:**

- 1) Biomedical Instrumentation: Advanced instruments for study of EEG, EMG, ECG signals
- 2) Digital Signal Processing Kit with Software
- 3) FPGA & PLD kit for designing SoC with software
- 4) ARM Processor kit with software for Embedded system design
- 5) TINA software for Circuit/ PCB designing and Analysis
- 6) Universal Programming Kit for designing Embedded system
- 7) 8051/ 89s51/89s52 microcontroller evolution and development board for embedded system design.
- 8) Kits for studying Analog and digital communication
- 9) Microwave Bench for study of Microwave signals and wave guides.
- 10) Advanced Analog and Digital trainer kits
- 11) 8085 Microprocessor Trainer kit
- 12) 8086 Microprocessor Trainer Kit
- 13) 8051 Microcontroller Trainer kit
- 14) Computer Hardware lab for study of Computer Hardware and Interfacing
- 15) Well equipped Computer Laboratory with Printer, Scanner, Internet facilities.
- 16) Digital Storage Oscilloscopes (up to 100 MHz)
- 17) Analog Cathode Ray Oscilloscopes ( up to 25 MHz)
- 18) Bench top Digital Multimeter (5½ Digit Display)
- 19) Advanced Digital Multimeter( 4 ½ Digit Display)
- 20) Digital Signal Generators
- 21) CC/VC Power Supplies.

31. Number of students receiving financial assistance from college, university, Government or other agencies: **27**

32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts:

Student Enrichment Program		2012-13	2013-14	2014-15	2015-16	2016-17
Students Seminar	UG	25	30	35	35	30
	PG	10	10	15	15	20
Inter Departmental Twinning Programs		-	8	8	6	06
Workshop		01	01	01	01	01
Guest / Expert Lectures		-	02	02	02	02
Educational Tours and Visits		01	01	01	02	01

33. Teaching methods adopted to improve student learning:

- 1) Apart from traditional teaching methods maximum use of ICT involved in teaching.
- 2) Problem based learning approach is used for UG students
- 3) Frequent group discussions and seminars of students



- 4) Regular Assignments and Feedback
  - 5) Remedial Coaching
  - 6) Advanced and Slow Learners
  - 7) Add on Courses
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
1. Mr. P. M. Sontakke, faculty form Department of electronics, working as Associate NCC Officer for 20 Mah. Bn. NCC unit.
  2. Mr. P. M. Sontakke, is member of college level NSS committee
  3. Students of B. Sc. Electronics get enrolled in NCC and participate in every NCC activity
  4. Students from this department participate in the annul social function “Shri Shardotsava” and perform in various cultural activities.
  5. Students and Teachers organize social activities such as
    - Use of Mobile
    - Save water drive
    - Save electricity
    - E-transactions and awareness
35. SWOC analysis of the department and Future plans:
- Strength:**
- 1) Well Equipped laboratories.
  - 2) Classrooms and Laboratories with ICT facilities
  - 3) Experienced teaching staff
  - 4) Experienced Laboratory Assisting Staff
- Weakness:**
- 1) CBCS course not available for UG
  - 2) Students with average percentage are admitted.
- Opportunities:**
- 1) Department is recognized for High Learning and Research
  - 2) Research Guides are available in the department
  - 3) UG students have opportunity to make career in PG
  - 4) Implemented CBCS course at PG
- Challenges:**
- 1) Use of new technologies
  - 2) Keeping the pace with recent developments in Electronics

#### Future Planes

- To submit more number of major & minor projects.
- To organize International Conferences.
- Introduce more short term courses.
- To arrange more number of guest lectures on advance trends in Electronics.
- To increase Industry-college interactions.
- To increase research contribution





## Computer Science

1. Name of the department :- **Computer Science**
2. Year of Establishment :- 1989
3. Names of Programmes /Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :-

Sr. No.	Programme	Name Of Course	Abbreviation
1.	<b>UG</b>	B. Sc.(Computer Science)	<b>B.Sc (C/S)</b>
2.		Bachelor of Computer Application	<b>BCA</b>
3.		B.Com. (Computer Application)	<b>B. Com (CA)</b>
4.		Bachelor of Vocation (Software Development)	<b>B. Voc (S/D)</b>
5.	<b>PG Diploma</b>	Post B.Sc. Diploma in Computer Science and Applications	<b>PGDCS&amp;A</b>
6.		Post Graduate Diploma In Computer Commercial Application	<b>PGDCCA</b>
7.	<b>PG</b>	Master of Science (Computer Science)	<b>MSc (C/S)</b>
8.		Master in Computer Application	<b>MCA</b>
9.		Master of Computer Management	<b>MCM</b>
10	<b>Ph. D</b>	Doctor of Philosophy	<b>Ph. D</b>

4. Names of Interdisciplinary courses and the departments / units involved - NIL
5. Annual /semester/choice based credit system (programme wise)

Sr. No.	Name Of Course	Annual	Semester	CBCS
1.	BSc (C/S)(I,II,III)	-	✓	-
2.	BCA(I, II, III)	-	✓	-
3.	B.Com(CA) [ II,III ]	✓	-	-
4.	B.Com(CA)- I	-	✓	-
5.	BVoc (S/D) [I,II,III]	-	✓	-
5.	PGDCS&A	-	✓	✓
6.	PGDCCA	-	✓	✓
7.	MSc (C/S)	-	✓	✓
8.	MCA	-	✓	
9.	MCM-I	-	✓	✓
	MCM-II		✓	CBS

6. Participation of the department in the courses offered by other departments :- **B.Com(CA) , M.Sc(Elec.)**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. :- **Nil**
8. Details of courses / programmes discontinued (if any) with reasons :- **(Nil)**



9. Number of Teaching posts

	Sanctioned	Filled
Professors	01	--
Associate Professors	03	03
Asst.Professors	53	28

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil.etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students Guided for the Last 4 years
Dr. P. K. Butey	PhD	Associate Prof.	DM, Fuzzy Logic, NN	28	10
Dr. Sonali P. Yende	Ph. D	Assistant Prof.	Marketing	15	-
Dr. A.J.Chamatkar	PhD	Assistant Prof.	DM, Neural Network	10	-
Prof. R. B. Surve	M.Phil	Assistant Prof.	Spatial DM, Fuzzy Logic	11	-
Prof. S.B. Shirpurkar	M.Phil	Assistant Prof.	Biomatrics,DM	05	-
Prof. K.G.Bakde	ME	Assistant Prof.	Cloud Computing	02	-

11. List of senior visiting faculty -

Sr.No.	Name of the Faculty	Name of the College
1.	Dr. M.P.Singh	Dr. B.R.Ambedkar University,Agra
2.	Dr. Sumit Gill	Dr. Maharshi Vidyapith, Rohtak
3.	Dr. S. R. Pande	Shivaji Science College,Nagpur
4.	Dr. M.P. Dhore	Dept. Of Elect. &Comp. Sci., RTMNU ,Campus, Nagpur
5.	Dr. V. N. Chavan	S.K.Porwal College, Kamptee
6.	Dr. G. S. Katkar	Taywade College, Koradi
7.	Dr. R. N. Jugele	Shivaji Science College, Nagpur
8.	Dr. A. B. Sasankar	GHRIT College , Nagpur

12. Percentage of lectures delivered and practical classes handled (programme wise)  
By temporary faculty :- **20 %**

13. Student-Teacher Ratio (programmewise) :- **20:01**

YEAR	UG	Diploma	PG	Total
2012-13	375	46	268	689
2013-14	229	18	221	468
2014-15	296	15	245	556
2015-16	415	14	171	600
2016-17	792	9	137	938

14. Number of academic support staff (technical) and administrative staff; sanctioned andfilled :- **12:12**

15. Qualifications of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.



Sr. No	Faculty	Dept	Qualification	Experience
1	Dr. Pradeep k. Butey	CS	M.Sc., Ph.D	28
2	Dr. Sonali P. Yende	CS	MCM, Ph.D	15
3	Ms. Rupali B Surve	MCA	M.Sc.	11
4	Mrs. Gauri G. Kathalay	CS	MCM	11
5	Dr. Aruna J. Chamatkar	MCA	MCA, Ph.D	10
6	Mr. Sachin Y. Zade	MCA	MCA	9
7	Ms. Swapnali G. Kadao	MCA	MCA	9
8	Ms. Kirti Vaidya	MCA	MCA	9
9	Ms. Swati. A. Chandankhede	MCA	MCA	9
10	Ms. Rasika V. Bodkhe	CS	M. Sc	9
11	Ms. Vaishali G. Belsare	CS	M. Sc	9
12	Ms. Bhagyashri A. Jagtap	MCA	MCA	9
13	Mr. Amar S. Pimpalkar	MCA	MCA	6
14	Ms. Shweta B. Shirpurkar	MCA	MCA	5
15	Ms. Asfiya Sheikh	MCA	MCA	4
16	Ms. Sonali P. Bonde	MCA	MCA	4
17	Ms. Tarka G. Bakde	MCA	MCA	4
18	Mr. Amol A. Bodkhe	MCA	MCA	4
19	Mrs. Rashmi R. Mahajan	CS	MCA	4
20	Ms. Ankita A. Khondekar	CS	MCA	4
21	Ms. Seema P. Agrawal	CS	M. Sc	4
22	Ms. Nisha P. Zodey	CS	MCA	3
23	Ms. Trupti M. Pusdekar	CS	MCA	3
24	Ms. Namrata. G. Gour	CS	MCA	3
25	Mr. Siddharth C. Tabhane	CS	M. Sc.	3
26	Mr. Javed Shah	MCA	MCA	2
27	Ms. Karuna G. Bakde	CS	MCA	2
28	Mrs. Pratibha P. Kadu	MCA	MCA	2
29	Ms. Priyanka Anturkar	CS	MCA	2
30	Mr. Vijeet H. Meshram	CS	M. Sc.	2
31	Ms. Akanksha B. Dube	CS	M. Sc	1

16. Number of faculty with on going projects from a) National b) International funding agencies and grants received :- **(Nil)**
17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total grants received :- **(Nil)**
18. Research Centre /facility recognized by the University :- **YES**
19. Publications:
- \* a) Publication per faculty
  - \* Number of papers published in peer reviewed journals (national/ international) by faculty and students



Sr. No	Name of Teacher	International Journal	National Journal	Conference Proceedings	Peer Reviewed	Indexed	Impact Factor	Citation	E Journal	h-index	SNIP	SJR	Total
1	Dr. P. K. Butey	23	01	00	24	--	Impact Factor: 4.226	13	20	--	--	--	24
2	Dr. Aruna J. Chamatkar	04	00	00	04	--	Impact Factor 3.264	--	04	---	---	---	04
3	Dr. Sonali P. Yende	04	02	02	--	--	--	--	--	--	--	--	10
4	Prof. S. Y. Zade	01	--	---	---	--	---	---	---	---	---	---	01
5	Prof. A. S.Pimpalkar	01	--	---	---	--	---	---	---	---	---	---	01
6	Prof. R. B. Surve	02	--	---	---	--	---	---	---	---	---	---	02
7	Prof. B. A. Jagtap	01	--	---	---	--	---	---	---	---	---	---	01
8	Prof. S. B. Shirpurkar	02	--	--	--	--	--	--	--	--	--	--	02
9	Prof. V. G. Belsare	01	--	--	--	--	--	--	--	--	--	--	01
10	Prof. K. G. Bakde	03	--	--	--	--	--	--	--	--	--	--	03

**Books Published by the Faculty**

Name of Faculty	No. of Books edited	Number of Teachers who have edited books	Number of books published a sole author	Number of books with multiple authors	Number of Chapter contributed	Number of Teachers contributing chapters to Books
Prof. A. S. Pimpalkar	03	02	00	03	--	--
Prof. Siddharth C. Tabhane	02	01	02	03	--	--

Book Title	Authors	Publication	ISSN/ISBN	Years
Object Oriented Programming using 'C++'	Siddharth C. Tabhane Amar S. Pimpalkar	Central Techno Publication	ISBN-9788189178062	January 2015
Data Structures	Siddharth C. Tabhane Amar S. Pimpalkar	Central Techno Publication	ISBN-9788189178932	August 2015
Compiler Constructio	Siddharth C.	Central Techno	ISBN-9788189179949	January 2016



n	Tabhane Amar S. Pimpalkar	Publication		
C Language	Siddharth C. Tabhane	Central Techno Publication	978-81-891789-2-1	Aug 2013
Java	Siddharth C. Tabhane	Central Techno Publication	978-81-891780-7-9	Jan 2015

20. Areas of consultancy and income generated: **The Department provides its infrastructure to various institutes by charging nominal fees.**
21. Faculty as members in
  - a) National committees b) International Committees c) Editorial Boards....
22. Student projects
  - a) Percentage of students who have done in-house projects including interdepartmental /programme :- **40%**
  - b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories / Industry / other agencies :- **60%**
23. Awards /Recognitions received by faculty and students
24. List of eminent academicians and scientists /visitors to the department
  1. **Dr. V. M. Thakre, Professor, SGB Amravati University, Amravati.**
  2. **Dr. B. K. Ratha, Professor, Utkal University, Bhubaneswar.**
25. Seminars/Conferences/Workshops organized & the source of funding
  - a) National: Organized National Conference on **‘Biomedical Instrumentation related Computerized Hardware and Software’** on 2nd Feb 2017 with **Dept. of Electronics** Funded by **CSIR, New Delhi.**
  - b) International : **Nil**
26. Student profile programme /coursewise:

UG Session 2012-2013					
Name of the Course/programme <i>(refer question no. 4)</i>	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BSc(C/S)-I	65	65	12	53	
BSc(C/S)-II	45	45	10	35	
<b>BSc(C/S)-III</b>	<b>32</b>	<b>32</b>	<b>06</b>	<b>26</b>	<b>35.48%</b>
BCA-I	70	70	33	37	
BCA-II	75	75	28	47	
<b>BCA-III</b>	<b>88</b>	<b>88</b>	<b>34</b>	<b>54</b>	<b>70.45%</b>
B. Com (CA)-I	142	142	71	71	
B. Com (CA)-II	105	105	40	65	
<b>B. Com (CA)-III</b>	<b>76</b>	<b>76</b>	<b>36</b>	<b>40</b>	<b>77.63%</b>

UG Session 2013-2014					
Name of the Course/programme <i>(refer question no. 4)</i>	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BSc(C/S)-I	69	69	18	51	
BSc(C/S)-II	50	50	08	42	
<b>BSc(C/S)-III</b>	<b>34</b>	<b>34</b>	<b>11</b>	<b>23</b>	<b>61.29%</b>



BCA-I	120	120	58	62	
BCA-II	53	53	21	32	
<b>BCA-III</b>	<b>56</b>	<b>56</b>	<b>09</b>	<b>47</b>	<b>89.29%</b>
B. Com (CA)-I	96	96	41	55	
B. Com (CA)-II	98	98	46	52	
<b>B. Com (CA)-III</b>	<b>95</b>	<b>95</b>	<b>44</b>	<b>51</b>	<b>83.13</b>

UG Session 2014-2015					
Name of the Course/programme (refer question no.)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BSc(C/S)-I	74	74	24	50	
BSc(C/S)-II	59	59	16	43	
<b>BSc(C/S)-III</b>	<b>32</b>	<b>32</b>	<b>06</b>	<b>26</b>	<b>62.16%</b>
BCA-I	138	138	75	63	
BCA-II	82	82	27	55	
<b>BCA-III</b>	<b>53</b>	<b>53</b>	<b>18</b>	<b>35</b>	<b>86.96%</b>
B. Com (CA)-I	187	187	97	90	
B. Com (CA)-II	67	67	24	43	
<b>B. Com (CA)-III</b>	<b>84</b>	<b>84</b>	<b>41</b>	<b>43</b>	<b>69.05%</b>
BVoc.-I	23	23	05	18	

UG Session 2015-2016					
Name of the Course/programme (refer question no.)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
BSc(C/S)-I	83	83	24	59	
BSc(C/S)-II	58	58	13	45	
<b>BSc(C/S)-III</b>	<b>38</b>	<b>38</b>	<b>09</b>	<b>29</b>	<b>73.68%</b>
BCA-I	189	189	109	80	
BCA-II	98	98	45	53	
<b>BCA-III</b>	<b>79</b>	<b>79</b>	<b>32</b>	<b>47</b>	<b>87.34%</b>
B. Com (CA)-I	101	101	45	56	
B. Com (CA)-II	132	132	68	64	
<b>B. Com (CA)-III</b>	<b>57</b>	<b>57</b>	<b>16</b>	<b>41</b>	<b>49.12</b>
BVoc.-I	45	45	12	33	
Bvoc.-II	04	04	03	01	

UG Session 2016-2017					
Name of the Course/programme (refer question no.)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	



BSc(C/S)-I	80	80	30	50	
BSc(C/S)-II	78	78	20	58	
<b>BSc(C/S)-III</b>	<b>42</b>	<b>42</b>	<b>14</b>	<b>18</b>	
BCA-I	220	220	136	84	
BCA-II	139	139	76	63	
<b>BCA-III</b>	<b>73</b>	<b>73</b>	<b>29</b>	<b>44</b>	
B. Com (CA)-I	75	75	31	44	
B. Com (CA)-II	75	75	20	55	
<b>B. Com (CA)-III</b>	<b>116</b>	<b>116</b>	<b>56</b>	<b>60</b>	
Bvoc.-I	50	50	15	35	
Bvoc.-II	23	23	07	16	
<b>Bvoc.-III</b>	<b>03</b>	<b>03</b>	<b>02</b>	<b>01</b>	

Diploma	Name of the Course/programme	Applications received	Selected	Enrolled		Pass
				*M	*F	
2012-2013	PGDCCA	28	28	06	22	45.83%
	<b>PGDCS&amp;A</b>	<b>18</b>	<b>18</b>	<b>10</b>	<b>08</b>	<b>7.14%</b>
2013-2014	PGDCCA	15	15	07	08	78.57%
	<b>PGDCS&amp;A</b>	<b>03</b>	<b>03</b>	<b>02</b>	<b>01</b>	<b>00%</b>
2014-2015	PGDCCA	14	14	04	10	75%
	<b>PGDCS&amp;A</b>	<b>01</b>	<b>01</b>	-	<b>01</b>	<b>100%</b>
2015-2016	PGDCCA	07	07	01	06	85.71%
	<b>PGDCS&amp;A</b>	<b>04</b>	<b>04</b>	<b>02</b>	<b>02</b>	<b>50.00%</b>
2016-2017	PGDCCA	07	07	01	06	
	<b>PGDCS&amp;A</b>	<b>02</b>	<b>02</b>	<b>00</b>	<b>02</b>	

PG	Name of the Course/programme	Applications received	Selected	Enrolled		Pass
				*M	*F	
2012-2013	MCA- I	60	60	21	39	
	MCA- II	52	52	25	27	
	<b>MCA- III</b>	<b>58</b>	<b>58</b>	<b>27</b>	<b>31</b>	<b>100%</b>
	MSc(C/S)-I	22	22	04	18	
	<b>MSc(C/S)-II</b>	<b>21</b>	<b>21</b>	<b>3</b>	<b>18</b>	<b>100%</b>
	MCM-I	33	33	05	28	
	<b>MCM-II</b>	<b>22</b>	<b>22</b>	<b>4</b>	<b>18</b>	<b>33.33%</b>
2013-2014	MCA- I	06	06	03	03	
	MCA- II	63	63	16	47	
	<b>MCA- III</b>	<b>38</b>	<b>38</b>	<b>13</b>	<b>25</b>	<b>100%</b>
	MSc(C/S)-I	22	22	04	18	
	<b>MSc(C/S)-II</b>	<b>16</b>	<b>16</b>	<b>03</b>	<b>13</b>	<b>31.25%</b>
	MCM-I	36	36	13	23	
2014-2015	<b>MCM-II</b>	<b>40</b>	<b>40</b>	<b>10</b>	<b>30</b>	<b>74.29%</b>
	MCA- I	14	14	05	09	
	MCA- II	37	37	16	21	



	<b>MCA- III</b>	<b>63</b>	<b>63</b>	<b>18</b>	<b>45</b>	<b>100%</b>
	MSc(C/S)-I	22	22	04	18	
	<b>MSc(C/S)-II</b>	<b>15</b>	<b>15</b>	<b>03</b>	<b>12</b>	<b>40%</b>
	MCM-I	53	53	15	38	
	<b>MCM-II</b>	<b>41</b>	<b>41</b>	<b>15</b>	<b>26</b>	<b>86.11%</b>
<b>2015-2016</b>	MCA- I	32	32	08	24	
	MCA- II	09	09	04	05	
	<b>MCA- III</b>	<b>32</b>	<b>32</b>	<b>13</b>	<b>19</b>	<b>100%</b>
	MSc(C/S)-I	22	22	05	17	
	<b>MSc(C/S)-II</b>	<b>20</b>	<b>20</b>	<b>03</b>	<b>17</b>	<b>42.11%</b>
	MCM-I	12	12	03	09	
	<b>MCM-II</b>	<b>44</b>	<b>44</b>	<b>13</b>	<b>31</b>	<b>81.08%</b>
<b>2016-2017</b>	MCA- I	27	27	13	14	
	MCA- II	30	30	08	22	
	<b>MCA- III</b>	<b>11</b>	<b>11</b>	<b>05</b>	<b>06</b>	
	MSc(C/S)-I	22	22	03	19	
	<b>MSc(C/S)-II</b>	<b>24</b>	<b>24</b>	<b>05</b>	<b>19</b>	
	MCM-I	13	13	03	10	
	<b>MCM-II</b>	<b>11</b>	<b>11</b>	<b>02</b>	<b>09</b>	

\*M=Male \*F=Female

27. Diversity of Students

Name of the Course	% of students from the same state	% Of Students From Other State	% Of Student From Abroad
<b>MCA</b>	<b>90 %</b>	<b>10 %</b>	<b>-</b>

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civilservices, Defense services, etc.? :- **(Nil)**

29. Student progression

Student progression	Against % enrolled
UG to PG	<b>20%</b>
PG to M.Phil.	-
PG to Ph.D.	<b>1.5 %</b>
Ph.D. to Post-Doctoral	-
<b>Employed</b>	
•Campus selection	<b>10 %</b>
•Other than campus recruitment	<b>20 %</b>
Entrepreneurship/Self-employment	<b>2 %</b>

30. Details of Infrastructural facilities

- a) Library - Yes  
 b) Internet facilities for Staff & Students -Yes with **4mbps** speed internet  
 c) Class rooms with ICT facility - Yes  
 :d) Laboratories - Yes





LAB	Area
LAB-1 (Computer Laboratory)	1122 sq.ft.
LAB-2 (Cyber Laboratory)	561 sq.ft.
New Building	
LAB-1	66 sq.m.
LAB-2	66 sq.m.
LAB-3	66 sq.m.
LAB-4	66 sq.m.
Computer Center	150 sq.m.

LAB	SERVER	MACHINE	TOTAL
LAB-1 (Computer Laboratory)	1	73	1+ 73
LAB-2 (Cyber Laboratory)	1	36	1 + 36
New Building			
LAB-1	1	28	1+28
LAB-2	1	28	1+28
LAB-3	1	28	1+28
LAB-4	1	24	1+24
Computer Center	2	78	2+78
<b>Total</b>	<b>08</b>	<b>295</b>	

**Server: 06**

Wipro Net Power Server Z1550  
 Intel Xeon E3-1220(3.10 KHz/8MB)  
 Core i3 2100 ,H61 Intel Chipset  
 Motherboard 8 GB DDR-3 1066,500 GB  
 SATA, 18.5" TFT, Multimedia Keyboard,  
 Optical Mouse, DVD Writer

**Nodes: 186**

Wipro EVOVLE  
 Core i3 2100 ,H61 Intel Chipset  
 Motherboard 2 GB DDR-3 RAM  
 500 GB SATA, 19" TFT, Multimedia  
 Keyboard, Optical Mouse

31. Number of students receiving financial assistance from college, university, Government or other agencies :- 20 %
32. Details on student enrichment programmes (special lectures/workshops/seminar) with external experts :- **Nil**
33. Teaching methods adopted to improve student learning
  - Students are encouraged to present research papers at various conferences.
  - Seminars by M.Sc. students.
  - Demonstrations.
  - Lectures with ICT.
  - Tests.
  - Students are encouraged to participate in Co-curricular and Extra-curricular activities.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
  1. Registered centre for conducting Online Exam of M. S. Board of Secondary and Higher secondary Education, Pune in Information Technology subject



2. Online Exam conducted by MKCL for Fishery department on 11<sup>th</sup> April 2015
  3. Online typing Examination conducted by MKCL for GCC-TBC 30WPM examination on Month of Jan and april 2016
35. SWOC analysis of the department and Future plans

**Strength:**

- Qualified, Competent dedicated and experienced staff.
- Total number of computers with lease line internet facility is 200.
- Excellent results.
- One Ph.D. supervisor.
- R.T.M. Nagpur University recognized the department as a research centre.
- ICT facilities available.
- Departmental Core library.

**Weakness:**

- Insufficient number of qualified faculty for UG and PG courses.
- Average students seek admission in B.Sc. /M.Sc. Courses.

**Opportunities:**

- Number of options is available with computer science as one of the subject.
- To pursue the research work at this college centre.
- ICT training (HRD) for masses.
- Student-Faculty exchange programme.

**Challenges:**

- Creating interest in students for UG And PG.
- Internship for PG students in Multi National Companies.
- Campus Placement at UG and PG level.

**Future Plans**

- Organization of more number of Workshops/ Conferences/Seminar/expert Lectures at various levels.
  - Collaborations with Other Institutions.
- 



## Biotechnology

1. Name of the department - **Biotechnology**
2. Year of Establishment – **UG - 2003,**  
**PG - 2004**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :

Sr. No.	Session	Name of course
1	2012-13	- UG – Undergraduate – B. Sc. Biotechnology - PG - Post Graduate – M.Sc. Biotechnology
2	2013-14	- UG – Undergraduate – B. Sc. Biotechnology - PG - Post Graduate – M.Sc. Biotechnology
3	2014-15	- UG – Undergraduate – B. Sc. Biotechnology - PG - Post Graduate – M.Sc. Biotechnology
4	2015-16	- UG – Undergraduate – B. Sc. Biotechnology - PG - Post Graduate – M.Sc. Biotechnology
5	2016-17	- UG – Undergraduate – B. Sc. Biotechnology - PG - Post Graduate – M.Sc. Biotechnology

4. Names of Interdisciplinary courses and the departments/units involved- **Nil**
5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	Session	Name of course
1	2012-13	- Annual - B. Sc III year, B.Sc II year and - B.Sc I year - CBS - M.Sc. I year and M.Sc. II year
2	2013-14	- Annual - B. Sc III year and B.Sc II year Semester B.Sc. I sem - CBCS - M.Sc. I year and M.Sc. II year
3	2014-15	- Annual - B. Sc III year - B.Sc. I and B.Sc. II sem - CBCS - M.Sc. I year and M.Sc. II year
4	2015-16	- B.Sc. I year sem - B.Sc. II year sem - B.Sc. III year sem - CBCS - M.Sc. I year and M.Sc. II year
5	2016-17	- B.Sc. I year sem - B.Sc. II year sem - B.Sc. III year sem - CBCS - M.Sc. I year and M.Sc. II year

6. Participation of the department in the courses offered by other departments – **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. –  
**Nil**
8. Details of courses/programmes discontinued (if any) with reasons- **Nil**



9. Number of Teaching posts:

	Sanctioned	Filled
<b>Professors</b>		
<b>Associate Professors</b>		
<b>Asst. Professors</b>	<b>08</b>	<b>04</b>

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,) :

Sr. No.	Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
1	Dr. S. R. Moghe	M.Sc., B.Ed., Ph. D.	Asst. Prof. and Head	Plant Biotechnology and	22	-
2	Mrs D. J. Laud	M.Sc	Adhoc Lecturer	Plant Biotechnology	12	-
3	Mr. M. A. Padole	M.Sc., NET	Asst. Prof.	Immunology	07	-
4	Mr. Nishant V. Burade	M.Sc.	Adhoc Lecturer	Microbiology	3	-
5	Mrs. Gauri A. Aade	M.Sc. NET	Asst. Prof.	Immunology	4	-
6	Ms. A. S. Darokar	M.Sc. Pursuing Ph.D.	Adhoc Lecturer	Env. Biotechnology	3	-
7	Ms. Sarita L. Tiwari	M.Sc. . Ph.D.	Assistant Professor	Plant Biotechnology	7	-
8	Mrs. Meenakshi R.	M.Sc. B.ed.	Adhoc Lecturer	Plant Biotechnology	11	-

11. List of senior visiting faculty: Nil

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty –

Sr. No.	Session	Theory		Practical	
		UG	PG	UG	PG
1.	2012-13	66.66%	76%	69.56%	100%
2.	2013-14	64.28%	66.66%	71.42%	64.70%
3.	2014-15	37.5%	50%	50%	44.44%
4.	2015-16	50%	45.45%	58.33%	62.51%
5.	2016-17	57.14%	70.58%	28%	100%



## 13. Student -Teacher Ratio (programme wise)

Sr. No.	Session	Student -Teacher Ratio UG	Student -Teacher Ratio PG
1	2012-13	- (268: 8) - 33:1	-
2	2013-14	- (266: 8)- 33:1	- 3:1
3	2014-15	- (343:8) – 42:1	- 7:1
4	2015-16	- (329:8) – 41:1	- 11:1.3
5	2016-17	- (359:8) – 44:1	- 27:3.3

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled- **02**

## 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.-

Ph.D	MPhil	NET/SET	PG
02	--	02	04

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received- **Nil**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received- **Nil**18. Research Centre /facility recognized by the University- **Nil**

## 19. Publications:-

## \* a) Publication per faculty:

Sr. No.	Name	Publication				
		2012-13	2013-14	2014-15	2015-16	2016-17
1.	Dr. S. R. Moghe	2	4	2	3	-
2.	Mrs. H. B. Indurkar	-	-	-	-	-
3.	Mrs D. J. Laud	-	4	2	-	-
4.	Mr. M. A. Padole	-	-	-	1	-
5.	Mrs. S. A. Khandelwal	-	-	-	-	-
6.	Ms. B. Dehankar	-	-	-	-	-
7.	Ms. K. Patil	-	-	-	-	-
8.	Ms. Meenal Trivedi	-	-	-	-	-
9.	Mrs. Gauri A. Aade	-	4	2	-	-
10.	Ms. A. S. Darokar	4	2	-	-	-
11.	Mr. Nishant V. Burade	-	-	-	-	-
12.	Mrs. Ishani Bansod	-	-	2	2	-
13.	Mr. Asmit A. Hadke	-	-	-	2	-
14.	Ms. Sarita L. Tiwari	1	2	1	3	2
15.	Mrs. Meenakshi R. Mohadikar	-	4	-	-	-

\* Number of papers published in peer reviewed journals (national / international) by faculty and students :



Sr. No.	Name	Publication				
		2012-13	2013-14	2014-15	2015-16	2016-17
1.	Dr. S. R. Moghe	2N <sup>^</sup>	4 N <sup>^</sup>	1 N <sup>^</sup>	2 N <sup>^</sup>	-
2.	Mrs D. J. Laud	-	4	2	-	-
3.	Mr. M. A. Padole	-	-	-	1	-
4.	Mrs. Gauri A. Aade	-	4	2	-	-
5.	Ms. A. S. Darokar	-	2*	2*	1N	-
6.	Mr. Nishant V. Burade	-	-	-	-	-
7.	Ms. Sarita L. Tiwari	1 I*	2 I*	1 I*	3 I*	2 I*
8.	Mrs. Meenakshi R. Mohadikar	-	-	-	-	-

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Monographs

\* Chapter in Books

\* Books Edited

\* Books with ISBN/ISSN numbers with details of publishers

\* Citation Index

\* SNIP

\* SJR

Impact factor

\* h-index

20. Areas of consultancy and income generated-**Nil**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**International Committees Member - Dr. S. R. Moghe, International cotton genome initiative (ICGI).**

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme-

Sr. No.	Session	In house project percentage of students
1	2012-13	-
2	2013-14	95%
3	2014-15	95%
4	2015-16	95%
5	2016-17	95%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies- **05%**

23. Awards / Recognitions received by faculty and students-

**By students :**



Sr. No.	Session	Name of student	Award
1	2013-14	Ms. Narmada Parate.	<ul style="list-style-type: none"> <li>▪ <b>1<sup>st</sup> prize</b> in Avishkar to B.Sc I year student in university level -2013-14 organised by Kamla Nehru Mahavidyalaya , Nagpur.– Ms. Narmada Parate.</li> </ul>
2	2014-15	Bhushan Bhad Miss Kalyani Mishra . Mr. Ashish Kawale	<ul style="list-style-type: none"> <li>• <b>Consolation prize poster competition</b> in National Seminar on life sciences revolution: PCR and its application held on 20<sup>th</sup> December 2014 organized by Sindhu Mahavidyalaya Nagpur – <i>In-vitro</i> regeneration and phytochemical analysis of Withania Somnifera.</li> <li>• <b>1<sup>st</sup> BEST TEAM AWARD TO B.Sc. IV sem BIOTECH student in II nd national debate competition</b> held at NAGPUR on 7<sup>TH</sup> Feb 2015 organized by G. H. RAISONI LAW SCHOOL Nagpur .– Miss Kalyani Mishra .</li> <li>• <b>2<sup>nd</sup> consolation prize</b> to B.Sc. IV sem BIOTECH student in state level SCIENCE KNOWLEDGE TEST-2015 organized by Dept of Botany, Dr. Ambedkar College Deekshabhoomi Nagpur-Mr. Ashish Kawale</li> </ul>
3	2015-16	Mr. Shivam khapekar, Mr. Ashwin Tidke , Mr. Piyush Shende of B. Sc IV Sem  Miss Kalyani Mishra Mr. Ashish Kawale	<ul style="list-style-type: none"> <li>▪ M.Sc. II Sem <b>1<sup>st</sup> prize</b> in debate competition at J.B . Science College , Wardha</li> <li>▪ Won <b>first prize</b> in the poster competition organized by department of biochemistry and environmental science Kamla Nehru Mahavidyalaya– Mr. Shivam khapekar, Mr. Ashwin Tidke , Mr. Piyush Shende of B. Sc IV Sem , <b>poster topic -- HPLC</b></li> <li>▪ <b>1<sup>st</sup> BEST TEAM AWARD TO B.Sc. IV sem BIOTECH student in II nd national debate competition</b> held at NAGPUR on 7<sup>TH</sup> Feb 2015 organized by G. H. RAISONI LAW SCHOOL Nagpur – Miss Kalyani Mishra .</li> <li>▪ <b>2<sup>nd</sup> consolation prize</b> to B.Sc. IV sem BIOTECH student in state level SCIENCE KNOWLEDGE TEST-2015 organized by Dept of Botany, Dr. Ambedkar College Deekshabhoomi Nagpur-Mr. Ashish Kawale</li> </ul>

By Teachers:

S.No.	Session	Name of Teacher	Award



1	2014-15	Dr. S. R . Moghe Mrs. D. J. Laud Ms. G. V. Ade Ms. I. P. Bansod	<ul style="list-style-type: none"> <li>• <b>Consolation prize poster competition in National Seminar on life sciences revolution: PCR and its application</b> held on 20<sup>th</sup> December 2014 organized by Sindhu Mahavidyalaya Nagpur – <i>In-vitro</i> regeneration and phytochemical analysis of <i>Withania Somnifera</i>.</li> </ul>
2	2016-17	Ms. Ashwini Darokar And Dr. S. R. Moghe	<ul style="list-style-type: none"> <li>• <b>Consolation prize poster competition in</b> on liquid bio-inoculants and approach towards sustainable agriculture development presented in DST sponsored National conference on Multifunctional Advanced Material held on March 17, 18 2017 organized by Dept. of Chemistry, Kamla Nehru Mahavidyalaya Nagpur –</li> </ul>

## 24. List of eminent academicians and scientists / visitors to the department-

Sr. No.	Session	Name of course
1	2012-13	1) Dr. Manikchandani, Scientist, ICAR-CICR, Nagpur. 2) Dr. B. K. Sarangi, Principal scientist, NEERI, Nagpur.
2	2013-14	1) Dr. A. S. Kulkarni Head, Dept. Of Microbiology. Dharampeth science college, Nagpur. 2) Dr. S. N. Malode Head, Dept. of Botany, Institute of Science, Nagpur.
3	2014-15	1) Dr. S. B. Nandeshwar Principal Scientist and Head , Dept. of Biotechnology, ICAR-CICR, Nagpur. 2) Dr. C. A. Lade Head, Dept. Of Microbiology, L.A.D College, Nagpur.
4	2015-16	1) Dr. G. Balasubramani Sr. Scientist, Dept. of Biotechnology ICAR-CICR, Nagpur. 2) Dr. J. Amudha Sr. Scientist, Dept. of Biotechnology Institute of Science, Nagpur.
5	2016-17	1) Dr. S. B. Nandeshwar Principal Scientist and Head ,





		Dept. of Biotechnology, ICAR-CICR, Nagpur. 2) Dr. A. S. Kasbekar Dept. of Microbiology, Sindhu Mahavidyalaya, Nagpur.
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25. Seminars/ Conferences/Workshops organized & the source of funding a)

National: **Nil**

b) International: **Nil**

26. Student profile programme/course wise:

**Session 2012-13 :**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. Part I	140	133	23	108	13.53
B.Sc. Part II	100	85	15	70	31.76
B.Sc. Part III	50	45	7	38	67.39

**Session 2013-14 :**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. Part I	130	117	24	93	19.65
B.Sc. Part II	115	93	16	77	20.43
B.Sc. Part III	70	56	10	46	53.33

**Session 2014-15 :**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. Part I	210	186	37	149	11.82
B.Sc. Part II	97	86	19	67	30.23
B.Sc. Part III	80	71	12	59	43.66

**Session 2015-16 :**

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
B.Sc. Part I	139	130	22	108	16.92
B.Sc. Part II	154	145	31	114	31.72
B.Sc. Part III	60	58	12	46	79.31

**Session 2016-17 :**

Name of the	Applications		Enrolled	
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Course/programme (refer question no. 4)	received	Selected	*M	*F	Pass percentage
B.Sc. Part I	167	160	43	117	Appeared for
B.Sc. Part II	119	113	15	98	Appeared for
B.Sc. Part III	100	94	22	72	Appeared for

\*M = Male \*F = Female

27. Diversity of Students

Sr. No.	Session	% of students from the same state	% of students from other States	% of students from abroad
1	2012-13	UG- 96.99	UG- 3.0	UG - --
		PG- 100	PG - 0	PG- --
2	2013-14	UG- 51.12	UG- 48.87	UG - --
		PG- 33	PG- 66	PG- --
3	2014-15	UG- 21.86	UG- 78.13	UG - --
		PG- 0	PG- 100	PG- --
4	2015-16	UG- 18.84	UG- 81.15	UG - --
		PG- 9.09	PG- 90.90	PG- --
5	2016-17	UG-	UG-	UG -
		PG-	PG-	PG-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defence services, etc.?

Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	10%
PG to M.Phil.	--
PG to Ph.D.	--
Ph.D. to Post-Doctoral	--
<b>Employed</b>	--
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	--

30. Details of Infrastructural facilities

a) Library – **30 to 40 books in dept. library**

b) Internet facilities for Staff & Students – **Computer lab**



- c) Class rooms with ICT facility- **In practical hall**
- d) Laboratories – **Special Plant tissue culture lab with inoculation and incubation separately with general Biotech lab**

31. Number of students receiving financial assistance from college, university, government or other agencies - **Nil**
32. Details on student enrichment programmes (special lectures / workshops /seminar) with external experts

Sr. No.	Session	Name of Guest Lecturers	Topic
1	2012-13	1) Dr. S. B. Nandeshor – 11/10/2012 Head, Dept. of Biotechnology, CICR, Nagpur. 2) Dr. S. A. Kalkar – 11/10/2012 Head, Dept. of Botany, Institute of Science, Nagpur.	Development of Genetically modified crops with special reference to Cotton. Indoor Air quality
2	2013-14	1) Dr. Manikandan, Scientist, ICAR-CICR, Nagpur. 2) Dr. J. Amudha Scientist, ICAR-CICR, Nagpur.	Biofertilizers GM crops
3	2014-15	1) Dr J. Amudha – 09/12/2014 Scientiest, CICR, Nagpur. 2) Dr. N. Dongarwar – 09/12/2014 Asso. Prof., Dept. of Botany, PGTD Campus, Nagpur.	Transgenic crops Green Plantation
4	2015-16	1) Mr. Rajendra Bhangu – 07/10/2015 Retd. Forest Officer, Civil Lines, Nagpur. 2) Dr. B. K. Sarangi – 07/10/2015 Principal scientist, NEERI, Nagpur.	Wild Life Conservation Molecular biology and Genetic Engineering.
5	2016-17	1)Dr.Paul Eliot - 06/02/2017 Director school of life sciences Huddersfield University UK	Future challenges with respect to science

Sr. No.	Session	Workshop	Participants
1	2014-2015	Workshop organized on “Biofertilizer and Biopesticide” for rural development	UG and PG Students from various colleges
2	2015-2016	“Basic techniques of Plant Biotechnology and Phytochemistry” from 2 <sup>nd</sup> to 7 <sup>th</sup> April 2016 in collabration with Central Institute for cotton research.	UG and PG Students and faculties from various colleges
3	2016-2017	“Basics of Bioinformatics, Chemoinformatics and	UG and PG Students



		Biostatistics”	
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33. Teaching methods adopted to improve student learning  
PPT, ICT tools, Viva, Group discussion, Seminar, Class test, Video clips, You tube.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- **Workshop organised on Preparation of Jam Jelly and Pickle**
  - **Practical demonstration on plant biotechnology to the students of Kamla Nehru College of Pharmacy and Jawaharlal college, wadi, Nagpur.**
  - **Awareness of potable water for drinking in the village ‘Mohgaon’.**
35. **SWOC analysis** of the department and Future plans:
- Strength:**
- Large student strength
  - Well qualified and experienced faculty
  - Well equipped and modern laboratories
  - Most of faculty members presented & published paper at several reputed National, International conferences and journals
- Weakness:**
- Lacuna of some hi-tech instruments
  - Instability in strength of faculty members due to non grant dept.
- Opportunity:**
- Extensive use of plant Tissue culture lab
  - Well equipped laboratory.
- Challenges:**
- Research laboratory set up for doctorate programme
  - Lab to land conversion of research product
  - Advanced laboratory with well equipped instruments
  - International Collaborations and student placements
- Future plans –**
- 1) To motivate the students for M.Sc. Biotechnology course
  - 2) Send major and minor research project in collaboration with central/state research institute/ department



**MATHEMATICS**

- Name of the department : **MATHEMATICS.**
- Year of Establishment : **UG: 1989 PG: 2005**
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG (B.Sc.), PG (M.Sc.), Ph.D**
- Names of Interdisciplinary courses and the departments/units involved:

**Certificate course in Mathematical Reasoning.**

**No of Units Involved:02 (Commerce and Arts) 28<sup>th</sup> Jan to 13<sup>th</sup> Feb 2016.**

- Annual/ semester/choice based credit system (programme wise): UG Semester, PG Semester CBCS

Year	UG	PG
2012-13	Annual Pattern	Semester Pattern (CBS)
2013-14	Semester Pattern (CBS)	Semester Pattern (CBS)
2014-15	Semester Pattern (CBS)	Semester Pattern (CBS)
2015-16	Semester Pattern (CBS)	Semester Pattern (CBCS)
2016-17	Semester Pattern (CBS)	Semester Pattern (CBCS)

- Participation of the department in the courses offered by other departments:  
**B.Tech. (Cosmetic Technology) 2014-15, 2015-16**
- Courses in collaboration with other universities, industries, foreign institutions, etc.:  
**NIL**
- Details of courses/programmes discontinued (if any) with reasons: **NIL**
- Number of teaching posts

	<b>Sanctioned</b>	<b>Filled</b>
Professors	NIL	NIL
Associate Professors	NIL	NIL
Asst. Professors	<b>01+03</b>	<b>01+03</b>

- Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.M.V.Borkar	Ph.D	Assistant Professor	General Relativity	18	NIL
Ms. Rupali Wanjari	M.Sc., Ph.D.	Ad-hoc Lecturer	General Relativity	06	NIL
Mrs. Manisha.S. Nagpure	M.Sc.	Ad-hoc Lecturer	Fluid Dynamics	01	NIL
Mr. Ajay Soni	M.Sc.	Ad-hoc Lecturer	Topology	Nil	NIL

11. List of senior visiting faculty: nil

12. Percentage of lectures delivered and practical classes handled (programme wise)

By temporary faculty:

Program/course	Percentage of lectures delivered	Percentage of practical classes handled
B. Sc.	30 %	NA
M.Sc.	80 %	NA

13. Student -Teacher Ratio (programme wise)

Year	B.Sc.	M.Sc.
2012-13	267:2(133:1)	31:3
2013-14	280:2(140:1)	37:2
2014-15	339:2(169:1)	32:3
2015-16	344:2(172:1)	34:3
2016-17	372:2(186:1)	42:3

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:NA

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Year	PG	Ph.D.
2016-17	02	02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total grants received:Nil



18. Research Centre /facility recognized by the University: **Recognized by RTMNU Nagpur.**

19. Publications:

\* a) Publication per faculty ( Conference Proceedings)

Name of the Faculty	Session	No. of Publications
Dr.M.V.Borkar	2012-13	Nil
	2013-14	Nil
	2014-15	Nil
	2015-16	03
Dr. Rupali Wanjari	2013-14	01

\* Number of papers published in peer reviewed journals (national /international) by faculty and students

Name of the Faculty	Session	National Journals	International Journals
Dr.M.V. Borkar	2012-13	Nil	Nil
	2013-14	Nil	Nil
	2014-15	Nil	Nil
	2015-16	Nil	03
Dr. Rupali Wanjari	2014-15	Nil	02

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....**Nil**

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme:

Session	UG/PG	Dept. Programme
2015-16	B.Sc. 2 <sup>nd</sup> yr	Seminars
	M.Sc. 2 <sup>nd</sup> yr	Projects
2016-17	B.Sc. 2 <sup>nd</sup> yr	Seminars
	M.Sc. 1 <sup>st</sup> yr	Seminars

b) Percentage of students placed for projects in organizations outside the



institution i.e.in Research laboratories/Industry/ other agencies. Nil

23. Awards / Recognitions received by faculty and students

Session	Activity	Name of the students	Remarks (Ist, IInd, IIIrd, Consolation)
2012-13	Scoring 89% in B.Sc.I,summer-2013 exam	Ms. Neha Patel	Highest Percentage
	NET and JRF qualified	Mr.Ashish A.Shastrkar	
2014-15	Intercollegiate seminar	Ms. Mansi Parab	Third Prize
	II National Debate Competition	Ms.Mansi Parab	1 <sup>st</sup> Best Team
	Nagpur Divisional Yogasana Championship	Ku. Purva Mire	1 <sup>st</sup> prize
	Poster and Paper Contest competition	Ms. Tejal Yende	Participated
		Ms. Apurva Dhage	Participated
	Debate competition at G.S. connext	Ms. Mansi Parab	3 <sup>rd</sup> prize
Debate competition at Tirpude Socialwork	Ms. Mansi Parab	2 <sup>nd</sup> prize	
2015-16	NET qualified	Mr. Rohit Patne	66 rank
	Shri. Soumendra Mohan Roy Prize by RTMNU	Ms. Sapna Akre	Highest Marks in Mathematics
	Mathematics Quiz at PGTD RTMNU	Taranpreet Kaur	Consolation

24. List of eminent academicians and scientists/visitors to the department.

Session	Name of Guest
2012-13	Dr .K.C. Deshmukh
	Dr. Ravi Saraykar
	Dr. Pradeep Siddheshwar
	Dr. Abhijit Lahiri
	Dr. Kishor Adhav
2015-16	Dr. P. G. Khot
	Dr. M. S. Borkar

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National b) International. Nil.

26. Student profile programme/course wise:

Session	Name of the Course/programme (refer question no. 5)	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	B.Sc.1 <sup>st</sup> Yr	124	124	23	101	41.93%





2013-14	B.Sc. 2 <sup>nd</sup> yr	70	70	19	51	41.42%
	B.Sc. 3 <sup>rd</sup> yr	50	50	13	37	62%
	M.Sc. 1 <sup>st</sup> yr	14	14	1	13	14%
	M.Sc. 2 <sup>nd</sup> yr	10	10	1	9	20%
	B.Sc. I Sem	120	120	29	91	37.5%
	B.Sc. II Sem	115	115	25	90	28.69%
	B.Sc. 2 <sup>nd</sup> yr	100	100	15	85	52%
2014-15	B.Sc. 3 <sup>rd</sup> yr	53	53	15	38	45%
	M.Sc. I Sem	19	19	4	15	5%
	M.Sc. II Sem	18	18	4	14	5%
	M.Sc. 2 <sup>nd</sup> yr	15	15	2	13	13.33%
	B.Sc. I Sem	150	150	62	88	16%
	B.Sc. II Sem	143	143	59	84	19%
	B.Sc. III Sem	101	101	24	77	34.65%
2015-16	B.Sc. IV Sem	99	99	23	76	30.30%
	B.Sc. 3 <sup>rd</sup> yr	88	88	13	75	57%
	M.Sc. I Sem	22	22	5	17	9.09%
	M.Sc. II Sem	21	21	5	16	9%
	M.Sc. IIISem	9	9	1	8	22%
	M.Sc. IV Sem	07	07	1	6	10%
	B.Sc. I Sem	144	144	48	96	22%
2015-16	B.Sc. II Sem	144	144	48	96	19%
	B.Sc. III Sem	127	127	42	85	22.8%
	B.Sc. IV Sem	127	127	42	85	29.13%
	B.Sc. V Sem	73	73	15	58	41%
	B.Sc. VI Sem	73	73	15	58	47%
	M.Sc. I Sem	20	20	4	16	10%
	M.Sc. II Sem	20	20	4	16	0%
	M.Sc. III Sem	9	9	1	8	10%
	M.Sc. IV Sem	7	7	1	7	14%

\*M = Male \*F = Female

27. Diversity of Students

Session	Name of the Course	% of students from the	% of students from	% of students from
2012-13	B.Sc	100%	0%	0%
	M.Sc	100%	0%	0%
2013-14	B.Sc	100%	0%	0%
	M.Sc	86%	14%	0%
2014-15	B.Sc	98.66%	1.33%	0%
	M.Sc	100%	0%	0%
2015-16	B.Sc	94.45%	5.55%	0%
	M.Sc	100%	0%	0%



28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Session	NET	SET	GATE	MPSC
2012-13	01	-	-	-
2015-16	01	-	-	-

SESSION	ACHEIVE MENT	NAME OF THE STUDENT	REMAR KS
2012-13	CSIR- NET	Mr. Ashish Shatrakar	NET
2015-16	CSIR- NET	Mr. Rohit Patne	66 <sup>th</sup> rank

29. Student progression

Student progression	Against % enrolled			
	2013-14	2014-15	2015-16	2016-17
UG to PG	49:3	Nil	88:3	73:3
PG to M.Phil.	NA	NA	NA	NA
PG to Ph.D.	NA	NA	NA	NA
Ph.D. to Post-Doctoral	NA	NA	NA	NA
<b>Employed</b> • Campus selection • Other than campus recruitment				
Entrepreneurship/Self-employment				

30. Details of Infrastructural facilities a) Library: **Near about 1739 no's of books 697 titles in various specializations of mathematics.**
- b) Internet facilities for Staff & Students .**Yes**
- c) Class rooms with ICT facility. **Yes**
- d) Laboratories.**NA**
31. Number of students receiving financial assistance from college, university, government or other agencies. **Nil**
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts:

Session	Name of Guest
2012-13	Dr .K.C. Deshmukh
	Dr. Ravi Saraykar
	Dr. Pradeep Siddheshwar



	Dr. Abhijit Lahiri
	Dr. Kishor Adhav
2015-16	Dr. P. G. Khot
	Dr. M. S. Borkar

33. Teaching methods adopted to improve student learning. In addition to the traditional method of teaching use of ICT like Smart board is incorporated. Power point Presentation, Practical method by giving demonstration, Seminars, Quiz, assignments etc. **Yes**
34. Participation in Institutional Social Responsibility (ISR) and Extension activities. **Nil**
35. SWOC analysis of the department and Future plans

#### **Strength of the department**

1. Experienced teaching staff.
2. Class room seminar, regular unit test and terminal examination.
3. Post graduate course.
4. Interdisciplinary academic activities (science study circle).
5. Extra classes as and when required.
6. Department is recognized research center (approved by RTMNU, Nagpur).

#### **Weakness of the Department**

1. Even though the number of Staff members is large but the teacher student ratio is not good.

#### **Challenges before the Department**

1. Involving maximum number of students in higher education such as Ph.D

#### **Future Plans**

1. To subscribe research journals in departmental and make them available for students.
2. To increase extracurricular activities of the students.



## Botany

1. Name of the department - **Botany**
2. Year of Establishment – **UG – 2003, PG - 2004**
3. Names of Programmes / Courses offered (UG, PG): **B.Sc. M.Sc.**
4. Names of Interdisciplinary courses and the departments/units involved – **Nil**
5. Annual/ semester/choice based credit system (programme wise)

Session	UG			PG	
	B.Sc I	B.Sc II	B.Sc III	M.Sc I	M.Sc II
2016 - 17	Semester	Semester	Semester	Sem (CBCS)	Sem (CBCS)
2015 - 16	Semester	Semester	Semester	Sem (CBCS)	Sem (CBS)
2014 - 15	Semester	Semester	Annual	Sem (CBS)	Sem (CBS)
2013 - 14	Semester	Annual	Annual	Sem (CBS)	Sem (CBS)
2012 - 13	Annual	Annual	Annual	Sem (CBS)	Annual (CBS)

6. Participation of the department in the courses offered by other departments - **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. - **Nil**
8. Details of courses/programmes discontinued (if any) with reasons - **Nil**
9. Number of Teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	UG – 5 PG – 4	05 04

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. V. Y. Charjan	M.Sc, Ph.D	Asst. Prof & Head	Phycology	12 Yrs	-
Dr. S. R. Moghe	M.Sc, Ph.D	Asst. Prof.	Plant	12 Yrs	-
Ms. R.R Vyas	M.Sc. B.Ed	Add-hoc lecturer	Mol. Bio & Plt.	04	-



Ms. S. S. Maske	M.Sc. NET., Ph.D	Assist. Prof.	Cytogenetics	02 Yrs	-
Ms. S.V. Thakare	M.Sc. B.Ed	Add-hoc lecturer	Palynology	02 Yrs	-
Ms. S.P. Pawar	M.Sc. B.Ed	Add-hoc lecturer	Plant	01 Yrs	-
Mrs. N.S. Bhardwaj	M.Sc.	Add-hoc lecturer	Mol. Bio & Plt.	01 Yrs	-
Ms. S.R. Lad	M.Sc. B.Ed	Add-hoc lecturer	Mol. Bio & Plt.	01 Yrs	-
Ms. P.V. Helwatkar	M.Sc. B.Ed	Add-hoc lecturer	Palynology	02Yrs	-

11. List of senior visiting faculty – 1. Dr. J. L. Tarar

2. Dr. S. D. Narkhede

3. Dr. M. T. Sheikh

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty –

Session	Theory %		Practical %	
	UG	PG	UG	PG
16-17	62%	87.5%	66.67%	80%
15-16	75%	87.5%	66.67%	83.33%
14-15	50%	75%	66.67%	66.66%
13-14	50%	75%	70%	50%

13. Student -Teacher Ratio (programme wise) –

Session	2016 - 17	2015 - 16	2014 - 15	2013 - 14
Student -Teacher Ratio	40:1	33:1	30:1	19:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled – **02**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
02	--	01	07

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received - **Nil**

18. Research Centre /facility recognized by the University - **Nil**

19. Publications:

a) Publication per faculty

\* Number of papers published in peer reviewed journals (national /international) by faculty and students

\* Number of publications listed in International Database (For Eg: Web of



Science, Scopus, Humanities International Complete, Dare Database  
- International Social Sciences Directory, EBSCO host, etc.) - NA

- \* Monographs - NA
- \* Chapter in Books - NA
- \* Books Edited - NA
- \* Books with ISBN/ISSN numbers with details of publishers – YES
- **04 Books** by Dr. V. Y. Charjan
- \* Citation Index - YES
- \* SNIP - NA
- \* SJR - NA
- \* Impact factor - NA
- \* h-index - NA

20. Areas of consultancy and income generated –  
Dr.V.Y.Charjan and Ms Roshni Vyas provides free of cost consultancy to **Ayurvan Nursery** regarding
- 1 How to maintain different plants of nursery.
  - 2 Information about seasonal plants.
  - 3 Water requirement of different plants.
  - 4 Information about plants required for avenue plantations.
  - 5 Suggestion for scientific identification of local names.
  - 6 Suggestion according to the specific needs of plants.
21. Faculty as members in - **Nil**
- a) National committees    b) International Committees    c) Editorial Boards....
22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/programme - **50%**.

**Project List –  
2016-17**

Sr.no	Name Of Student	Name Of Supervisor	Name Of topics
1	Ku. Aarti G. Bhajankar	Dr. S.R. Moghe	Regeneration and phytochemical analysis of <i>Tinospora cordifolia</i>
2	Mr. Bhagwat M. Hundri	Dr. V. Y. Charjan	Exploration of traditional and cultural use of Medicinal plant by Kavar Tribe of Ilada village at Gondia District, Maharashtra state.
3	Mr. Fameshwar R. Kapgate	Dr. V. Y. Charjan	Fresh water algae from Sakkardhara lake, Nagpur, (Maharashtra)
4	Ku. Karishma P. Dhurve	Dr. V. Y. Charjan	Incorporation of <i>Aloevera</i> extract in the preparation of bodywash shampoo (Cosmetic)



5	Ku. Mrunali P. Buddhe	Dr. V. Y. Charjan	Common fungi found on fruit & vegetables in Sakkardhara Market, Nagpur (Maharashtra).
6	Mr. Sonal P. Karambhe	Dr. V. Y. Charjan	Ethno-Medico-Botany of some sacred plants of Nagpur city of Maharashtra.
7	Ku. Sonu S. Rathod	Dr. V. Y. Charjan	Survey on solid waste management of Sakkardhara Area Nagpur (Maharashtra)

**2015-16**

Sr.no	Name Of Student	Name Of guide	Name Of topics
1	Ku. Asmita D. Ujjainkar	Dr. V. Y. Charjan	Incorporation of <i>Aloe-vera</i> extract in the preparation of face wash and face cream
2	Miss. Harsha A. Wasamwar	Dr. S.R. Moghe	In vitro regeneration of <i>Vitex negundo</i> plant
3	Miss. Nutan A. Gondane	Dr. V. Y. Charjan	Medicinal plant use by tribal people (Gond) Wadchinholi village in Pandhurna Tahsil from Chindawara
4	Miss. Shubhangi R. Nimje	Dr. V. Y. Charjan	Preparation of Biofertilizer from Floral Waste
5	Miss. Swati H. Pilare	Mrs. S. R. Moghe	In-vitro Studies in <i>Piper betel</i> leaf
6	Miss. Yogyashri H. Padole	Mrs. S. R. Moghe	In-vitro Studies in <i>Rouwolfia tetraphylla</i>
7	Miss. Trupti Gajanan Deollikar	Dr. V. Y. Charjan	Exploration and Documentation of Traditional and cultural use of Medicinal plant by Madia tribe of Mohrli at Gadchiroli District, Maharashtra State.

**SESSION- 2014-15**

Sr.No	Name Of Student	Name Of guide	Name Of topics
1	Ku. Jayashree Wankhede	Dr. V. Y. Charjan	Ecological Survey of Avenue plantation on two different roads of nagpur
2	Ku. Megha Diwate	Dr. S.R. Moghe	In vitro studies in <i>Sesamum indicum nigrum</i>
3	Ku. Neha Atewar	Dr. S.R. Moghe	In-vitro Regeneration in fibre crop grown in Maharashtra region



4	Ku. Swati Buddhe	Dr. V. Y. Charjan	Qualitative Parametres of Ambazari Area in Distribution of plant species, Frequency, density, basal cover & IVI By Qudrat method
5	Ku. Trupti Deolikar	Not Appeared	-
6	Ku. Vrushali Waghe	Dr. S. P. Dakhore	Qualitative Analysis of Nag River- A step towards clean City

## SESSION- 2013-14

Sr no.	Name Of Student	Name Of Guide	Name Of Topics
1	Ku. Pragati Ramteke	Dr. V. Y. Charjan	Water Analysis of Few Water bodies flowing nearby paper industry
2	Ku Swati Karkade	Dr. V. Y. Charjan	Palynological Investigation of Some families

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies - **Nil**

23. Awards / Recognitions received by faculty and students

Session	Activity	Name of the Students	Remarks (I,II,III Prize & Consolation)
2016-17	P.Pt. competition.	Uttkarsh Gaikawad	I Prize
2014-15	Seminar competition.	Priya Meshram	II Prize

24. List of eminent academicians and scientists / visitors to the department

Year	Name of Visitor & academicians
2016-2017	1) <b>Dr. Prabodh Halde</b> , Manager, Marico Mumbai 2) <b>Mr. Vivek Ranade</b> , Organic farming consultant 3) <b>Mukund Sherekar</b> , Naturopath 4) <b>Dr. Paul Eliot</b> , International Director, Huddersfield Univ, UK
2015-2016	1) <b>Mr. Bhangu</b> , Retired forest officer civil lines Nagpur 2) <b>Dr. B. K. Sarangi</b> , Principal Scientist Neeri.
2014-2015	1) <b>Dr. Nitin Dongarwar</b> Asst. Professor PGTD of Botany RTMNU 2) <b>Dr. Amudha</b> Senior Scientist CICR Nagpur.

25. Seminars/ Conferences/Workshops organized & the source of funding





a) National - Nil

b) International - Nil

26. Student profile programme/course wise:

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	B.Sc Ist year	77	77	16	61	12.99 %
	B.Sc IInd Year	27	27	7	20	33.00 %
	B.Sc Final year	17	17	7	10	88.00%
2013-14	B.Sc Ist Sem	132	132	39	93	16.01%
	B,Sc IInd sem	116	116	29	87	18.10%
	B.Sc- IInd year	37	37	09	28	27.20%
	B.Sc Final year	14	14	0	14	71.42%
2014-15	B.Sc Ist Sem	147	147	35	112	10.13%
	B.Sc IInd sem	138	138	32	106	13.04 %
	B.Sc IIIrd Sem	94	94	24	70	18.08%
	B.Sc IV Sem	92	92	25	67	17.39%
	B.Sc Final year	24	24	03	21	46.00%
2015-16	B.Sc Ist Sem	138	138	26	112	5.70%
	B.Sc IInd sem	138	138	26	112	6.60%
	B.Sc IIIrd Sem	105	105	18	83	28.57%
	B.Sc IV Sem	105	105	18	83	50.00%
	B.Sc Vth sem	34	34	07	27	70.58%
	B.Sc VI sem	34	34	07	27	64.70%
2016-2017	B.Sc Ist Sem	147	147	36	111	18%
	B.Sc IInd sem	147	147	36	111	--
	B.Sc IIIrd Sem	127	127	18	109	08%
	B.Sc IV Sem	127	127	18	109	--
	B.Sc Vth sem	56	56	06	50	53.57%
	B.Sc VI sem	56	56	06	50	--

\*M = Male \*F = Female

Academic Year	Name of the Course/progr	Applications	Selected	Enrolled		Pas
				*M	*F	
2012-13	M.Sc I sem	13	13	00	13	0%
	M.Sc II sem	08	08	00	08	0%
	M.Sc II year	03	03	00	03	33.33
2013-14	M.Sc I sem	04	04	00	04	0%
	M.Sc II sem	04	04	00	04	75%
	M.Sc III sem	03	03	00	03	33.33%
	M.Sc IV sem	02	02	00	02	0%
2014-15	M.Sc I sem	10	10	02	08	0%
	M.Sc II sem	10	10	02	08	20%
	M.Sc IIIsem	06	06	00	06	83.33%



2015-16	M.Sc IV sem	06	06	00	06	0%
	M.Sc I sem	14	14	03	11	0%
	M.Sc II sem	07	07	03	04	50%
	M.Sc III sem	07	07	00	07	0%
2016-17	M.Sc IV sem	06	06	00	06	0%
	M.Sc I sem	22	22	02	20	9.09%
	M.Sc II sem	20	20	02	20	--
	M.Sc III sem	07	07	03	04	85.71%
	M.Sc IV sem	07	07	03	04	--

27. Diversity of Students: Nil

Session	Name of the Course	% of students from the same state (M)	% of students from other States	% of students from abroad	Total Students
16 - 17	UG				
	PG	57.13%	42.87%	-	28
15 - 16	UG	23%	16%	-	442
	PG	47%	95%	-	21
14 - 15	UG	18.9%	81%	-	359
	PG	28%	87.5%	-	16
13 - 14	UG	39%	60%	-	295
	PG	28%	71%	-	7
12 - 13	UG	96.7%	3.39%	-	206
	PG	87%	12.5%	-	16

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc. - **02 Students**

1. **Mr. Shrikant Borkar – NET/SET/GATE**

2. **Mr. Jayendra Nakade - NET**

29. Student progression

Student progression	Against % enrolled
UG to PG	11%
PG to M.Phil.	---
PG to Ph.D.	2%
Ph.D. to Post-Doctoral	--
<b>Employed</b> • Campus selection • Other than campus recruitment	--



Entrepreneurship/Self-employment	--
----------------------------------	----

30. Details of Infrastructural facilities
- Library – 105 Books
  - Internet facilities for Staff & Students - Nil
  - Class rooms with ICT facility - YES
  - Laboratories - YES
31. Number of students receiving financial assistance from college, university, government or other agencies - NA
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

#### Details of Workshop

Sr. No.	Session	Topic	Technical person
1	2015-2016	<ul style="list-style-type: none"> <li>➤ Preparation of Herbal product by plants</li> <li>➤ Certificate course on Methods and techniques for material preservation and slide preparation</li> </ul>	Mukund sherekar
2	2014-2015	<ul style="list-style-type: none"> <li>➤ Biofertilizers and Biopesticides for Rural development</li> </ul>	Dr. Soham Pandya

#### Details of Guest Lecture:-

Year	Topic	Name of Guest Lecturer
2016-2017	1) Use of plant in preparation of cosmetic products. 2) Organic farming  3) Carrier guidance in botanical field. 4) Emerging areas of research in the field of science in the global scenario.	<b>1) Dr. Prabodh Halde</b> Manager, Marico Mumbai <b>2) Mr. Vivek Ranade</b> Organic farming consultant <b>3) Mukund Sherekar</b> Naturopath <b>4) Dr. Paul Eliot</b> International Director, Huddersfield Univ, UK
2015-2016	1) Wildlife conservation.  2) Molecular biology and genetic engineering.	<b>1) Mr. Bhangu</b> Retired forest officer civil lines Nagpur <b>2) Dr. B. K. Sarangi</b> Principal Scientist Neeri.
2014-2015	1) Insitu conservation of Orchids of Maharashtra.  2) Transgenic plants.	<b>1) Dr. Nitin Dongarwar</b> Asst. Professor PGTD of Botany RTMNU <b>2) Dr. Amudha</b> Senior Scientist CICR Nagpur.



2012-2013	1) Indoor air quality  2) Development of genetically modified crops with special reference to cotton.	<b>1) Dr. S. A. Kalkar</b> Head, Dept. of Botany, Institute of Science, Nagpur. <b>2) Dr. S. B. Nandeshwar</b> Senior Scientist, CICR Nagpur.
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33. Teaching methods adopted to improve student learning – ICT, Seminar, Group Discussion, Lectures, Viva etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities  
**Social activity**

Year : 2016-2017	<b>1 July 2016</b> - On occasion of krishiday plantation of 10 medicinal plant in college garden  <b>13 September 2016</b> - Awareness regarding plantation and mosquito repellent plant at Katla bodi village by street act.
Year : 2015-2016	<b>23 Jan 2016</b> - Donation of medicinal plant to Kapeswar village peapl  <b>1 Aug 2015</b> - Awareness regarding plantation and mosquito repellent plant in nearby areas  <b>26 Jan 2016</b> - Awareness regarding plantation and deforestation

35. SWOC analysis of the department and Future plans

**Strength –**

- Punctuality, Hard work.
- Well-equipped lab for PG students.
- Faculty with different specializations.

**Weaknesses –**

- High dropout rate
- Lack of motivation due to low socio economic background.
- Most of the students admitted have less percentage of marks and are poor in English.

**Opportunity –**

- Students can be absorbed in research centers like NEERI, CITRUS Centre and CICR, Nagpur and private agro research centers.

**Challenges –**

- Reduction in dropout rate, Counseling
- To encourage students with good caliber towards science stream and particularly for Botany.



- Developing tieups of our laboratory with reputed research centers and industries

**Future plans –:**

- 1 To establish e-learning classroom attached to laboratory.
  - 2 Further development of Botanical garden
  - 3 Organization of more workshops & Certificate courses
  - 4 All faculty members will be appearing for NET/SET/Ph.D Entrance Test (PET)
  - 5 Proposals for minor projects
  - 6 To start the new specialization in Advanced Phycology and Hydrobiology.
- 



**ENVIRONMENTAL SCIENCE**

1. Name of the department : ENVIRONMENTAL SCIENCE

2. Year of Establishment : 2005

3. Name of courses offered : B.Sc. , M.Sc.

4. Names of Interdisciplinary courses and the departments/units involved - Nil

5. Annual/ semester/choice based credit system (programme wise):

Sr. No.	session	B.Sc.	M.Sc
1	2013-14	Semester	Semester
2	2014-15	Semester	Semester
3	2015-16	Semester	Semester
4	2016-17	Semester	CBCS

6. Participation of the department in the courses offered by other departments:

Our students have participated in different certificate course organized by other department. The details are as follows:

Sr. No.	Name Of Course	Department	Session	Class	No. of Students	Duration
1	Human rights	Cosmetic Technology	2014-15	M.Sc. I	07	1 Month
2	Bioinformatics	Biotechnology	2015-16	M.Sc. I	10	10 Days

7. Courses in collaboration with other universities, industries, foreign institutions, etc. - Nil

8. Details of courses/programmes discontinued (if any) with reasons - Nil

9. Number of teaching posts

	Sanctioned	Filled
Professors	-	-
Associate Professors	-	-
Asst. Professors	06	03

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Session: 2016-17

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. St



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. St
Miss. Neha K.Thakur	M.Sc., SET	H.O.D ,Asst. proffessor	Environmental Science	08 Years	-
Miss. Sukeshini M.Meshram	M.Sc., NET	Lecturer	Environmental Science	03 Years	-
Miss. Namita R.Mane	M.Sc.	Lecturer	Environmental Science	02 Years	-
Mrs. Padmaja A.Shahakar	M.Sc., B. Ed	Lecturer	Environmental Science	02 Years	-
Miss. Sameena N. Khan	M.Sc.	Lecturer	Environmental Science	06 Months	-
Miss. Chandani P.Kachave	M.Sc.	Lecturer	Environmental Science	06 Months	-
Miss. Swapna Khokle	M.Sc., B. Ed	Lecturer	Environmental Science	03 Years	
Miss. Pragati Halmare	M.Sc., B.Ed	Lecturer	Environmental Science	01 Years	
Miss. Sneha L. Ramtekar	M.Sc.	Lecturer	Environmental Science	01 Years	
Miss. Vibha Charpe	M.Sc., B.Ed	Lecturer	Environmental Science	01 Years	

11. List of senior visiting faculty

1. Dr. Kaustav Chatterjee (Head person at Reva Enviro, Nagpur)
2. Dr. N.S. Raman (Deputy Director in Environmental Audit Cell, NEERI Nagpur)

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Sr. No.	Session	Percentage
1	2013-14	70%
2	2014-15	72%
3	2015-16	80%
4	2016-17	80%

13. Student -Teacher Ratio – 23:1

Year	Student -Teacher Ratio
2013-14	18:1
2014-15	23:1
2015-16	23:1
2016-17	23:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled - academic support staff (technical) – 1

administrative staff - Nil

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. -



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided
Miss. Neha K.Thakur	M.Sc., SET	H.O.D ,Asst. professor	Environmental Science	08 Years	-
Miss. Sukeshini M.Meshram	M.Sc., NET	Lecturer	Environmental Science	03 Years	-
Miss. Namita R.Mane	M.Sc.	Lecturer	Environmental Science	02 Years	-
Mrs. Padmaja A.Shahakar	M.Sc., B. Ed	Lecturer	Environmental Science	02 Years	-
Miss. Sameena N. Khan	M.Sc.	Lecturer	Environmental Science	06 Months	-
Miss. Chandani P.Kachave	M.Sc.	Lecturer	Environmental Science	06 Months	-
Miss. Swapna Khokle	M.Sc., B. Ed	Lecturer	Environmental Science	03 Years	-
Miss. Pragati Halmare	M.Sc., B.Ed	Lecturer	Environmental Science	01 Years	-
Miss. Sneha L. Ramtekar	M.Sc.	Lecturer	Environmental Science	01 Years	-
MR. Praksh B. Wankhede	M.Sc. SET	Lecturer	Environmental Science	01 Years	-

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received - **Nil**
18. Research Centre /facility recognized by the University - **Nil**
19. Publications:
- ❖ a) Publication per faculty
  - ❖ Number of papers published in peer reviewed journals (national / International) by faculty and students – 02
  - ❖ Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - No
  - ❖ Monographs - No
  - ❖ Chapter in Books- No





- ❖ Books Edited- No
- ❖ Books with ISBN/ISSN numbers with details of publishers- No
- ❖ Citation Index- No
- ❖ SNIP- No
- ❖ SJR- No
- ❖ Impact factor- No
- ❖ h-index- No

20. Areas of consultancy and income generated- **Nil**

21. Faculty as members in

- a) National committees - **Nil**
- b) International Committees - **Nil**
- c) Editorial Boards- **Nil**

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme

Sr. No.	Session	Total No. of Students	In-house Projects	Percentage
1	2012-13	04	04	100%
2	2013-14	02	02	100%
3	2014-15	Nil	Nil	Nil
4	2015-16	15	11	73%

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Sr. No.	Session	Total No. of Students	Out-house Projects	Percentage
1	2012-13	04	Nil	Nil
2	2013-14	02	Nil	Nil
3	2014-15	Nil	Nil	Nil
4	2015-16	15	04	26%

23. Awards / Recognitions received by faculty and students

24. List of eminent academicians and scientists / visitors to the department

1. Dr. Kaustav Chatterjee (Head person at Reva Enviro, Nagpur)
2. Dr. N.S. Raman (Deputy Director in Environmental Audit Cell, NEERI Nagpur)
3. Dr. S. Kalkar



4. Dr. S.B. Nandeshwar
5. Dr. Nitin Dongarwar
6. Dr. J. Ambudha
7. Mr. Rajendra Bhangu (Retired Forest Officer)
8. Dr. B.K. Sarangi (NEERI Nagpur)
9. Dr. C.A. Moghe (NEERI Nagpur)

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National - Nil

b) International- Nil

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Session	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
B.Sc I	2013-14	43	43	13	30	73
B.Sc II	2013-14	21	21	7	14	90%
B.Sc III	2013-14	07	07	03	04	100%
M.Sc II	2013-14	02	02	0	02	100%
B.Sc I	2014-15	46	46	14	32	56.52%
B.Sc II	2014-15	26	26	06	20	76.92%
B.Sc III	2014-15	08	08	03	05	100%
M.Sc I	2014-15	16	16	00	16	78%
M.Sc II	2014-15	-	-	-	-	-
B.Sc I	2015-16	45	45	14	31	43.90%
B.Sc II	2015-16	35	35	10	25	78.79%
B.Sc III	2015-16	17	17	04	13	100%
M.Sc I	2015-16	17	17	04	13	70.56%
M.Sc II	2015-16	15	15	00	15	66.62%
B.Sc I	2016-17	65	65	16	49	---
B.Sc II	2016-17	29	29	08	21	----
B.Sc III	2016-17	15	15	04	11	----
M.Sc I	2016-17	22	22	10	12	----
M.Sc II	2016-17	12	12	02	10	----

\*M = Male \*F = Female

27. Diversity of Students



Sr. No	Session	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
1	2013-14	B.Sc.	100%	-	-
		M.Sc.			
2	2014-15	B.Sc.	100%	-	-
		M.Sc.			
3	2015-16	B.Sc.	100%	-	-
		M.Sc.			
4	2016-17	B.Sc.	100%	-	-
		M.Sc.			

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

- Nil

29. Student progression

Student progression	Against % enrolled
UG to PG	50 %
PG to M. Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	Nil
<b>Employed</b>	
• Campus selection	
• Other than campus recruitment	02
Entrepreneurship/Self-employment	01

30. Details of Infrastructural facilities

- a) Library – **85 books**
- b) Internet facilities for Staff & Students - **Yes**
- c) Class rooms with ICT facility - **Yes**
- d) Laboratories - **Yes**

31. Number of students receiving financial assistance from college, university, Government or other agencies - **Nil**



32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts – **Yes**

-We are arranging the special lectures by expert guest persons to enrichment of all students.

Details as follows-

Sr. No.	Session	Speakers	Topic (Guest Lecture)	Workshop on
1	2012-13	Dr. S.Kalkar (HOD of Botany Dept. Institute of Science college,nagpur)	Indoor Air Quality	-
2	2013-14	Dr. Kaustav Chatterjee (Head person at Reva Enviro,nagpur)	Advanced Water and Waste Water Treatment	-
3	2014-15	Dr. Kaustav Chatterjee (Head person at Reva Enviro,nagpur)	Current Environmental Issues in Nagpur City	Biofertilizer and Biopesticides (Inter-colligate)
4	2015-16	Mr. Rajendra Bhangu (Retired forest officer,nagpur)	Wild Life Conservation	-
5	2016-17	Dr.C.A.Moghe	Ozone Depletion	

33. Teaching methods adopted to improve student learning-

1. Seminar
2. Power point presentation
3. Internet searching

34. Participation in Institutional Social Responsibility (ISR) and Extension activities- Environmental Awareness in different institutions, school and colleges.

35. SWOC analysis of the department and Future plans

**Strength –**

- we are able to prepare well trained and qualified environment professionals
- Our subject itself is need of the day as the global problems (climate change, pollution, global warming) rising .
- We are able to do the baseline EIA study.
- We are able to conduct the Green Audit, Energy Audit, Safety Audit

**Weaknesses-**

- Students found not so much aware regarding importance and
- scope of this subject.

**Opportunities-**



- We can reduced the pollution.
- We are able to aware people regarding sustainable development.

**Challenges-**

- To avail students with good placement.
- To make our environment healthy.

**Future plans-**

- Upgradation of qualification of staff members.
  - Research on various topics .
- 



## MICROBIOLOGY

1. Name of the department:- **MICROBIOLOGY**
2. Year of Establishment :- **UG—2003,PG--2004**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.):- **UG nd PG (B.Sc. and M.Sc.)**
4. Names of Interdisciplinary courses and the departments/units involved:-**Nil**
5. Annual/ semester/choice based credit system (programme wise):-

SR.NO.	SESSION	UG	PG
1.	2012-13	Annual	Annual
2.	2013-14	Annual	Semester
3.	2013-14	Semester	Semester
4.	2014-15	Semester	Semester
5.	2015-16	Semester	Choice Based Credit System
6.	2016-17	Semester	Choice Based Credit System

6. Participation of the department in the courses offered by other departments:-

### Session 2015-16

#### **WORKSHOP ON BIOINFORMATICS CONDUCTED BY THE DEPARTMENT OF BIOTECHNOLOGY.**

Participation : M.Sc SEM II

SR.NO.	STUDENT NAME
1.	1.Priyanka Utane
2.	2.Bhagyashree Poddar
3.	3. Ruchika Sathwane

### Session 2014-15

#### **WORKSHOP ON BIOFERTILIZER ORGANISED BY DEPARTMENT OF BOTONY**

Participation: M.Sc SEM IV and BSc.final year

SR.NO.	STUDENT NAME
1.	Ku.Narmada Parate
2.	Bhagyashree Omprakash Dekate
3.	Deepika Pradip Puradbhat
4.	Dipali Dhaniramji Mahulkar
5.	Dipika Shankarrao Narnaware
6.	Kalyani Sanjay Thamke
7.	Pallavi Naresh Kapgate
8.	Pooja Suresh Somkuwar
9.	Puja Rajendra Gotmare
10.	Ragini Giridhar Kamble
11.	Rutuja Sureshrao Manthanwar
12.	Sabiya Naz Sk Sarphuddin Sheikh

7. Courses in collaboration with other universities, industries, foreign institutions, etc.:**-Nil**
8. Details of courses/programmes discontinued (if any) with reasons:-**Nil**
9. Number of Teaching posts



	Sanctioned	Filled
Professors	-----	-----
Associate Professors	-----	-----
Asst. Professors	12	<b>02</b>

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

**SESSION (2012-13 Onwards )**

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.Mrs.A.M.Chandak	M.Sc, Ph.D	Assistant Professor	-----	20	-----
Mrs.Aarti Dhabekar	M.Sc.M.Phil	Lecturer	-----	11	-----
Mrs.Sonali Kumarwar	M.Sc	Lecturer	-----	12	-----
Ms.Rohini Patle	M.Sc.NET	Lecturer	-----	4	-----
Ms.Poonam Kurve	M.Sc	Lecturer	-----	2	-----
Ms.Ashwini Panchabudhe	M.Sc	Lecturer	-----	1	-----
Ms. Sharmily Sangewar	M.Sc	Lecturer	-----	2	-----
Ms. Shital Rajuria	M.Sc	Lecturer	-----	1	-----
Mr. Sagar Bodhankar	M.Sc	Lecturer	-----	1	-----
Ms. Neha A.Sheikh	M.Sc	Lecturer	-----	3	-----
Ms. Ashwini Kasulkar	M.Sc	Lecturer	-----	2	-----
Ms. Shama Murarkar	M.Sc, Ph.D	Assistant Professor	-----	-----	-----

11. List of senior visiting faculty:-**Nil**



12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty:-

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B.Sc.</b>	73 %	73 %
<b>M.Sc.</b>	73 %	73 %

13. Student -Teacher Ratio (programme wise):-1:44

SR.NO.	SESSION	Student Teacher Ratio
1.	2012-13	1:44
2.	2013-14	1:49
3.	2014-15	1:49
4.	2015-16	1:69

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:- **Nil**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.  
(Session 2012-13 Onwards)

Ph.D	MPhil	NET/SET	PG
02	01	01	08

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:-**Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:-**Nil**
18. Research Centre /facility recognized by the University:-**Nil**
19. Publications:

Number of papers published in peer reviewed journal (national / international) by faculty and students

a) Publication per faculty

❖ **Dr. Anita Chandak**

- Chandak A. and A Dhabekar (2010). “**Utilization of banana peels and beet waste for alcohol production**”, Asiatic Journal of Biotechnology resources, 01:8-13
- Chandak A.M. (2011). “**Novel approach for quantitative estimation of antifouling activities in Marine paint**”, African journal of Microbiology research, 5(20).
- Uchakalwar Pranita and Anita Chandak (2014). “**Production of single cell protein from fruit waste by using *Saccharomyces cerevisiae***”, International journal of advance Biotechnology and Research, 5(4):770-776.
- Kalbande V., R. Patle and A.M. Chandak (2015). “**Microbial activity of Lycopene against oral pathogen**”, World Journal of Pharmaceutical Research, 4(8):1965-1969. Impact factor 5.990





- Chandak M.A. and A.M. Chandak (2015). “**Survey on Plastic Waste Disposal Methods**”, Kamla Nehru Journal of Science and Technology, 01:101.
- Misar K., S Kulkarni, V. Mehre and A. Chandak (2015). “**Study of Clove oil as Antimicrobial agent against cosmetically important micro organisms**”, Kamla Nehru Journal of Science and Technology, 01:96.
- Misar K.,S.Kulkarni.,V.Meghre and A.Chandak (2015). “**Study of Cinnamon oil as natural antimicrobial agent,International Journal of Researches in Biosciences Agriculture and Technology**”, 6:415-417.
- Anita Chandak, “**Production of Liquid Bio- Fertilizer and to study its effectivly on plant growth**”, International Journal of Agricultural Science and Research (IJASR), Vol 6, Issue 3, June 2016. (Impact Factor: 4.798)
- Anita Chandak, “**Lycophene is wonder drug**” World Journal Of Pharmaceutical Research (WJPR) May 2016, [Impact Factor: 6.8].
- Anita Chandak, “**Optimization of condition for production of prodigiosin by Serratia marcences**”, World Journal Of Pharmaceutical Research (WJPR), May 2016, [Impact Factor: 6.8].
- Anita Chandak, “**Production of single cell protein from fruit wasteby using Saccharomyces cerevisiae**”, Internal Journal of Advanced Biotechnology and Research vol.5 Issue 4.2014 pp 770-776.
- Anita Chandak, “**Decolourization of synthetic dyes using spent mushroom substrate**”, International Journal of Research in Bioscience, Agriculture and Technology.
- Anita Chandak, “**Biodegradation of Textile dyes, malachite green and congo red by fungi and bacteria**”, International Journal of Researchers in Bio Sciences, Agriculture and Technologies Special Issue, Feb 2016, pp 63-65.
- Anita Chandak, “**Microbial contamination and preservative capacity of some brands of cosmetic creams**”, International Journal of Research in Cosmetic Science, ISSN 2277-7172, May 2016, Universal Research Publication.

#### ❖ Rohinee Patle

- Chandak A., R. Patle and Sayali Kulkarni (2015).Decolourization of synthetic dyes using spent mushroom substrate, International Journal of Researches in Biosciences Agriculture and Technology, 6:38-41.
- Kalbande V., R. Patle and A.M. Chandak (2015). Microbial activity of Lycopene against oral pathogen, World Journal of Pharmaceutical Research, 4(8):1965-1969. Impact factor 5.99

#### ❖ Aarti Dhabekar

- Dhabekar A. and A. Chandak (2010). Utilization of Banana peels and beet waste for alcohol production, Asiatic Journal of Biotechnology Resources, 01:8-13



❖ **Neha A.M. Sheikh**

- Gomase Ashok, Sheikh Neha A.M. and Gulhane Pranita A (2014). Production of Bioactive compound by *Bacillus subtilis* and its antagonistic activity against *Sclerotium rolfsii*, International journal of life sciences, 2(2):127-133

❖ **Ashwini V. Kasulkar**

- Gomase Ashok, Anjali Sharma and Ashwini Kasulkar (2014). Investigation of Biofilm Inhibition Activity and Antibacterial Activity of *Psidium guajava* plant extract against *Streptococcus mutans* causing Dental Plaque, International Journal of current Microbiology and Applied Sciences 3(9):335-351.

- \* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index

## 20. Areas of consultancy and income generated:-

SR.NO.	SESSION	Areas of consultancy and income generated
1.	2012-13	---
2.	2013-14	---
3.	2014-15	---
4.	2015-16	6775/- (Research Scholars from Cosmetic Technology)
5.	2016-17	---

## 21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards:- **Nil**

## 22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme: **100 % (PG Students)**

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies: **Nil**

## 23. Awards / Recognitions received by faculty and students-

1.	2014-15	Rtmnu, Inter-Collegiate Research Festival (Avishkar)	Ku.Narmada Parate	Awards
2.	2014	Avishkar University Level	Ku.Narmada Parate	First Price



3.	2015	State Level Student's Competition In Commemoration Of Centenary Of Shiksha Mandal, Wardha And Science Day Celebration	Mr.Aman Deogade	Consolation Prize
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4.	2015	National Science Day State Level Science Knowledge Test State Level Student's Competition In Commemoration Of Centenary Of Shiksha Mandal, Wardha And Science Day Celebration	Mr.Ashish Kawale	Consolation Prize
5.	2015	G.H. Rasoni Law School Second National Debate Competition	Ku.Kalyani Mishra	First Best Team Position
6.	2015	National Conference On Research Methodology In National Institute Of Miners Research	Ku. Khushbu Pende	Second Prize
7.	2015	Shivaji Science Intercollegiate Seminar Competition	Ku. Khushbu Pende	Consolation Prize

1.	2016	Group Dance Competition Shivaji Science College Of Science Nagpur	Ku. Payal Gudhane And Ku. Narmada Parate	First Prize
2.	2016	Avishkar 2016 Stage I Kamala Nehru Mahavidyalaya Nagpur	Bhagyashree Poddar	First Prize
3.	2016	Intercollegiat Research Festival Stage Ii	Bhagyashree Poddar	First Prize
4.	2016	Intercollegiat Research Festival Stage Iii	Bhagyashree Poddar	First Prize
5.	2016	Avishkar 2016 Stage I	Ruchika Sathawane	First Prize
6.	2016	Avishkar 2016 Stage Ii	Ruchika Sathawane	First Prize
7.	2016	Avishkar 2016 Stage Iii	Ruchika Sathawane	First Prize
8.	2016	Avishkar 2016 Stage I	Surbhi Rathi	First Prize
9.	2016	Avishkar 2016 Stage Ii	Surbhi Rathi	First Prize
10.	2016	Avishkar 2016	Surbhi Rathi	First Prize



		Stage Iii		
11.	2016	Avishkar 2016 Stage I	Aditi Bansule	First Prize

12.	2016	Avishkar 2016 Stage Ii	Aditi Bansule	First Prize
13.	2016	Avishkar 2016 Stage Iii	Aditi Bansule	First Prize
14.	2016	Ambedkar College	Vaishanavi Jagtap	Participation
15.	2016	Ambedkar College	Vaishanavi Ambilduke	Participation
16.	2016	Ambedkar College	Shivani Dhore	Participation
17.	2016	Ambedkar College	Asfiya Chisty	Participation

1.	2017	Yashwantrao Guddhe (Patil) Memorial College Of Arts Commerse And Science	Ms. Ragini Mohite	Participation
2.	2017	Yashwantrao Guddhe (Patil) Memorial College Of Arts Commerse And Science	Ms. Abhilasha Rodge	Participation

24. List of eminent academicians and scientists / visitors to the department

SESSION 2016-17

**Scientist Paul Elliote, Uk**

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National **Nil**

b) International : **Nil**

26. Student profile programme/course wise:

Course	Year	Applicatio n Received	Selecte d	Enrolled		Pass Percentage
				M	F	
B.Sc I	2012-13	172	172	33	139	33.72%
B.Sc sem I	2013-14	112	112	23	89	32.14%
	2014-15	141	141	23	118	36.87%
	2015-16	170	170	22	148	27.60%
B.Sc Sem II	2013-14	112	112	23	89	29.46%
	2014-15	140	140	22	118	61.42%
	2015-16	170	170	22	148	35.80 %
B.Sc II	2012-13	82	82	21	61	43.90%
	2013-14	129	129	24	105	18.60%
B. Sc Sem III	2014-15	86	86	18	68	61.42%
	2015-16	89	89	14	75	64%
B.Sc Sem IV	2014-15	80	80	14	66	45%
	2015-16	89	89	14	75	75.2%
B.Sc III	2012-13	52	52	7	47	75%



	2013-14	57	57	11	46	50.87%
	2014-15	73	73	11	62	60.27%

B.Sc Sem V	2015-16	72	72	11	61	62.5%
B.Sc Sem VI	2015-16	72	72	11	61	73.61%
M.Sc Sem I	2012-13	22	22	1	21	27.2%
	2013-14	20	20	4	16	15%
	2014-15	22	22	---	22	45.4%
	2015-16	22	22	---	22	86.6%
M.Sc Sem II	2012-13	22	22	1	21	18%
	2013-14	20	20	4	16	45%
	2014-15	22	22	---	22	50%
	2015-16	22	22	---	22	77.27%
M.Sc II	2012-13	6	6	---	6	66%
M.Sc Sem III	2013-14	25	25	---	25	52%
	2014-15	14	14	---	14	35.71%
	2015-16	23	23	---	23	26.08%
M.Sc Sem IV	2013-14	25	25	---	25	40%
	2014-15	14	14	---	14	50%
	2015-16	23	23	---	23	17.39%

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Sc I (2012-13)	178	1.68%	----
M.Sc I(2012-13)	22	4.4%	----

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Session	No. of Students qualified	Name of Students
<b>2012-13</b>	<b>02</b>	1. Trupta Wakde-NET 2. Roshan Kamanwar-NET
<b>2013-14</b>	<b>01</b>	1. Papendra Patle – NET
<b>2014-15</b>	<b>01</b>	1. Chandani Jivtani – NET

29. Student progression

Student progression	Against % enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	2	4	3	2	3



PG to M.Phil.	----	----	---	---	---
PG to Ph.D.	----	---	---	---	---
Ph.D. to Post-Doctoral	---	---	---	---	---
<b>Employed</b> • Campus selection • Other than campus recruitment					
Entrepreneurship/Self-employment	---	---	---	---	---

30. Details of Infrastructural facilities  
 a) Library-**60**  
 b) Internet facilities for Staff & Students--**Nil**  
 c) Class rooms with ICT facility **YES**  
 d) Laboratories--**YES**
31. Number of students receiving financial assistance from college, university, government or other agencies
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Session	Name of Guest	Designation	Topic
<b>2014- 2015</b>	Dr. Nitin Dongarwar	Associate Professor	Different Orchid Species of Maharashtra
<b>2015- 2016</b>	Mr. Rajendra Bhangu	Retired Forest officer	Wild life conservation
	Dr. B. K Sarangi	NEERI	Molecular Biology and Genetic Engineering
<b>2016- 2017</b>	Monica Raghorte	District Malaria Office, Nagpur	Vector Borne Disease
	Dr. Nandeshwar	CICR	Transgenic plants

33. Teaching methods adopted to improve student learning-  
 (ICT,VIVA,SEMINAR,GROUP DISCUSSION,LECTURE)
34. Participation in Institutional Social Responsibility (ISR) and Extension activities.  
**Session 2015-16**  
**Social Awareness Programme In School Sanitary Workers**
35. SWOC analysis of the department and Future plans

Strengths:	<ul style="list-style-type: none"> <li>• Good reputation of institute.</li> <li>• Adequate facilities for existing programme.</li> <li>• Good learning environment for students.</li> </ul>
Weakness:	<ul style="list-style-type: none"> <li>• Need to strengthen research activities.</li> </ul>



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	<ul style="list-style-type: none"><li>• Should strive for consultancy.</li></ul>
Opportunities:	<ul style="list-style-type: none"><li>• Scope for developing in higher education.</li><li>• Industry networking.</li></ul>
Challenges:	<ul style="list-style-type: none"><li>• Start courses.</li><li>• More effort to generate funds.</li><li>• Collaboration with National and International institute.</li></ul>

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## Cosmetic Technology

1. Name of the department : **Cosmetic Technology**
2. Year of Establishment: **2002(U.G.): B.Tech.**  
**2007 (P.G.): M.Tech.**
3. Names of Programmes / Courses offered (**UG- Bachelor of Cosmetic Technology, PG- Master of Cosmetic Technology**)
4. Names of Interdisciplinary courses and the departments/units involved – **Nil**
5. Annual/ semester/choice based credit system (programme wise)

Session	Under Graduate	Post Graduate
2012-13	Annual	Semester, Choice based system
2013-14	Annual	Semester, Choice based system
2014-15	Annual	Semester, Choice based system
2015-16	Annual	Semester, Choice based system
2016-17	Semester	Semester, Choice based credit system

6. Participation of the department in the courses offered by other departments -**Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. -**Nil**
8. Details of courses/programmes discontinued (if any) with reasons- **Nil**
9. Number of Teaching posts

	Sanctioned		Fill	
Professors				
Associate Professors				
Asst. Professors	U.G	P.G	U.G	P.G
	10	04	02	03

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Mrs. Ketki Misar	M. Tech. (Cosmetic)	Assistant Professor	-	7 Yrs.	-
Mrs. Suchita Bhise	M. Tech. (Cosmetic)	Assistant Professor	-	5 Yrs.	-





Ms. Smita Parate	M. Tech. (Cosmetic)	Assistant Professor	-	5 Yrs.	-
Mrs. Rajani Wadhankar	M. Tech. (Cosmetic)	Ad-Hoc Lecturer	-	3Yrs.	-
Ms. Manjusha	M.Sc. (Chemistry)	Ad-Hoc Lecturer	-	2Yrs.	-
Ms. Minakshi Punekar	B.Tech. (Chemical)	Ad-Hoc Lecturer	-	2Yrs.	-
Ms. Diksha Chavan	M. Tech. (Cosmetic)	Assistant Professor	-	1Yrs.	-
Ms. Yughandhara	M. Tech. (Cosmetic)	Ad-Hoc Lecturer	-	2 Yrs.	-
Ms. Dipenti Pohare	M. Tech. (Cosmetic)	Assistant Professor	-	1Yrs.	-
Ms. Ashwini Barve	M.Sc. (Chemistry)	Ad-Hoc Lecturer	-	4Yrs.	-

11. List of senior visiting faculty-

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Session	% of Lecture delivered by Temporary Faculty		% of Practical Classes Handled	
	U.G	P.G	U.G	P.G
2012-13	89%	90%	85%	92%
2013-14	90%	91%	89%	87%
2014-15	87%	92%	90%	93%
2015-16	92%	98%	88%	92%
2016-17	88%	89%	91%	90%

13. Student -Teacher Ratio (programme wise)

Session	Student -Teacher Ratio U.G.	Student -Teacher Ratio P.G.
2012-13	7:1	6:1
2013-14	7:1	6:1
2014-15	6:1	6:1
2015-16	7:1	3:1
2016-17	9:1	3:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled – 03

Sr.No.	Name of Faculty	Status
1.	Mr. V.B. Shirpurkar	Administrative Staff Member
2.	Mr. P. K. Raut	Lab Attendant
3.	Mrs. Vidya Khandate	Lab Attendant



15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
-	-	-	10

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received- **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received-**Nil**

18. Research Centre /facility recognized by the University -**Nil**

19. Publications:

\* a) Publication per faculty

\* Number of papers published in peer reviewed journals (national /international) by faculty and students

S. N.	Name of Lecturer	Title of Paper	Name of Author	Name of Journal	ISSN No. /ISBN No. /Impact factor	Year of Publication
1.	<b>Mrs. Ketki Misar</b>	1.Study of Night Jasmine as Antibacterial Agent	K. Misar, S. Kulkarni, V. Meghre	Research Journal- L. A. D. College Nagpur, Half Yearly journal of Science, Arts, Social Science, Commerce, Home Science & Home Science Technology	ISSN: 0974-0317 Research journal Vol. 8 , No. (2), 2012	2012
		2.Study of Clove oil As Antibacterial Agent Against Cosmetically Important Microorganisms	K. Misar, S. Kulkarni, V. Meghre, A. Chandak	Kamla Nehru journal of Science and Technology	KNJST-2015 Vol. -I / ISBN: 978-93-81432-97-6	2015
		3.Study of Cinnamon Oil As Natural Antimicrobial Agent	K. Misar, S. Kulkarni, V. Meghre, A. Chandak	International Journal of Researches in Biosciences, Agriculture & Technology(IJRB AT)	ISSN :2347-517X (Online) Special Issue-(6)	October - 2015
		4.Formulation, Development And Evaluation of foot Cream With Ficus Religiosa	S. Parate, K. Misar, D. Chavan	International Journal of Researches in Biosciences, Agriculture & Technology(IJRB AT)	ISSN :2347-517X (Online) Special Issue-(6)	October - 2015



2.	<b>Mrs. Suchita Bhise</b>	1. Sodium Pyrrolidone Carboxylic Acid As Moisturizing Agent	S. Bhise	International Journal of Chem Tech. Research	CODEN (USA) IJCRGG / ISSN : 0974-4290 vol. 5 ,No. 4 , PP 1448-1451	April-June 2013
		2. Determination of Antioxidant Activity And Phytochemical Screening of Momordica dioica Linn. Fruit Extracts in Non-Polar to Polar Solvents	Suchita Bhise and Sheela Kulkarni	International Journal of Current Pharmaceutical And Clinical Research (IJCPCR)	ISSN : 2248-9134/ Vol. 5/ Issue -3 /189-192	2015
		3. Phytochemical Screening And Free Radical Scavenging Activity of Luffa cylindrical (Linn.) Fruit Extracts in Non – Polar To Polar Solvents	SM.Bhise & SB. Kulkarni	International Journal Of Pharmaceutical ,Chemical and Biological Sciences (IJPCBS)	ISSN : 2249-9504 / Vol. 5(3), 617-621	2015
		4. Determination of Antioxidant Activity And Phytochemical Screening of Cucurbita maxima Duch.. Fruit Extracts in Non-Polar to Polar Solvents	Suchita Bhise and Sheela Kulkarni	International Journal of Pharm Tech. Research	CODEN (USA) IJPRIF / ISSN : 0974-4304 vol. 8, No. 4 , PP 771-775	2015
		5. Determination of Antioxidant Activity And Phytochemical Screening of Cucumis sativus Linn. Fruit Extracts in Non-Polar to Polar Solvents	S. Bhise, S. Kulkarni	International Journal of Researches in Biosciences, Agriculture & Technology(IJRB AT)	ISSN :2347-517X (Online) Special Issue-(6)	October - 2015



		6. Phytochemical Screening And Free Radical Scavenging Activity of Citrullus colocynthis (Linn.) Fruit Extracts in Non – Polar To Polar Solvents	S. Bhise, S. Kulkarni,	Kamla Nehru journal of Science and Technology	KNJST / ISBN: 978-93-81432-97-6	Accepted
3.	<b>Ms. Smita Parate</b>	1. Formulation, Development And Evaluation of foot Cream With Ficus Religiosa	S. Parate, K. Misar, D. Chavan	International Journal of Researches in Biosciences, Agriculture & Technology(IJRB AT	ISSN :2347-517X (Online) Special Issue-(6)	October - 2015

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - Nil

- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index

20. Areas of consultancy and income generated-

S. N.	Session	Type of Consultancy	Income Generated
1	2014-15	Skin Cream Formulation to Government Ayurvedic College	3500/-
2	2016-17	Extraction of Medicinal Herbs	3500/-

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards - **Nil**

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme

Sr. No.	Session	No. of Students in Post Graduate	% of In house Projects by P.G students
1.	2012-13	9	100%
2.	2013-14	11	100%



3.	2014-15	11	100%
4.	2015-16	9	100%
5.	2016-17	-	-

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

Sr. No.	Session	% of Students Placed for projects in Industry (B. Tech. Part III )
1	2012-13	92.85%
2	2013-14	45.83%
3	2014-15	87.50%
4	2015-16	58.33%
5	2016-17	-

23. Awards / Recognitions received by faculty and students - Nil

24. List of eminent academicians and scientists / visitors to the department –

1. Dr. Mrs. Sheela Kulkarni – HOD, Cosmetic Department, LAD College , Nagpur
2. Mr. H.H. Meshram – Associate Professor , Cosmetic Department, LAD College , Nagpur
3. Dr. D. D. Wasule - Associate Professor , Cosmetic Department, LAD College , Nagpur
4. Mrs. S. Chande- Assistant Professor, Nikalas Mahavidyalaya, Nagpur
5. Dr. B. Ganu- Assistant Professor, Nikalas Mahavidyalaya, Nagpur
6. Mrs. P. Lakhe- Assistant Professor, Nikalas Mahavidyalaya, Nagpur
7. Mrs. M. Borikar- Assistant Professor, Nikalas Mahavidyalaya, Nagpur
8. Mrs. Shweta Lokhande- Assistant Professor, Mahila Mahavidyalaya, Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding – Nil

a) National b) International

26. Student profile programme/course wise:

Name of the Course/programme		Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
U.G. (B. Tech. 2012-13)	PART -I	29	29	04	25	20.68%
	PART -II	14	14	00	14	28.87%
	PART -III	16	16	03	13	50%
2013-14	PART -IV	14	14	02	12	92.85%
	PART -I	21	21	01	20	23.80%
	PART -II	24	24	02	22	37.50%
	PART -III	12	12	00	12	41.66%



	PART -IV	19	19	02	17	94.44%
<b>2014-2015</b>	PART -I	20	20	02	18	20%
	PART -II	14	14	00	14	50%
	PART -III	20	20	04	16	65%
	PART -IV	11	11	00	11	90.90%
<b>2015-2016</b>	PART -I	38	38	05	33	21.05%
	PART -II	12	12	01	12	25%
	PART -III	10	10	00	10	80%
	PART -IV	18	18	03	15	82.35%
<b>2016-17</b>	Semester I	40	40	07	33	Result
	PART -II	31	31	05	26	Result
	PART -III	11	11	01	10	Result
	PART -IV	10	10	01	09	
<b>P.G. (M. Tech.)</b>						
2012-13	Semester-I	11	11	00	11	83.33%
	Semester-II	10	10	00	10	90.00%
	PART -II	07	07	00	07	100%
2013-14	Semester- I	14	14	01	13	78.57%
	Semester-II	12	12	01	11	41.66%
	Semester -III	11	11	00	11	72.72%
	Semester-IV	07	07	00	07	85.71%
2014-15	Semester- I	12	12	04	08	54.54%
	Semester-II	12	12	02	10	60.00%
	Semester -III	11	11	01	10	72.72%
	Semester-IV	11	11	01	10	90.90%
2015-16	Semester -III	11	11	01	10	90.90%
	Semester-IV	09	09	01	08	44.44%
2016-17	Semester-I	09	09	00	09	33.33%
	Semester-II	09	09	00	09	Result

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course (Bachelor of Cosmetic Technology)	% of students from the same state		% of students from other States		% of students from abroad
	U.G.	P.G.	U.G.	P.G.	
Session					
2012-13	97.26%	100%	2.73%	0%	-
2013-14	98.68%	100%	1.31%	0%	-
2014-15	96.92%	100%	3.07%	0%	-
2015-16	98.71%	100%	1.28%	0%	-
2016-17	96.62%	100%	3.37%	0%	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **Nil**



## 29. Student progression

Student progression	Against % enrolled	
UG to PG	Session	%
	2012-13	44.44%
	2013-14	71.42%
	2014-15	50%
	2015-16	-
	2016-17	-
PG to M.Phil.	-	
PG to Ph.D.	-	
Ph.D. to Post-Doctoral	-	
<b>Employed</b>		
• Campus selection		
• Other than campus recruitment		
-Other than Campus recruitment	Session	%
	2012-13	50%
	2013-14	57.89%
	2014-15	78.57%
	2015-16	44.44%
	2016-17	-
Entrepreneurship/Self-employment	-	

## 30. Details of Infrastructural facilities

- a) Library - **105 Books**  
 b) Internet facilities for Staff & Students - **Nil**  
 c) Class Rooms with ICT facility- **Yes**  
 d) Laboratories- **3 Laboratories**

31. Number of students receiving financial assistance from college, university, government or other agencies –**Nil**

## 32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

S. N.	Session	Date	Activity	Total Number of Activities	Guest
1.	2012-13	25-03-13	Presentation on Contract Research	1	Mr. Vinay Kumar Singh, GM ,Mikasa Cosmetics , Gujrat
2.	2013-14	23-08-13	Seminar & Poster Presentation on “Recent Trends in Cosmetics”	3	Mr. Benedict Mascarenhan, Secretary , ISCC, Mumbai
	2013-14	10-12-	Guest Lecture		



		13	on <b>‘Opportunities in Cosmetic Field’</b> & Poster Presentation Competition on <b>“Recent Development in Cosmetics”</b>		Dr. Mrs. Sheela B. Kulkarni, HOD, Dept. of Cosmetics, L.A.D., College, Nagpur
	2013-14	19-12-13	Workshop on Skin & Hair Care		Dr. Jillhare, Ex-Professor, GMC Nagpur

S. N.	Session	Date	Activity	Total Number of Activities	Guest
3.	2014-15	26-12-14	Workshop on ‘Delivery systems of Cosmetics’	2	Mr. Bibhor Tripathi, Manager, Abbott Pharmaceuticals, Nagpur
	2014-15	27-01-15	Seminar on Application of Chemical Engineering in Cosmetic Technology		Mr. Mangesh Waghmare
4.	2015-16	03-09-15	Group Discussion on Industrial Training	2	Faculty members and Students of Department
	2015-16	18-12-15	Workshop on Skin Awareness and Detection Camp		Dr. Rupa Aditya, Dermatologist, Nagpur
5.	2016-17	01-07-2016	Plantation of Medicinal Herbs	2	Faculty members and Students of Department
	2016-17	08-07-2016	Guest lecture on ‘Motivational Aspects of Cosmetic Technology’		Dr. Prabodh Halde, Manager, Marico India Pvt. Ltd

33. Teaching methods adopted to improve student learning: **Lectures, Demonstrations, Power point presentation, Group discussions, Student’s seminars etc.**

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Extension activity

Sr. No.	Session	No. Of Social	Nature of Social Activity
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		Activity	
1.	2013-14	1	Counseling on Skin care–feet treatment in and Hand slum areas
2.	2014-15	1	Counseling on Skin care–feet treatment in and Hand slum areas
3.	2015-16	1	Counseling on Skin care–feet treatment in and Hand slum areas
4.	2016-17	1	Counseling on Skin care–feet treatment in and Hand slum areas

35. SWOC analysis of the department and Future plans

**Strength:**

- Well equipped UG Laboratory.
- Enriched departmental library.
- Hard working faculty.
- Committed and obliging non-teaching staff.
- Brilliant, obedient, disciplined students.

**Weakness:**

- Slow economic and industrial growth of Nagpur region.
- Less employment opportunities for B.Tech. pass outs in Nagpur region.
- Percentage of Students pursuing higher education is less.

**Opportunity:**

- Employment potential in various Cosmetic Industries.
- To participate in various activities organized by the college.
- To explore hidden talent in cultural activities organized during Shardsava.
- More exposure is given to the students on advanced instruments available in various departments.

**Challenges:**

- Declined interest in admission due to lack of awareness, so improvement in admission process.

**Future Plan:**

- To form Cosmetic Society.
- To arrange guest lecturers to enrich the knowledge of students.
- To arrange students seminars.
- To guide students for various Competitive examination in life sciences.



**BIOCHEMISTRY**

- Name of the department - **BIOCHEMISTRY**
- Year of Establishment - **UG-2003** **PG- 2004**
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) – **UG and PG (B.Sc. and M.Sc.)**
- Names of Interdisciplinary courses and the departments/units involved - **Nil**
- Annual/ semester/choice based credit system (programme wise) –

Neme of programme	
<b>B.Sc.</b>	<b>Semester, CBS</b>
<b>M.Sc.</b>	<b>Semester, CBCS</b>

- Participation of the department in the courses offered by other departments - **Nil**  
Certificate course
- Courses in collaboration with other universities, industries, foreign institutions, etc. - **Nil**
- Details of courses/programmes discontinued (if any) with reasons - **Nil**
- Number of teaching posts

	<b>Sanctioned</b>	<b>Filled</b>
Professors		
Associate Professors		
Asst. Professor -	<b>06</b>	<b>06</b>

- Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualificati on	Designati on	Specializatio n	No. of Years of Experie nce	No. of Ph.D. Students guided for the last 4 years
Mrs. Meenakshi Taide	M.Sc	Head of the departmen	-----	11	-----
Ms. Sonali Bhavarkar	M.Sc	Lecturer	-----	08	-----
Ms. Neha Lakde	M.Sc	Lecturer	-----	02	-----
Ms. Sauda Sheikh	M.Sc	Lecturer	-----	01	-----



Ms. Pallavi umap	M.Sc	Lecturer	-----	01	-----
Dr. N. Krishnamurthy	Ph.D, NET	Lecturer	Medical Biochemistry	----	----

11. List of senior visiting faculty - Not applicable
12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B.Sc.</b>	100 %	100 %
<b>M.Sc.</b>	80 %	80 %

13. Student -Teacher Ratio (programme wise)

year	Ratio
2012-2013	18:1
2013-2014	20:1
2014-2015	38:1
2015-2016	27:1
2016-17	38:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Technical – **01**  
Administrative staff – **Nil**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG

Ph.D	MPhil	NET/SET	PG
01	--	01	05

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received - **Nil**

18. Research Centre /facility recognized by the University - **Nil**

19. Publications:

- \* a) Publication per faculty- 5
- \* Number of papers published in peer reviewed journals (national / International) by faculty and students - 5 (By faculty)
  1. **N.Krishnamurthy**, Usha Anand, C.V.Anand. Performance characteristics of serum cystatin C methodology based on Immuno turbidometry and Nephelometry. National Journal of Technology. 2011; 7(2): 8 – 10.



2. **N.Krishnamurthy**, K. Arumugasamy, Usha .Anand, C.V. Anand, V.Aruna, and G.Venu. Serum cystatin C levels in Renal Transplant Recipients. Indian Journal of Clinical Biochemistry. 2011; 26(2): 120-124.
3. **N.Krishnamurthy**, K. Arumugasamy, Usha Anand, C.V. Anand, V.Aruna, G.Venu and R.Gayathri. Effect of hemodialysis on circulating cystatin C levels in patients with End Stage Renal Disease. Indian Journal of Clinical Biochemistry. 2010; 25(1): 43 – 46.
4. **N.Krishnamurthy**, K. Arumugasamy, Usha Anand, C.V. Anand, G.Venu. Diagnosis of chronic renal disease by measurement of serum creatinine and serum cystatin C - a comparative study. Biomedicine. 2010; 30 (4): 532 – 538.
5. **N.Krishnamurthy**, K. Arumugasamy, K.Perinbam, Usha Anand, C.V. Anand, V.Aruna, and V. Aruna. Serum cystatin C as a sensitive marker of GFR in elderly patients with Chronic Kidney Disease. National Journal on ChemBiosis.2010; 1 (1): 19 -22.

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) -	<b>02</b>
Monographs -	<b>Nil</b>
Chapter in Books -	<b>Nil</b>
Books Edited -	<b>Nil</b>
Books with ISBN/ISSN numbers with details of publishers -	<b>Nil</b>
Citation Index -	<b>18 (for 2 papres)</b>
SNIP-	<b>Nil</b>
SJR-	<b>0.34</b>
Impact factor	<b>Nil</b>
h-index-	<b>Nil</b>

20. Areas of consultancy and income generated- Not Applicable
21. Faculty as members in
  - a) National committees b) International Committees c) Editorial Boards....  
- **Nil**
22. Student projects
  - a) Percentage of students who have done in-house projects including inter departmental/programme: **100 %**
  - b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies - **Nil**
23. Awards / Recognitions received by faculty and students - not applicable
24. List of eminent academicians and scientists / visitors to the department

Sr.No	Session	Name of course
-------	---------	----------------



1	2012-13	1.Dr.B.K.Sarangi, Principal Scientist NEERI, Nagpur
2	2013-14	1.Dr.A.S.Kulkarni Department of Microbiology Dharampeth Science College, Nagpur
3	2014-15	Dr.C.A.Lade LAD college, Nagpur
4	2015-16	1.Dr.Balasubramaniam, CICR, Nagpur 2. Dr.Amudha, CICR, Nagpur
5	2016-17	1.Dr.Nandeshwar CICR, Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding  
a) National b) International Nil

26. Student profile programme/course wise:

Academic Year	Name of the Course/program	Applications received	Selected	Enrolled		Pass Percentage
				*M	*F	
2012-13	B.Sc I yr	41	40	14	27	30.33%
	B.Sc II Yr	20	20	02	18	60.95%
	B.Sc.III Yr	13	08	02	11	55.55%
	M.Sc I Yr	----	----	----	----	----
	M.Sc II Yr	01	01	00	01	100%
2013-14	B.Sc I yr	65	56	13	52	50.67%
	B.Sc II Yr	33	15	14	19	55.64%
	B.Sc.III Yr	10	10	02	08	60.83%
	M.Sc I Yr	----	----	----	----	----
	M.Sc II Yr	-----	----	-----	----	----
2014-15	B.Sc I yr	94	71	24	68	66.52%
	B.Sc II Yr	64	64	12	52	50%
	B.Sc.III Yr	23	21	03	20	22.08%
	M.Sc I Yr	01	01	00	01	00
	M.Sc II Yr	-----	-----	-----	-----	-----
2015-16	B.Sc I yr	101	84	21	80	78.88%
	B.Sc II Yr	60	58	16	44	90%
	B.Sc.III Yr	23	23	05	18	100%
	M.Sc I Yr	09	09	02	07	96%
	M.Sc II Yr	01	01	00	01	100%
2016-17	B.Sc I yr	98	----	29	69	-----
	B.Sc II Yr	62	----	13	55	-----
	B.Sc.III Yr	51	-----	13	38	-----
	M.Sc I Yr	05	05	04	01	-----
	M.Sc II Yr	07	07	01	01	-----

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
2012-2013 B.Sc III yr	9	9	2	7	55.55%
M.Sc.II Yr	1	1	0	1	100%



2013-14	B.Sc III yr M.Sc.II Yr	10 ----	10 ----	2 ----	8 ----	60% ----
2014-15	B.Sc III yr M.Sc.II Yr	24 ----	23 ----	4 ----	20 ----	22.08% ----
2015-16	B.Sc III yr M.Sc. II Yr	24 1	24 1	5 0	19 1	95.83% 0%

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2012-13	98.64%	0.13%	---
2013-14	---	---	---
2014-15	---	---	---
2015-16	98.78%	0.12%	---
2016-17	98.23%	1.7%	---

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.- nil

29. Student progressions

Student progression	Against % enrolled
UG to PG	60%
PG to M.Phil.	----
PG to Ph.D.	----
Ph.D. to Post-Doctoral	----
<b>Employed</b> • Campus selection • Other than campus recruitment	
Entrepreneurship/Self-employment	

30. Details of Infrastructural facilities

- a) Library– **Yes (no. of books -89)**
- b) Internet facilities for Staff & Students - **Yes**
- c) Class rooms with ICT facility - **Yes**
- d) Laboratories - **Yes**



31. Number of students receiving financial assistance from college, university, Government or other agencies - **Nil**
32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts-
  - **Expert lecture on biotechnology by Amudha madam & Dongarwar sir**
  - **Lecture on agriculture biotechnology by Nandeshwar sir**
33. Teaching methods adopted to improve student learning-  
**ICT, group discussion, seminar, viva.**
34. Participation in Institutional Social Responsibility (ISR) and Extension activities – blood group identification & awareness about HIV.
35. SWOC analysis of the department and Future plans.

**Strength** – 1) Faculty member having PhD with NET and IVD Industrial experience.  
2) Published 5 papers in international & national journals.  
3) Large number of students.

**Weakness** – 1) Lack of awareness in the students regarding the scope of the subject..

**Opportunity** - 1) Summer training to students in research institution.  
2) Writing research proposals to DBT, ICMR, and UGC conducting national conferences with the help of UGC & Dept function.

**Challenges** - 1) Encouraging students to write exams like NET for LS as well as JRF and competitive exams.  
2) Counseling for higher studies for getting better opportunity.

**Future plan-**

To enhance departmental Library.

To conduct Inter collegiate seminar and poster competition.

To conduct certificate courses.



## Zoology

1. Name of the department: **Zoology**
2. Year of Establishment: **UG: 2003 ; PG: 2005**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)- UG and PG  
UG- CBZ, CMZ, CZES, BTBCZ, BTCZ  
PG- ZOOLOGY
4. Names of Interdisciplinary courses and the departments/units involved
5. Annual/ semester/choice based credit system (programme wise): CBCS (UG and PG)

YEAR	UG	PG
2012-13	ANNUAL	CBS
2013-14	SEMESTER	CBS
2014-15	SEMESTER	CBS
2015-16	SEMESTER	CBCS
2016-17	SEMESTER	CBCS

6. Participation of the department in the courses offered by other departments
7. Courses in collaboration with other universities, industries, foreign institutions, etc.
8. Details of courses/programmes discontinued (if any) with reasons
9. Number of Teaching posts

	Sanctioned	Filled
Professors	--	--
Associate Professors	--	--
Asst. Professors	8	8

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr D. R. Saxena	M.Sc, Ph.D	HOD	Fresh Water Zoology	9 Years	--





Ms F. A. Karim	M.Sc, B.Ed, Ph. D regd. 2017	Ad-hoc lecturer	Cell Biology	11 Years	--
Ms S. S. Rakshak	M.Sc, B.Ed	Ad-hoc lecturer	Cell Biology	4 Years	--
Mrs L. V. Kharwade	M.Sc, B.Ed	Ad-hoc lecturer	Cell Biology	4 Years	--
Ms S. D. Chankapure	M.Sc	Ad-hoc lecturer	MRP	2 Years	--
Ms K. A. Gosavi	M.Sc	Ad-hoc lecturer	MRP	2 Years	--
Ms K. E. Landge	M.Sc, M.Phil, Ph. D regd.	Ad-hoc lecturer	MRP	2 Years	--
Ms V. D. Sawarkar	M.Sc, B.Ed	Ad-hoc lecturer	Cell Biology	4 Years	--

11. List of senior visiting faculty: --

12. Percentage of lectures delivered and practical classes handled (programme wise)

by temporary faculty

Name of faculty	UG		PG	
	Theory	Practical	Theory	Practical
Ms F. A. Karim	95%	90%	96%	92%
Ms S. S. Rakshak	85%	88%	87%	85%
Mrs L. V. Kharwade	95%	90%	95%	95%
Ms S. D. Chankapure	96%	94%	92%	90%
Ms K. A. Gosavi	95%	92%	96%	94%
Ms K. E. Landge	92%	90%	94%	92%
Ms V. D. Sawarkar	92%	90%	94%	93%

13. Student -Teacher Ratio (programme wise)

YEAR	STUDENT TEACHER RATIO
2012-13	24:1
2013-14	30:1
2014-15	37:1
2015-16	43:1
2016-17	46:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled



15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Name of faculty	Qualification
Dr D. R. Saxena	M.Sc, Ph.D
Ms F. A. Karim	M.Sc, B.Ed, Ph. D regd. 2017
Ms S. S. Rakshak	M.Sc, B.Ed
Mrs L. V. Kharwade	M.Sc, B.Ed
Ms S. D. Chankapure	M.Sc
Ms K. A. Gosavi	M.Sc
Ms K. E. Landge	M.Sc, M.Phil, Ph. D regd.
Ms V. D. Sawarkar	M.Sc, B.Ed

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received
18. Research Centre /facility recognized by the University: No
19. Publications:

a) Publication per faculty Number of papers published in peer reviewed journals (national / international) by faculty and students

- 1) Dr D. R. Saxena:

Ms D. S. Takalkar, M. Shinkhede, Dr D. R. Saxena- Screening Vavding for antibacterial activity: ISRJ 11/01/2013. IF-0.2105. Natoinal seminar. ISSN No. '2230-785'

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- 1) **Dr D. R. Saxena 1)ISBN -978-93-82962-38-0,2014**
- 2) **ISBN- 978-93-82962-69-0, 2015**  
GC Publisher, Nagpur
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor



\* h-index

20. Areas of consultancy and income generated
21. Faculty as members in  
a) National committees b) International Committees c) Editorial Boards....
22. Student projects  
a) Percentage of students who have done in-house projects including inter departmental/programme  
b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies
23. Awards / Recognitions received by faculty and students
24. List of eminent academicians and scientists / visitors to the department
25. Seminars/ Conferences/Workshops organized & the source of funding a) National Nil b) International Nil
26. Student profile programme/course wise:

Year	Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2013	B.Sc I	124	124	26	98	35.48%
	B.Sc II	37	37	01	36	83.37%
	B.Sc III	16	16	3	13	81.25%
2014	B.Sc I(SEM 2)	129	129	31	98	36%
	B.Sc II	66	66	11	55	56.06%
	B.Sc III	22	21	NIL	22	95.45%
2015	B.Sc I(SEM 2)	90	90	19	71	33.33%
	B.Sc II(SEM 4)	88	88	17	69	36.36%
	B.Sc III	43	43	4	39	81.39%
2016	B.Sc I(SEM2)	167	167	30	137	18.56%
	B.Sc II(SEM 4)	118	118	23	85	22.88%
	B.Sc III(SEM 6)	48	48	8	40	82.97%

\*M = Male \*F = Female



## 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2012-13	1.5%	98.5%	--
2013-14	0.68%	99.31%	--
2014-15	0.58%	99.41%	--
2015-16	0.56%	99.43%	--

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

## 29. Student progression

Student progression	Against % enrolled
UG to PG	15 %
PG to M.Phil.	nil
PG to Ph.D.	1 %
Ph.D. to Post-Doctoral	Nil
<b>Employed</b>	
• Campus selection	10
• Other than campus recruitment	05
Entrepreneurship/Self-employment	Nil

## 30. Details of Infrastructural facilities

- a) Library- Departmental and main library- **104**
- b) Internet facilities for Staff & Students-**Nil**
- c) Class rooms with ICT facility -**Nil**
- d) Laboratories-**UG and PG lab**

31. Number of students receiving financial assistance from college, university, Government or other agencies-**Nil**

## 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

**Guest lecture organized by department of zoology on topic “WAYS OF TIGERS” on 23<sup>rd</sup> feb 2017 by Dr A. N. Lonkar NUMW college, Umred, Nagpur**



33. Teaching methods adopted to improve student learning  
**BB, OHP, Laptop, models and E-learning**
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Distribution of Larvivorous fish to local slum residence for Malaria Control.
  - Distribution of ornamental plants and trees sapling to local slum residence behind Bolywood centre point, Sakkardara, Nagpur
35. SWOC analysis of the department and Future plans

#### **STRENGTH**

- 1) Equipments, apparatus, charts, models, glass wares etc. of UG & PG level.
- 2) Devoted and dedicated staff.

#### **WEAKNESS**

1. Lack of opportunity for BOS representation as department is non-granted.

#### **OPPORTUNITIES**

1. For PG students to carry out research projects

#### **CHALLENGES**

- 1) Counseling, mouth publicity to encourage more enrolments of students at UG and PG level
2. Creating conducive environment in department among students for enhancing learning.

#### **Future plans**

- 1) Research paper publication by teaching staff who are active in research in the department
- 2) Collaborating with other institution academic and research and MoU for interdisciplinary research
- 3) Guide students for PhD work



**COMMERCE**

1. Name of the department: **COMMERCE**
2. Year of Establishment : **1984**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) **B.Com, M.Com, BBA, BCCA**
4. Names of Interdisciplinary courses and the departments/units involved **Nil**
5. Annual/ semester/choice based credit system (programme wise)

Academic Year	UG	PG
2012-13	Yearly Pattern	CBS ( M.Com I )
2013-14	Yearly Pattern	CBS
2014-15	Yearly Pattern	CBS
2015-16	Yearly Pattern	CBS

2016-17

B.Com. I	CBCS
B.Com II	Yearly Pattern
B.Com III	Yearly Pattern
M.Com.	CBS
BBA I	CBCS
BBA II	Yearly Pattern
BBA III	Yearly Pattern
BCCA I	CBCS
BCCA II	Yearly Pattern
BCCA III	Yearly Pattern

6. Participation of the department in the courses offered by other departments **Nil.**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. **Nil**
8. Details of courses/programmes discontinued (if any) with reasons  
**No such courses**
9. Number of Teaching posts

	Sanctioned	Filled
Professors	--	--
Associate Professors	05	05
Asst. Professors	14	14

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr. Arvind Shende	M.Com. M.Phil , Ph. D ( Principal )	Principal	Commerce and Management	33	08
Dr. Bharat Meghe	M.Com. M.Phil , Ph. D	Associate Professor	Commerce and Management	33	12
Dr. Ashok Kamble	M.Com. M.Phil Ph.D.	Associate Professor	Commerce and Management	29	NIL
Mr. Sandesh Titre	M.Com. M.Phil	Associate Professor	Commerce and Management	29	NIL
Mr. Anil Bhaik	M.Com. M.A. ( Eco ) M.Phil	Associate Professor	Commerce and Management	28	NIL
Dr. Ninad Kashikar	M.Com, M.Com.( Professional) M.Phil	Assistant Professor	Commerce and Management	15	NIL
Mr. Anant Sidana	M.Com. NET	Assistant Professor	Commerce and Management	03	NIL
Mr. Pranav Lakhe	M.Com. NET	Assistant Professor	Commerce and Management	01	NIL
Mrs. Rajshree Hirekhan	B.Sc. MBA NET	Assistant Professor	Management	07	NIL
Mrs.Meenal A. Warkhade	M.Com, MCM	Ad-hoc	Commerce and Management	05	NIL
Mr. Chaitanya Sakhare	M.Com. M.Phil. NET	Ad-hoc	Commerce and Management	03	NIL
Ms. Mamta Bhajipale	M.Com. M.Phil	Ad-hoc	Commerce and Management	01	NIL
Ms. Ranjana Katole	M.Com.	Ad-hoc	Commerce and Management	01	NIL
Mr. Jijo Pious	M.Com.	Ad-hoc	Commerce and Management	02	NIL
Mr. Dharmesh Shrawane	M.Com.	Ad-hoc	Commerce and Management	07	NIL
Dr. Lukesh S. Bobade	M.Com.	Ad-hoc	Commerce and Management	02	NIL
Mrs. Seema Nagrare	M.Com. Mphil	Ad-hoc	Commerce and Management	01	NIL
Mr. Nihar S. Dahake	M.Com.	Ad-hoc	Commerce and Management	01	NIL
Ms. Kiran Gaikwad	M.Com.	Ad-hoc	Commerce and Management	02	NIL

11. List of senior visiting faculty: **NIL**

12. Percentage of lectures delivered and practical classes handled (programme wise) by



temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B.Com.</b>	33.33 %	100%
<b>BCCA</b>	100 %	100 %
<b>BBA</b>	73.68 %	100 %
<b>M.Com.</b>	56.25 %	Nil

13. Student -Teacher Ratio (programme wise)

Courses	Students Teacher Ratio				
	2012-13	2013-14	2014-15	2015-16	2016-17
<b>B.Com.</b>	52 : 1	50 : 1	57 : 1	47 : 1	48 : 1
<b>BCCA</b>	81 : 1	72 : 1	84 : 1	73 : 1	66 : 1
<b>BBA</b>	49 : 1	62 : 1	63 : 1	57 : 1	58 : 1
<b>M.Com.</b>	26 : 1	32 : 1	34 : 1	37 : 1	35 : 1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled **N.A.**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ / PG.(for the session 2016-17 )

Ph.D.	MPhil	NET/SET	PG
<ul style="list-style-type: none"> <li>• Dr. Arvind Shende</li> <li>• Dr. Bharat Meghe</li> <li>• Dr. Ashok Kamble</li> <li>• Dr. Ninad Kashikar</li> </ul>	<ul style="list-style-type: none"> <li>• Mr. Sandesh Titre</li> <li>• Mr. Anil Bhaik</li> </ul>	<ul style="list-style-type: none"> <li>• Mr. Anant Sidana</li> <li>• Mr. Pranav Lakhe</li> <li>• Mrs. Rajshree Hirekhan</li> <li>• Mr. Nihar Dahake</li> </ul>	<ul style="list-style-type: none"> <li>• Mrs. Minal Warkhede</li> <li>• Ms. Mamta Bhajipale</li> <li>• Ms. Ranjana Katole</li> <li>• Mr. Dharmesh Shrawane</li> <li>• Mr. Jijo Pious</li> <li>• Mrs. Priya Wagh</li> </ul>
<b>04</b>	<b>02</b>	<b>04</b>	<b>06</b>

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Name of Faculty	Grant Received from UGC
<b>Dr. Arvind Shende ( Minor Project )</b>	<b>1,35,000</b>
<b>Dr. Arvind Shende ( Major Project )</b>	<b>9,20,000</b>
<b>Mr. Sandesh Titre</b>	<b>90,000 ( Sanctioned )</b>

18. Research Centre /facility recognized by the University Ph. D. Research Centre ( In Commerce )

**Total 11 students registered under Ph.D. Research Centre**

19. Publications:

\* a) Publication per faculty

S.N.	Name of Faculty	Books	Paper Published (Conference)
------	-----------------	-------	------------------------------





1	Dr. Arvind Shende	22	09
2	Dr. Bharat Meghe	08	12
3	Dr. Ashok Kamble	01	03
4	Mr. Anil Bhaik	--	01
5	Dr. Ninad Kashikar	--	01
6	Mr. Anant Sidana	--	03
7	Dr. Sonali Yende	04	05

\* Number of papers published in peer reviewed journals (national / international) by faculty and students

#### Dr. Arvind Shende 01

- \* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) **NIL**
- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index

#### 20. Areas of consultancy and income generated

S.N.	Name of Faculty	Type of Consultancy	Income
1	Mr. Anil Bhaik	Financial	6000
2	Dr. Ninad Kashikar	Financial	12000
3	Mr. Pranav Lakhe	Financial & Taxation	30000
<b>Total amount</b>			<b>48,000 /-</b>

#### 21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

Name of Faculty		
Dr. Arvind Shende	Member of Shodh Samiksha Aur Mulyankan	Editorial Board
	Member of research analysis evaluation	Editorial Board
Dr. Bharat Meghe	Member of All India Commerce Association	National Committee

#### 22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental/programme
- 100 % for M.Com. IV th Sem.
  - 100 % for BBA Final Year
  - 100 % for B. Com. (C.A.) Final Year.



- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

23. Awards / Recognitions received by faculty and students

Name of Faculty / Students	Awards Received
Dr. Arvind Shende	Best Teacher award ( Author) by RTM Nagpur University
Dr. Ashok Kamble	Best Teacher award ( Social worker ) by RTM Nagpur University Social Service ( for Public ) award by Sahitya Annabhau Sathe Bahujan Samaj Chetna Manch
Ms. Hemalata Gharpende	First Position in Asia Cup Thaiboxing Tittle Championship 2015-16
Ms. Apurva Kakde	National Award in All India Multi Lingual Dance and Music Competion
Mr. Deepak Matte	1 <sup>st</sup> Merit in M.Com. ( S-2013)
Ku Nikita Thantharate	5 <sup>th</sup> Merit in M.Com. ( S-2013)
Ku. Amruta Mirashe	5 <sup>th</sup> Merit in BCCA. ( S-2013)
Ku. Pooja R. Taklikar	6 <sup>th</sup> Merit in BCCA. ( S-2013)
Ku. Sonam R. Vaidya	1 <sup>st</sup> Merit in M.Com. ( S-2015)

24. List of eminent academicians and scientists / visitors to the department

S.No.	Name Of Visitor	Designation	Institution
01	CA. Ravi Mude	CA	Ravi Mude and Asso.
02	Dr. Jayalaxmi Binwar	Branch Manager	Buldhana Urban Co. Bank, Ramdaspath Br.
03	Dr. N.R. Dixit	Principal	Women's College, Nandanvan, Nagpur
04	Dr. Shriniwas Manekar	Asst. Proff.	M.P. Deo Memorial Dharampath Mv, Nagpur
05	Dr. V. G. Ukinkar	Asso. Proff.	Dhanwate Nationla College, Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding

- a) National      b) International

**NIL**

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
B.Com I	2012-13	340	340	108	232	22.69 %
	2013-14	340	340	115	225	20.24%
	2014-15	391	391	145	246	17.36%



	2015-16	379	379	114	265	23.75%
	2016-17	392	392	140	252	--
B.Com II	2012-13	215	215	76	139	19.71 %
	2013-14	292	292	80	212	20.20%
	2014-15	285	285	90	195	29.45%
	2015-16	260	260	79	181	23.07%
	2016-17	267	267	82	185	--
B.Com III	2012-13	174	174	55	119	67.24%
	2013-14	173	173	63	110	57.80%
	2014-15	237	237	64	173	57.08%
	2015-16	208	208	57	151	52.88%
	2016-17	199	199	62	137	--
BCCA I	2012-13	142	142	71	71	16.91%
	2013-14	96	96	41	55	10.00%
	2014-15	187	187	97	90	44.20%
	2015-16	101	101	45	56	36.63%
	2016-17	75	75	30	45	--
BCCA II	2012-13	105	105	40	65	48.57%
	2013-14	98	98	46	52	50.52%
	2014-15	67	67	24	43	30.30%
	2015-16	132	132	68	64	35.61%
	2016-17	75	75	20	55	--
BCCA III	2012-13	76	76	36	40	80.26%
	2013-14	95	95	44	51	82.11%
	2014-15	84	84	41	43	70.73%
	2015-16	57	57	16	41	52.63%
	2016-17	116	116	56	60	--
BBA I	2012-13	107	107	53	54	25.00%
	2013-14	120	120	51	69	25.42%
	2014-15	136	136	59	77	18.05%
	2015-16	127	127	76	51	11.40%
	2016-17	144	144	77	67	--
BBA II	2012-13	61	61	30	31	44.26%
	2013-14	110	110	50	60	58.33%
	2014-15	87	87	36	51	55.81%
	2015-16	75	75	24	51	60.00%
	2016-17	76	76	30	46	--
BBA III	2012-13	76	76	35	41	84.21%
	2013-14	79	79	46	33	92.41%
	2014-15	94	94	43	51	76.60%
	2015-16	84	84	31	53	78.57%
	2016-17	69	69	24	45	--
M.Com I (	2012-13	160	160	49	111	--
II Sem	2013-14	150	150	50	100	37.86%
II Sem	2014-15	158	158	63	95	68.02%
II Sem	2015-16	160	160	51	109	42.05%
II Sem	2016-17	159	159	54	105	--



M.Com II (	2012-13	51	51	26	25	39.22%
IV Sem	2013-14	104	104	22	82	42.86%
IV Sem	2014-15	111	111	35	76	68.27%
IV Sem	2015-16	133	133	48	85	56.82%
IV Sem	2016-17	120	120	34	86s	--

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
UG.	2012-13	99.50%	0.50 %	--
	2013-14	99.71%	0.29%	--
	2014-15	99.94%	0.06%	--
	2015-16	99.30%	0.70%	--
PG	2012-13	100%	--	--
	2013-14	100%	--	--
	2014-15	100%	--	--
	2015-16	99.66%	0.34%	--

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

29. Student progression

Student progression	Against % enrolled			
	2013-14	2014-15	2015-16	2016-17
UG to PG	52%	48%	56 %	72 %
PG to M.Phil.	7 %	7 %	7 %	7 %
PG to Ph.D.	2 %	2 %	2 %	2 %
Ph.D. to Post-Doctoral	-	-	-	-
<b>Employed</b>				
• Campus selection	02	31	25	06
• Other than campus recruitment	01	--	04	10
Entrepreneurship/Self-employment	8%	5%	7%	8%

30. Details of Infrastructural facilities

a) Library

**Departmental Library** 376

**Central Library ( College )** 5502

b) Internet facilities for Staff & Students Yes

c) Class rooms with ICT facility Yes



d) Laboratories **Yes**

31. Number of students receiving financial assistance from college, university, government or other agencies
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Programme	Name of Expert
Development of Indian Economy	Dr. Jobi George, Principal Bhivapur Mahavidyalaya, Bhivapur
Personality Development	Mr. Piyush Sharma, Area Manager, Johnson & Johnson
Cyber Crime	Mr. Amit Bhure, Expert Cyber crime Cell Nagpur City
Opportunities In Chartered Accountancy Course	CA. Kirti Agrawal, President ,WIRC Nagpur Branch
Time Management	Mrs. Uma Sharma, Divine India
Awareness of Consumer Protection Laws	Dr. Kalpana Upadhyaya, Incharge Study Circle , Grahak Panchayat Nagpur Branch
How to Compute Tax for Individual	CA. Chetan Bhandirge
Income from House Property	CA. Reena Jain
Income from Business & Profession	CA. Sagar Wazarkar, Mumbai
Scope of Auditing in Business	Dr. Jayalami Binwar

33. Teaching methods adopted to improve student learning
- Traditional Method ( Chalk & Duster )
  - ICT Tools, Smart Board
  - Power Point Presentation
  - Seminars and Quiz
  - Group Discussion
  - Internal Viva
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Banking Awareness Programme at Slum Area, Sonarzari , Nagpur
  - Participation in NSS Activities
  - Programme on Swacha Bharat Abhiyan
  - Participation in Tree Plantation Activity in College Premises
35. SWOC analysis of the department and Future plans

### Strength



- High Quality Research Work
- Qualified and dedicated Staff
- Punctual , Hard working students
- Full Capacity of Students ( Utilization Ratio )

**Weakness**

- Students from Low Income Group
- Low motivational level of Marathi Medium Students

**Opportunities**

- UGC Sponsored career oriented Program on Banking
- Recognised Reserch Laboratory ( RTM Nagpur University recognized Ph.D. centre )

**Challenges**

- To motivate the students towards research work.

**Future Plans**

- To promote more students towards competitive exams such as NET, SET, MPSC, Banking IBPS etc.
  - To Organise more activities for students for overall development
  - To promotemore students for participation in Seminar , Quiz, and other competition
- 



**English**

- Name of the department: **English**
- Year of Establishment; UG **1983**, PG **1993**
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG, PG (B.A. M.A)**
- Names of Interdisciplinary courses and the departments/units involved: **Nil**
- Annual/ semester/choice based credit system (programme wise):

Academic Year	UG	PG
2012-13	Annual pattern	Semester pattern (C.B.S)
2013-14	Annual Pattern	Semester pattern (C.B.S)
2014-15	Annual pattern	Semester pattern (C.B.S)
2015-16	Annual pattern	Semester pattern (C.B.S)
2016-17	Semester pattern introduced, BA I onwards	Semester pattern (C.B.C.S)

- Participation of the department in the courses offered by other departments: **Nil**
- Courses in collaboration with other universities, industries, foreign institutions, etc.:  
**A Certificate Course in Shakespearean Studies in collaboration with the Shakespeare Society of India, Vidarbha Chapter from 20<sup>th</sup> Sept to 27<sup>th</sup> Sept 2016**
- Details of courses/programmes discontinued (if any) with reasons: **NIL**
- Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	04	03
PG (Non Granted)	02	02 (Ad-hoc/contributory)

- Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr S.S. Jain	Ph.D	Associate Professor	English Literature	23 years	Registered-01
Dr S. Deshbhratar	Ph.D	Assistant Professor	English Literature	12 years	--



Dr S. S. Mukherjee	Ph.D	Associate Professor	English Literature	16 years	--
Mrs Kanchan	MA	Contributory Faculty	English Literature	Five years	--
Mr Humendra	MA, SET	Contributory Faculty	English Literature	Five years	--
Mr. Deepak Shende	MA	Contributory Faculty	English Literature	Five years	--
Ms Asma Khan	MA	Contributory Faculty	English Literature	One year	--

11. List of senior visiting faculty: **Nil**

12. Percentage of lectures delivered (programme wise)

By temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B. A.</b>	Nil	NA
<b>B. Com</b>	40 %	NA
<b>B. Sc.</b>	100 %	NA
<b>BCCA</b>	100 %	NA
<b>BBA</b>	100 %	NA
<b>BCA</b>	100 %	NA
<b>M. A.</b>	75 %	NA

13. Student -Teacher Ratio (programme wise)

**Undergraduate**

Academic Year	Student -Teacher Ratio
2013-14	269:1
2014-15	281:1
2015-16	277:1
2016-17	269:1

**Postgraduate**

Academic Year	Student Teacher Ratio
2013-14	16:1
2014-15	18:1
2015-16	20:1
2016-17	22:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled. **Nil**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
03	-	01	03

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**





17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: **Nil**

18. Research Centre /facility recognized by the University: **Nil**

19. Publications:

\* a) Publication per faculty (Conference Proceedings)

Name of the Faculty	No. of Publications
Dr.S.S. Jain	06
Dr. Deshbhratar	01
Dr. Mukherjee	11

\* Number of papers published in peer reviewed journals (national / International) by faculty and students

Name of the Faculty	International Journals
Dr S.S. Jain	01
Dr Mukherjee	05
Dr Deshbhratar	03

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Monographs

\* Chapter in Books

	Chapter	Name of the Book	ISBN/ISSN No and Publication
Dr Sandhya Jain	Partition and Plight of Women in 'Train to Pakistan' of Khushwant Singh	Partition, the Trauma of partitioned Lives...	ISBN No. 978-81-7192-094-5 Datta Sons Publications
	A Study of Women Characters in 'El Dorado'	Women Writers in English	ISBN No. 978-81-7192-079-2 Datta Sons Publications
Name of the Faculty	Details of Book Edited	Name of Topic	ISBN/ISSN No
Dr Sandhya Jain	Text Book of English Lit. BA IINagpur Univ. Essays of Angelo		ISBN No. 978-93-856-7629-1
Dr Subhashree Mukherjee	Three Indian Novelist	"The White Tiger: A Panorama of Indian Contemporary Society	81-8043-096-0
Dr Subhashree Mukherjee	Three Indian Novelist	"Marginality and Quest for Identity of Women in 'TheThousand	81-8043-096-0



		Faces of Night': A Textual and Inter textual Analysis."	
Dr Subhashree Mukherjee	Word and Image	"Feminist 'Whirlwind' in 'Bawandar': A critical study of feminism in the film.	978-81-7192-083-9
Dr Subhashree Mukherjee	Asian Literature in English	"Reflection of Socio-political unrest and Xenophobia in Burmese writings	978-93-82186-91-5

**Books Edited**

Dr Sandhya Jain Dr Subhashree Mukherjee	Contemporary Drama in Maharashtra: Encouraging Multiculturalism through Translation	ISBN No. 078-93-81432-55-6
Dr Sandhya Jain Dr Subhashree Mukherjee	Female Foeticide: Beyond the Horizon of Human Rights	ISBN No. 9789381432723

- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index :-
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index :-

20. Areas of consultancy and income generated: NIL

Area in which consultancy is provided	Beneficiary	Revenue Generated
Guidance for Upliftment and Up gradation of College for NAAC Accreditation and Assessment	G.B.Murarka Arts & Commerce College, Shegaon.	Rs. 10,000/-
Quality Enhancement	Annasaheb Gundewar College	Rs. 8000/-

21. Faculty as members in

- a) National committees b) International Committees c) Editorial Boards....

**Dr.S. S Jain**

- Member of Special Task Committee, RTM Nagpur University



- Member of CLIC
- Member of NUETO
- Member of Shakespeare Society of India
- Member of Jain Teachers Association

**Dr.Mukherjee**

Name of the Teacher	Reviewer / Editors	Journal
Dr Sandhya Jain	Peer Reviewer	Critical Discourse
Dr S.S. Mukherjee	Member of Editorial Board	Sahitya Anand
Dr S.S. Mukherjee	Peer Reviewer	The Horizon

## 22. Student projects -----

a) Percentage of students who have done in-house projects including inter departmental/programme

Academic Year	% of Students
2013-14	23%
2014-15	26%
2015-16	24%
2016-17	26%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies. **NA**

## 23. Recognitions received by faculty

2015-16	Dr.S.S.Jain	Appointed as a Member of special Task Committee, RTMNU
2015-2016	Dr S.S. Mukherjee	Appointed as a Member of Curriculum Designing Committee of Post Graduate Diploma in Quality Enhancement

## Achievements of the students

Academic Year	Name of the Students	Details of the award/Recognition
2013-14		
	Ms. Kavita Wanjari	1 <sup>st</sup> Prize in solo dance competition in Shardaatsav.
	Ms. Poonam Sonule	3 <sup>rd</sup> prize in Intercollegiate Debate organized in Kamla Nehru College.



2014-15	Ms. Kalyani Mishra and Ms.Mansi Parab	Ist prize in Debate competition held at G.H.National Law school, Nagpur.
	Ms. Mansi Parab	IInd prize in debate competition held at Shri.Shivaji Science College, Nagpur

## 24. List of eminent academicians /scientists / visitors to the department

2013-2014	Dr Dinesh Kumar, Associate Professor , V.G. Vaze College, Mumbai	6 <sup>th</sup> March,2013
	Mr Vikash Khurana, noted Theatre personality, Nagpur	6 <sup>th</sup> March 2013
2014-2015	Dr Supantho Bhattacharya, Associate Professor , Hislop College, Nagpur	20 <sup>th</sup> Dec,2014
	Dr Shiraskar, Principal, Annasaheb Gundewar College, Nagpur	12 <sup>th</sup> Sept 2014
2015-2016	Dr B.V. Moharil, Former Prinsipal, Dharampeth College	1 Oct. 2015
	Dr Rini Dwevedi, Associate Professor, Shivaji Science College,Nagpur	12 <sup>th</sup> Sept. 2015
2016-2017	Dr Ranjana Sharan, Asso.Professor,S.B.City College, Nagpur	11 <sup>th</sup> July, 2016
	Dr Jyoti Patil, Principal, Renuka Mhavidyalaya, Nagpur	16 <sup>th</sup> Sept 2016

## 25. Seminars/ Conferences/Workshops organized &amp; the source of funding

a) National      b) International

1	'Contemporary Drama in Maharashtra: Encouraging Multiculturalism through Translation	6 <sup>th</sup> March 2013	UGC Sponsored ( State Level)
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## 26. Student profile programme/course wise:

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	B.A. First Year	210	210	47	163	57.92%
	BA Second Year	128	128	29	99	37.27%



	BA Final Year	87	87	12	75	50.00%
2013-14	B.A. First year	205	205	80	125	51.32%
	BA Second Year	189	189	46	113	32.78%
	BA Final Year	106	106	20	86	54.17%
2014-15	B.A First year	231	231	77	154	50.82%
	BA Second Year	163	163	48	115	36.48%
	BA Final Year	149	149	34	115	55.32%
2015-16	B.A. First year	231	231	87	144	22.68%
	BA Second Year	154	154	42	112	32.41%
	BA Final Year	112	112	32	80	58.10%
2016-17	B.A. First year	236	236	89	174	---
	BA Second Year	126	126	39	87	---
	BA Final Year	106	106	31	75	---

\*M = Male \*F = Female

Academic Year	Name of the Course/program	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	MA Final year	6	6	2	4	33.33%
2013-14	MA Final year	10	10	3	7	10.00%
2014-15	MA Final year	12	12	0	12	41.66%
2015-16	MA Final year	11	11	1	10	45.45%

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
BA	2013-14	100%	-	-
	2014-15	100%	-	-
	2015-16	100%	-	-
M.A	2012-13	100%	-	-
	2014-15	100%	-	-
	2015-16	100%	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?



## 29. Student progression :

Student progression	2013-14	2014-15	2015-16	2016-17
UG to PG (Arts)	37 out of 220 ( KNM 6)	41 out of 107 ( KNM 3)	44 out of 149 (KNM 8)	50 out of 112 (KNM68)
PG to M.Phil.				
PG to Ph.D.				
Ph.D. to Post-Doctoral				
<b>Employed</b> • Campus selection • Other than campus recruitment		-	-	
Entrepreneurship/Self- employment				

## 30. Details of Infrastructural facilities

- Library: 127 books in Departmental library
- Internet facilities for Staff & Students: Yes
- Class rooms with ICT facility: Available in sharing with other depts
- Laboratories: Language Laboratory is available
- 31. Number of students receiving financial assistance from college, university,

Government or other agencies : Nil

## 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

2013-2014 Expert Lectures	Dr Dinesh Kumar, Associate Professor , V.G. Vaze College, Mumbai	6 <sup>th</sup> March,2013	Multiculturalism in Indian Drama
	Mr Vikash Khurana, noted Theatre personality, Nagpur	6 <sup>th</sup> March 2013	Drama and Human Beings
2014-2015 Expert Lectures	Dr Supantho Bhattacharya, Associate Professor , Hislop College, Nagpur	20 <sup>th</sup> Dec,2014	Career and English Language



	Dr Shiraskar, Principal, Annasaheb Gundewar College, Nagpur	12 <sup>th</sup> Sept 2014	Communication Skills in English
Workshop	Mr Nikhil Patil, Director, Nikhil Tutorials,	19 <sup>th</sup> Dec to 21 <sup>st</sup> Dec 2015	Communication Skills
2015-2016 Expert Lectures	Dr B.V. Moharil, Former Primpical, Dharampeth College	1 Oct. 2015	Elizabethan Drama
	Dr Rini Dwevedi, Associate Professor, Shivaji Science College, Nagpur	12 <sup>th</sup> Sept. 2015	Communication and English Language
Workshop	Mrs Smita Ayachit, Director, ICON Academy	13 <sup>th</sup> Jan.2016	Workshop on Personality Development
2016-2017 Expert Lectures	Dr Ranjana Sharan, Asso.Professor,S.B.City College, Nagpur	11 <sup>th</sup> July, 2016	Linguistic Proficiency and Modern Scensrio
	Dr Jyoti Patil, Principal, Renuka Mahavidyalaya	16 <sup>th</sup> Sept 2016	Relevance of Shakespeare in Modern Times

33. Teaching methods adopted to improve student learning.

- Lecture Method
- Group Discussion
- Class Seminar
- Classroom Projects
- Use of ICT tools
- Organizing Seminars, Quiz,
- Assignments etc.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Students participate in NSS, NCC.
- Visits to old age homes
- Students participation in tree plantation , blood donation programs
- Participation of students in organ donation awareness programs
- Miscellaneous form filling



## 35. SWOC analysis of the department and Future plans

**Strength of the Department:**

- Regular classes
- Qualified and efficient faculty members
- Personalised attention of the faculty members
- Healthy relationship of the teachers and students
- Use of ICT tools in teaching and learning
- Regular seminars ,workshops and other exercises

**Weak points of the Department:**

Educationally weak background of the students

**Opportunities**

Carry out collaborative activities with Shakespearean Society of India (Nagpur Chapter)

**Challenges**

To develop the attitude for research among students

To create interest for literature in the youngsters

**Future Plans**

1. To get the the Department, recognition as the research Centre.
2. To upgrade the Language Laboratory





**MARATHI**

1. Name of the department: **MARATHI**
2. Year of Establishment; UG **1983**, PG **1992-93**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG, PG. (B.A. M.A)**
4. Names of Interdisciplinary courses and the departments/units involved: **Nil**
5. Annual/ semester/choice based credit system (programme wise):

Academic Year	UG	PG
2012-13	Yearly pattern	Yearly pattern
2013-14	Yearly pattern	Semester pattern (C.B.S)
2014-15	Yearly pattern	Semester pattern (C.B.C.S)
2015-16	Yearly pattern	Semester pattern (C.B.C.S)
2016-17	Semester pattern (C.B.C.S)	Semester pattern (C.B.C.S)

6. Participation of the department in the courses offered by other departments: **NA**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **NIL**
8. Details of courses/programmes discontinued (if any) with reasons: **NIL**
9. Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	03	03
PG (Non Granted)	02	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the faculty	Qualification	Designation	No. of Years of Experience
Dr. V. D. Peshwe	Ph.D	Head & Associate Professor	23
Prof. V. T. Raut	M.Phil, NET	Associate Professor	14
Prof. D. G. Mangate	M.Phil, NET	Assistant Professor	03



Prof. D. M. Lohakre	M.A., B.Ed.	Ad-hoc lecture	10
Prof. B. Pajankar	M.A., B.Ed.	Ad-hoc lecture	10
Prof. V. Mandvekar	M.A., NET	Ad-hoc lecture	01
Dr. A. Indurkar	Ph.D.	Ad-hoc lecture	01

11. List of senior visiting faculty: **NA**
12. Percentage of lectures delivered and practical classes handled (program wise)  
By temporary faculty

Program/course	Percentage of lectures delivered	Percentage of practical classes handled
B.A	Nil	NIL
M.A.	60 %	NA

13. Student -Teacher Ratio (program wise)

**Undergraduate**

Academic Year	Student -Teacher Ratio
2013-14	323:1
2014-15	337:1
2015-16	333:1
2016-17	323:1

**Postgraduate**

Academic Year	Student Teacher Ratio
2012-13	3:1
2013-14	4:1
2014-15	5:1
2015-16	5:1
2016-17	9:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled  
**N.A.**
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
02	--	03*	02

\*Mr. Vinod Raut Submitted Ph. D. Thesis.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants



received: **Nil**

18. Research Centre /facility recognized by the University: **Nil**

19. Publications:

\* Publication per faculty (Conference Proceedings)

Name of the Faculty	Session	No. of Publications
Dr.V.D.Peshwe	2013-14	01 (State)
	2014-15	01 (national)
	2015-16	--
	2016-17	01 (National)
Prof. V.T.Raut	2013-14	02 (state)
	2014-15	01 (national)
	2015-16	04 (National)
	2016-17	01(Natiomnal)

\* Number of papers published in peer reviewed journals (national / International) by faculty and students: **Nil**

\* Chapter in Books

Name of the Faculty	Details of Book	Chapters	Publishers	ISBN/ISSN No
Dr.V.D.Peshwe	Vaidarbhiya Lokbhasha	Melghatatil Adivasi (Korku) Boliche swarup	R.B. Publication	978-81-920662-3-3

\* Books with ISBN/ISSN numbers with details of publishers

Name of the Faculty	Details of Book Edited	ISBN/ISSN No	Publication
Dr.V.D.Peshwe	Korku Lokgeet – Sanskruti ani Saundarya	978-81-7498-191-2	A.P. Publication Nagpur

20. Areas of consultancy and income generated:

**Dr. V. D. Peshwe : National Remote Sensing Centre(Indian Space Research Organisation) from 2016 to till date.**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**Dr. V. D. Peshwe:**

- Member of Vidharbha Sahitya Sangha , Nagpur.
- Member of Marathi Pradhyapak Parishad RTM Nagpur University, Nagpur.
- Member of Vidharbha Sanshodhan Mandal , Nagpur.



**Prof. V. T. Raut:**

- Member of Marathi Pradhyapak Parishad RTM Nagpur University, Nagpur
- Member of Moderation Committee RTM Nagpur University, Nagpur.

22. Student projects
- a) Percentage of students who have done in-house projects including inter departmental/program
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies.
23. Awards / Recognitions received by faculty and students

Academic Year	Name of the faculty	Details of the award/Recognition
2014 – 15	<b>Dr. V.D. Peshwe</b>	Abhivyakti Vidharbhiya Lekhika Sanshte tarfe “Swargiya Indirabai Ruikar Smriti Puraskar” (For Essay)

Academic Year	Name of the Students	Details of the award/Recognition
2012-13	Ms. Payal Putaria	Yuvarang Kavyaspardha RTM Nagpur University.
	Ms. Shraddha Shivankar	Inter collegiate Debate and Elocution Competition .
2013-14	Ms. Ashwini Vaidya	1 <sup>st</sup> Prize in “Late B. S.Pandit Memorial Essay Competition on Poem of Indira Sant” at RTM Nagpur University.
	Ms. Shraddha Shivankar	Inter collegiate Debate and Elocution Competition .
2015-16	Ms. Chetana Mirashe	3 <sup>rd</sup> prize in “Late B. S.Pandit Memorial Essay Competition on Poem of Yashwanta Manohar” at RTM Nagpur University.
2016-17	Ms. Chetana Mirashe	3 <sup>rd</sup> prize in “ Rajya Stariya Rashtriya Diwas ,Matadar Jagriti Nimbhanda Spardha.”

24. List of eminent academicians and visitors to the department: **Nil**
25. Seminars/ Conferences/Workshops organized & the source of funding
- a) National      b) International - **Nil.**



26. Student profile program/course wise:  
1. Compulsory Marathi (U.G.) (Compulsory Marathi)

Academic Year	Name of the Course/program	Applications received	Selected	Enrolled		Pass Percentage
				*M	*F	
2012-13	B.A-Ist year	210	210	47	163	84.2 %
	B.A-IIInd year	128	128	29	99	89.06 %
	B.A Final year	87	87	12	75	96.55%
2013-14	B.A-Ist year	205	205	80	125	89.9
	B.A-IIInd year	189	189	46	113	98.4
	B.A Final year	106	106	20	86	89.62%
2014-15	B.A-Ist year	231	231	77	154	77.3 %
	B.A-IIInd year	163	163	48	15	84.9 %
	B.A Final year	149	149	34	115	97.32%
2015-16	B.A-Ist year	231	231	87	114	74.46 %
	B.A-IIInd year	154	154	42	112	81.05 %
	B.A Final year	112	112	32	80	93.75%
2016-17	B.A-Ist year	263	263	89	174	--
	B.A-IIInd year	126	126	39	87	--
	B.A Final year	106	106	31	75	--

\*M = Male \*F = Female

2. Marathi Literature (U.G.)

Academic Year	Name of the Course/program	Applications received	Selected	Enrolled		Pass Percentage
				*M	*F	
2012-13	B.A-Ist year	91	91	15	76	71.55
	B.A-IIInd year	68	68	08	60	46.4 %
	B.A Final year	34	34	04	30	88.9 %
2013-14	B.A-Ist year	79	79	21	57	73.9 %
	B.A-IIInd year	75	75	15	60	61.9 %
	B.A Final year	46	46	06	40	53.6 %
2014-15	B.A-Ist year	83	83	26	57	51.43 %
	B.A-IIInd year	62	62	14	51	52.6 %
	B.A Final year	64	64	11	53	92.8 %
2015-16	B.A-Ist year	103	103	28	75	56.6 %
	B.A-IIInd year	43	43	07	36	56.3 %
	B.A Final year	42	42	11	31	58.5 %
2016-17	B.A-Ist year	103	103	28	75	--
	B.A-IIInd year	52	52	13	39	--



	B.A Final year	31	31	05	26	--
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\*M = Male \*F = Female

3. Marathi (P.G.)

Academic Year	Name of the Course/program me	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	M.A Final year	8	8	01	07	%
2013-14	M.A Final year	11	11	02	09	%
2014-15	M.A Final year	11	11	-	11	%
2015-16	M.A Final year	18	18	-	18	%

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
B.A.	2012-13	100 %	-	-
	2013-14	100 %	-	-
	2014-15	100 %	-	-
	2015-16	100 %	-	-
M.A.	2012-13	100 %	-	-
	2013-14	100 %	-	-
	2014-15	100 %	-	-
	2015-16	100 %	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

29. Student progression

Student progression	Against % Enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	17	19	15	14	21
PG to M.Phil.	2	4	-	-	-
PG to Ph.D.	1	3	1	2	1
Ph.D. to Post-Doctoral	-	-	-	-	-
<b>Employed</b> • Campus selection • Other than campus recruitment	-	-	-	-	-
Entrepreneurship/Self-employment	-	-	-	-	-

30. Details of Infrastructural facilities

➤ Library: Near about 201 Books.



- Internet facilities for Staff & Students: NIL
  - Class rooms with ICT facility: Equipped with LCD Projector and Smart board.
  - Laboratories: NIL
31. Number of students receiving financial assistance from college, university, Government or other agencies - **Nil**
32. Details on student enrichment programs (special lectures / workshops / Seminar) with external experts

EMINENT ACADEMICIANS	TOPIC	DATE
Adv. Miratai Khaddakar	Aai- Muliche Nate	8-3-2013
Prof. Sanjay Gohane	Harvat Chaleli Sahitya Samvedana	18-3-2013
Prof. Vijaya Marotkar	Pori Jara Japun	4-12-2013
Dr. Yashwant Pathak (Pune)	Sant Sahitya	11-12-2013
Dr. Alka Indapawar	Dnyaneshwarache Pasayadan	20-8-2014
Dr. Rajendra Naikwade	Marathi Bhashechi Upayogita	9-9-2015
Mr. Sanjay Nathe	Spardha Parikshanchi Tayari	10-10-2015
Prof. D. Rangari	Shudha Lekhanachi Awashyakta	16-2-2016
Adv. Smita Ayachit	Vyaktimatva Vikas	15-3-2016
Dr. Shailendra Lende	Marathicha Abhyaskram	14-9-2016
Shri. Bhujanga Bobde (Jalgaon)	Gandhi Vicharanchi Ajchya Kalat Garaj	11-8-2016
Syllabus Orientation Programme ( 1 Day)		14-9-2016

33. Teaching methods adopted to improve student learning.
- In addition to the traditional method of teaching use of ICT like Smart board is incorporated.
  - Power point Presentation.
  - Group Discussion.
  - Organizing Seminars, Poster competition.
  - Assignments etc.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Students participate in NSS, NCC.
  - Students also Participate in *Swacha Bharat Abhiyan* Campaign



## 35. SWOC analysis of the department and Future plans

**Strength** of the Department

- Large number of the students
- Approved PG staff members
- Research in different areas are carried out

**Weakness** of the Department

- Even though the number of Staff members is large but the teacher student ratio is not good.

**Opportunities for the Department**

- To be able to work with ISRO

**Challenges** before the Department

- Encouraging students to perform well in national level competitive competitions
- Involving maximum number of students in extracurricular activities

**Future Plans**

- Development of Language Laboratory
- To organize employment oriented workshops on 'Anchoring', 'Advertisement Writing', and 'news reading'.
- To conduct more Certificate Courses.





**SOCIOLOGY**

- Name of the department: **SOCIOLOGY**
- Year of Establishment; UG **1983**, PG **1992-93**
- Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.): **UG, PG. (B.A M.A.)**
- Names of Interdisciplinary courses and the departments/units involved: **NA**
- Annual/ semester/choice based credit system (programme wise):

Academic Year	UG	PG
2012-13	Yearly pattern	Yearly pattern
2013-14	Yearly pattern	Semester pattern (C.B.S)
2014-15	Yearly pattern	Semester pattern (C.B.CS)
2015-16	Semester pattern (C.B.S)	Semester pattern (C.B.CS)

- Participation of the department in the courses offered by other departments: **Nil**
- Courses in collaboration with other universities, industries, foreign institutions, etc.: **Nil**
- Details of courses/programmes discontinued (if any) with reasons: **Nil**
- Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	01	01
PG (Non Granted)	02	01

- Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the
Dr.Sucheta Parker	Ph.D	Head & Assistant Professor	Bharatiya Kutumbache Badlate Samajik Pratiman	12	NIL
Dr.Aparna Kalambe	Ph.D	Ad-hoc lecture	Nagpur jilhyatil gamin mahilanchya Sakshamikarnamadhye Swayam sahayyata gatachi bhumika.	01	NIL

- List of senior visiting faculty: **Nil**



12. Percentage of lectures delivered and practical classes handled (programme wise)  
By temporary faculty

Program/course	Percentage of lectures delivered	Percentage of practical classes handled
B.A	Nil	NIL
M.A.	87%	NA

13. Student -Teacher Ratio (programme wise)

**Undergraduate**

Academic Year	Student -Teacher Ratio
2012-13	224 :01
2013-14	264 :01
2014-15	275 :01
2015-16	254:01
2016-17	265 :01

**Postgraduate**

Academic Year	Student Teacher Ratio
2012-13	30:3
2013-14	28:3
2014-15	29:3
2015-16	29:3
2016-17	40:3

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **Nil**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Dr.S.V.Parker	Ph.D
Dr.A.Kalambe	Ph.D

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

18. Research Centre /facility recognized by the University: NA

19. Publications:

- \* a) Publication per faculty (Conference Proceedings)

Name of the Faculty	Session	No. of Publications
Dr.S.V.Parker	2012-13	02
	2013-14	01
	2014-15	05
	2015-16	01

- \* Number of papers published in peer reviewed journals (national /



International) by faculty and students

Name of the Faculty	Session	National Journals	International Journals
Dr.S.V.Parker	2014-15	-01	03
	2015-16	-01	01

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Monographs

\* Chapter in Books - **01**

Name of the Faculty	Details of Book	Chapters	Publishers	ISBN/ISSN No
Dr.S.V.Parker	Aarakshan. Magasvargiya Aarakshan v Jagtikikarnache Avhan	01	Sudhir Publication	978-93- 81621-73-8

Books Edited

- \* Citation Index :-
- \* SNIP
- \* SJR
- \* Impact factor Max.
- \* h-index :-

20. Areas of consultancy and income generated: **Nil**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**Dr.S.V Parker:**

- Member of International Journal of Social Research Foundation
- Member of Marathi Vigyan Parishad
- Member of Indian Sociological Society
- Member of NUTA

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme **In-house** projects

Academic Year	% of Students
2013-14	25 %
2014-15	25 %
2015-16	25 %

b) Percentage of students placed for projects in organizations outside the institution



i.e.in Research laboratories/Industry/ other agencies. NA

23. Awards / Recognitions received by faculty and students

Academic Year	Name of the faculty /Students	Details of the award/Recognition
2012-13	Ku.Pranali Ingle Ku.Namrata Nikam	<b>Best Paper Award ,</b> Topic-Formulation of Problem in Social Research

24. List of eminent academicians and scientists / visitors to the department

Dr,Saroj Aaglave	HOD,Sociology, Mahilamahavidyalaya ,Nagpur.	Tribal Life	21 Dec 2013
DR Ranjana Pardhi	Chairperson, ChildWelfair Committee	Bal Kalyan v Nyaya	25 jan 2013
Mrs Naina Dhawad	Social Worker	Samajik Nyaya v Vishamata	9 Dec 2014
Dr Shanil Das	HOD,Sociology, Dayanand Arya Kanya Vidyalaya	Students Suicide	22 Sept 2015
Dr Kaustubh Chatarjee	Environmentalist Founder,Green Vigil	Environmental Pollution	11 sept 2015
Ad.Madan Senad	Renoun Orater	Value Crisis In Indian Emerging Society	14 sept 2016
Eng.Varun Shriwastav	Founder,UPAY	Street Childrens Education	21sept 2016

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National--01

b) International

1	<b>UGC Sponsored National Conference 05/ 03/ 2013</b>	<b>Globalization &amp;Its Impact On The Indian Family System</b>
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26. Student profile programme/course wise:

Academic Year	Name of the Course/pro gramme	Applicati ons received (Appeare	Selec ted	Enrolled		Pass percentag e
				*M	*F	
2012-13	B. A. I	114	114	14	100	39.09%
	B. A. II	62	62	14	48	98.18
	B. A. III	45	45	03	42	95.12 %
2013-14	B. A. I	102	102	33	69	46.88%
	B. A. II	96	96	15	81	96.70%



	B. A. III	52	52	10	42	91.49 %
2014-15	B. A. I	108	108	22	86	49.49%
	B. A. II	86	86	22	64	76.83%
	B. A. III	81	81	12	69	98.55 %
2015-16	B. A. I	121	121	31	90	22.91%
	B. A. II	79	79	12	67	74.64%
	B. A. III	54	54	11	43	80 %
2016-17	B. A. I	135	135	40	95	--
	B. A. II	68	68	12	56	--
	B. A. III	62	62	13	49	--

\*M = Male \*F = Female

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	M.A Final year	16	10	02	08	62.5 %
2013-14	M.A Final year	10	03	02	01	30 %
2014-15	M.A Final year	17	12	02	10	70.58 %
2015-16	M.A Final year	24	21	03	18	87.5 %

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
B.A	2012-13	100%	NA	-
	2013-14	100%		-
	2014-15	100%		-
	2015-16	100%		-
M.A	2012-13	100%	NA	-
	2013-14	100%		-
	2014-15	100%		-
	2015-16	100%		-



28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

29. Student progression

Student progression	Against % Enrolled				
	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	05/46	05/56	04/81	06/54	05/62
PG to M.Phil.	NIL	NIL	NIL	NIL	NIL
PG to Ph.D.			01		
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL	NIL
<b>Employed</b> • Campus selection • Other than campus recruitment			- 01	- 01	01
Entrepreneurship/Self-employment			01		

30. Details of Infrastructural facilities

- Library: Yes
- Internet facilities for Staff & Students:
- Class rooms with ICT facility: Projector and Smart board.
- Laboratories

31. Number of students receiving financial assistance from college, university, Government or other agencies: **Nil**

32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

Dr, Saroj Aaglave	HOD, Sociology, Mahilamahavidyalaya, Nagpur.	Tribal Life	21 Dec 2013
DR Ranjana Pardhi	Chairperson, Child Welfare Committee	Bal Kalyan v Nyaya	25 Jan 2013
Mrs Naina Dhawad	Social Worker	Samajik Nyaya v Vishamata	9 Dec 2014
Dr Shanil Das	HOD, Sociology, Dayanand Arya Kanya Vidyalaya	Students Suicide	22 Sept 2015
Dr Kaustubh Chatarjee	Environmentalist Founder, Green Vigil	Environmental Pollution	11 sept 2015
Ad. Madan Senad	Renown Orator	Value Crisis In Indian Emerging Society	14 sept 2016
Eng. Varun Shriwastav	Founder, UPAY, Foothpathshala	Street Childrens Education	21 sept 2016

33. Teaching methods adopted to improve student learning.

➤ In addition to the traditional method of teaching use of ICT like Smart board is incorporated.

- Power point Presentation
- Educational Visits, Group Discussion, Paper Cutting.



- Organizing Seminars,
  - Assignments etc.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities
- Students participate in NSS, NCC.
  - Students also Participate in **Swacha Bharat Abhiyan** Campaign
  - Students of PG have done water analysis in Futala after Ganesh Visarjan.
  - Students Participate in **NO Crackers** campaign During Diwali Festival.
  - Students also participate To Teach Footpath Childrens.
  - MOU was signed with Green Vigil and UPAY
  - Students Participate in various Social Activities organized by UPAY organization like to celebrate **Rakshabandhan** with Footpath Children's and To Arrange **Drawing Competition** for them etc.
  - Students also distributed stationery teach Footpath Children.
35. SWOC analysis of the department and Future plans
- Strength** of the Department
- Large number of the students
  - Arranging Various Programs For Students
  - Organizing Study Tour for students like Anandvan ,Shradhanand Anathashram etc.
  - Organizing Intercollegiate Seminar for students, Poster Competition.
  - Attending various Workshop, seminar with students in other colleges
- Weakness** of the Department
- Even though the number of Staff members is large but the teacher student ratio is not good.
- Opportunities for the Department**
- To Encourage Students to Work in Society
- Challenges** for the Department
- Involving maximum number of students in higher education such as Ph.D
- Future Plans**
- Inviting more experts for talks
  - Conducting certificate course for PG students



## POLITICAL SCIENCE

1. Name of the department: **POLITICAL SCIENCE**
2. Year of Establishment; **UG 1983, PG 1992-93**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., and Integrated Masters; Integrated Ph.D., etc.): **UG, PG (B.A., M.A.)**
4. Names of Interdisciplinary courses and the departments/units involved: **NA**
5. Annual/ semester/choice based credit system (programme wise):

Academic Year	UG	PG
2012-13	Yearly pattern	Yearly pattern
2013-14	Yearly pattern	Semester pattern (C.B.S)
2014-15	Yearly pattern	Semester pattern (C.B.S)
2015-16	Yearly pattern	Semester pattern (C.B.S)
2016-17	Semester pattern (C.B.C.S)	Semester pattern (C.B.C.S) (M A I)
2017-18	Semester pattern	Semester pattern(C.B.C.S)(M A II)

6. Participation of the department in the courses offered by other departments :- **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. :- **NIL**
8. Details of courses/programmes discontinued (if any) with reasons:- **NIL**
9. Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	01	01
PG (Non Granted)	02	00
Contributory	02	02

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Prof. Sunil Adgaonkar	M Phil	Head & Associate Professor	Comparative Politics	33	NIL
Prof. Nilesh Fating	NET	Contributory	----	04	NIL





Prof.Dhage	M A	Contributory	----	01	NIL
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11. List of senior visiting faculty :-

SR. No.	Name of the Visitor	Date
1	Dr. Mohan Kashikar	2014
2	Dr. Alka Deshmukh	2014
3	Dr. Ashok Kale	2015
4	Dr. Manish Kelkar	2015
5	Dr. Ashok Kale	2016
6	Dr. Alka Deshmukh	2016
7	Prof . Uprikar	2017

12. Percentage of lectures delivered and practical classes handled (programme wise)  
By temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B. A.</b>	NIL	NA
<b>M. A.</b>	80 %	NA

13. Student -Teacher Ratio (programme wise)

**Under graduate**

Academic Year	Student -Teacher Ratio
2012-13	262: 1
2013-14	298: 1
2014-15	322: 1
2015-16	298: 1
2016-17	288: 1

**Post graduate**

Academic Year	Student Teacher Ratio
2012-13	13: 5
2013-14	27: 6
2014-15	25 : 5
2015-16	29: 5
2016-17	35: 5

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled-**Nil**
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
-	1	1	1

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**
17. Departmental projects funded by DST -FIST;UGC, DBT, ICSSR, etc.and total grants



received-**Nil**

18. Research Centre /facility recognized by the University: **Nil**

19. Publications:

a) Publication per faculty :

Name of the Faculty	Level	2012-13	2013-14	2014-15	2015-16	2016-17
Prof. Sunil Adgaonkar	National	04	02	02	01	03
	International			02		01
	State	01				

\* Number of papers published in peer reviewed journals (national / International) by faculty and students : **NIL**

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Monographs

\* **Chapter in Books**

Name of the Faculty	Details of Book	Units	Publishers	ISBN/ISSN No
	Indian Government & Politics	II	Anuradha	---

\* Books with ISBN/ISSN numbers with details of publishers

Citation Index :-

\* SNIP

\* SJR

\* Impact factor Max.

\* h-index :-

20. Areas of consultancy and income generated: **NA**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**Prof. Sunil Adgaonkar:**

1. Member of Maharashtra State Political Science & Public Administration Teachers Conference
2. Member of Nagpur University Young Teachers Association
3. Member of Mahatma Phule Shikshan Sanshtha Nag.

**Member of Local Enquiry committee -**

1. Vijay College of Arts Com. & Sci Dongargaon Nag.---15.4.2014
2. Bhiwapur Mahavidyalaya , Bhiwapur, Distrit –Nagpur -22 .12.2015
3. Marotrao Pantawne College Kandri Kanhan-,23.7.2016
4. Sheeladevi Arts ,Com & Sci College Wadi,Nagpur—25.2.2017

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme-----**Nil**



b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :- Nil

23. Awards / Recognitions received by faculty and students-----Nil

24. List of eminent academicians and scientists/visitors to the department--

1. Dr. Mohan Kashikar, Head, Dept. of Political Sci, RTMNU, Nagpur
2. Dr. Jogendra Gawai, Ex-Head, Dept. of Political Sci, RTMNU, Nagpur
3. Dr. Alka Deshmukh, Head, Dept. of Political Sci, SBCT, Nagpur
4. Dr. Sangeeta Meshram, Dean, Social Sciences, RTMNU, Nagpur
5. Dr. Ashish Lal, MIT School of govt., Pune.
6. Prof. Nitin Kelkar, MIT School of govt., Pune.
7. Dr. Ashok Kale, Principal, JM Patel College, Sakoli

25. Seminars/ Conferences/Workshops organized & the source of funding a)

National : Seminar 01, Workshop 01

b) International: - NIL

26. Student profile programme/course wise:

Academic Year	Name of the Course/pre program	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-2013	B.A.I	147	147	41	106	78%
	B.A.II	80	80	16	64	80%
	B.A.III	64	64	10	54	81%
2013-2014	B.A.I	124	124	38	86	65%
	B.A.II	92	92	24	68	90%
	B.A.III	81	81	15	66	63%
2014-2015	B.A.I	157	157	66	91	48%
	B.A.II	102	102	39	63	72%
	B.A.III	107	107	76	31	78%
2015-2016	B.A.I	167	167	78	89	50.33%
	B.A.II	96	96	33	63	73.75%
	B.A.III	74	74	27	47	71%
	B.A.I	128	128	49	79	--
	B.A.II	91	91	35	56	--
	B.A.III	69	69	26	49	--

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
UG	2012-13	100 %	--	-
	2013-14	100 %	-	-
	2014-15	100 %	-	-



	2015-16	100 %	-	-
	2016-17	100%	-	-
PG	2012-13	100 %	-	-
	2013-14	100%	-	-
	2014-15	100 %	-	-
	2015-16	100 %	-	-
	2016-17	100 %	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?.. **NIL**

29. Student progression

Student progression	Against % Enrolled			
	2013-14	2014-15	2015-16	2016-17
UG to PG	3	3	2	5
PG to M.Phil.				
PG to Ph.D.				
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
<b>Employed</b> • Campus selection • Other than campus recruitment				
Entrepreneurship/Self-employment				

30. Details of Infrastructural facilities

- Library: **Near about 46 numbers of books in Economics.**
- Internet facilities for Staff & Students:- **NA**
- Class rooms with ICT facility: **LCD Projector and Smart board.**
- Laboratories: **NA**

31. Number of students receiving financial assistance from college, university, Government or other agencies:- **NA**

32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

SR. No.	Name of the Visitor	Date
1	Dr. Mohan Kashikar	2014
2	Dr. Alka Deshmukh	2014
3	Dr. Ashok Kale	2015
4	Dr. Manish Kelkar	2015
5	Dr. Ashok Kale	2016
6	Dr. Alka Deshmukh	2016
7	Prof . Uprikar	2017

33. Teaching methods adopted to improve student learning.



- Lecture Method
- Use of ICT like Smart board.
- Power point Presentation
- Organizing Seminars,
- Quiz,
- Assignments etc.
- Group Discussions
- Viva

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Students participate in NSS, NSS Camp, NCC.
- Students participate in blood Donation Camp in College.
- Students also Participate in *Swacha Bharat Abhiyan* Campaign
- Students participate in plantation in college premises.

**Extension activities**

- **MOU of Office Grampanchayat Wabgaon**
- Quiz competition with Eco , His , Pol.

35. SWOC analysis of the department and Future plans

**Strength of the Department**

- Large number of the students
- Hard work.

**Weakness of the Department**

- Most of Students poor in Politics
- The teacher student ratio is not good.

**Opportunities for the Department**

- To Encourage Students to the competitive exam. & NET /SET exam.

**Challenges before the Department**

- Involving maximum number of students in higher Education such as MPSC
- To Encourage Students with Staff Selection Commission



**Future Plan**

- Addition of innovative ideas in teaching.
  - Organization of workshop & Certificate courses.
  - All Faculty members will be appearing for NET/SET
  - To organize Political Institution Tour.
  - To organize Educational Visit
  - To Organized Political Reaserch Work
  - To arrenge Awareness of Government Programme
- 



## Home-Economics

1. Name of the department - **Home - Economics**
2. Year of Establishment - **1983**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) - **UG**
4. Names of Interdisciplinary courses and the departments/units involved- **Nil**
5. Annual/ semester/choice based credit system (programme wise)

Acedemic Year	UG
2012-13	Yearly
2013-14	Yearly
2014-15	Yearly
2015-16	Yearly
2016-17	Semester (CBCS)

6. Participation of the department in the courses offered by other departments -**Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc- **Nil**
8. Details of courses/programmes discontinued (if any) with reasons **Nil**
9. Number of Teaching posts

Courses	Sanctioned	Filled
UG granted	01	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Prof. Mrunal R. Waliokar	MA NET & SET Additional BA in Fashion Designing	Assit. Professor	Home Management	13 years	NIL

11. List of senior visiting faculty

Sr. No	Name of Faculty	Designation	Date of Visit
1	Miss. D. Ghagargunde	Assit prof. Nabira college Katol	10 <sup>th</sup> Feb 2012
2	Dr. Smita Patterkine	HOD Heco. Dept. Rajkur Kewalramani mv. Nag.	7 <sup>th</sup> Feb 2012



3	Dr. A. Neole	HOD Heco. Dept. Nabira college Katol.	2 <sup>nd</sup> Feb 2013
4	Dr. Jayshree Pendharkar	Nutritionist	23 <sup>rd</sup> Sept. 2015
5	Dr. Rajiv Mohta	Children specialist	18 <sup>th</sup> Sept 2015
6	Mrs. Rashmi	Sheif, LG Microwave	22 <sup>nd</sup> Jan 2016
7	Dr. Anjali Bhandarkar	Counsellor	20 <sup>th</sup> Sept 2013
8	Dr. Shreebala Deshpande	HOD Heco. Porwal college Kamptee	14 <sup>th</sup> sept 2016
9	Dr. Manisha Ithape	Counsellor, Amarawati	21 <sup>th</sup> Dec. 2015
10	Dr. Sushma Deole	Nutritionist, Nirmal Health Care	27 <sup>th</sup> Aug. 2016
11	Dr. Sorte	MD. Gynec.	Dec. 2016
12	Raja Akash	Counsellor	27 <sup>th</sup> Aug. 2015

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B.A.</b>	Nil	Nil

13. Student -Teacher Ratio (programme wise)

Sr. No.	UG Academic Year	Student Teacher Ratio
1	2012-2013	86:1
2	2013-2014	96:1
3	2014-2015	100:1
4	2015-2016	102:1
5	2016-2017	93:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled -**NA**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
-	-	1*	-

\* Ph. D. Thesis Submitted

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received-

Sr NO	Project Title	Funded By	Total Grants
1	<b>A certificate Course in Child Care &amp; Nutrition</b>	UGC	7.5 lacks
2	One Minor Research project	UGC	80,000

18. Research Centre /facility recognized by the University-**Nil**





19. Publications:

\* a) Publication per faculty

S n	Name	Level	2012-13	2013-14	2014-15	2015-16	2016-17
1	Mrs M. R.Waliokar	<b>National</b>		-	1		
		<b>International</b>	-	<b>poster presentation</b>		1	
		<b>State</b>	-	-			

\* Number of papers published in peer reviewed journals (national / international) by faculty and students

Name of Faculty	Journal	Level	Year of Publication	ISSN/ISBN NO.
Mrs.Waliokar	1)Swayamsiddha Vol- 1	Peer reviewed	2012	ISSN2278-7992
	2)International Journal of Research social science &Information studies	<b>Online Open Access Peer Reviewed Journal</b>	2015	ISSN-2347-8268(online ) 2347-8209(print)
	3) Swayamsiddha Vol- 4	Peer reviewed	2015	ISSN2278-7992

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index

20. Areas of consultancy and income generated- **Nil**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.... -**Nil**



22. Student projects Percentage of students who have done in-house projects including inter departmental/programme

Sr no.	Name of students	Subject of Project	session
1	Aarti R. Uikey	Protein	2016-17
2	Ashwini Margnwar	Iron	2016-17
3	Shipra Vinchurkar	Food Processing	2016-17
4	Rina Bisen	VIT. C	2016-17
5	Deepika Kakde	Food Processing	2014-5
6	Shweta Lichade & Group	Mal- Nutrition	2014-15
7	Ravina Parse & Group	Food	2014-15
8	Monali Bwankar	Protein	2014-15

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies-**Nil**

- 23 Awards / Recognitions received by faculty and students-**Nil**

24. List of eminent academicians and scientists / visitors to the department

Sr no.	Visitors Name	Designation	Date of visit
	Dr. Anjali Bhandarkar	Counsellor	20 <sup>th</sup> Sept 2013
1	Mrs Sangeeta Jethe		17 <sup>th</sup> Oct.2013
	Raja Akash	Counsellor	27 <sup>th</sup> Aug. 2015
2	Dr. Rajiv Mohta	Children specialist	18 <sup>th</sup> Sept 2015
3	Dr.Jayshree Pendharkar	Nutritionist	23 <sup>rd</sup> Sept. 2015
4	Dr. Manisha Ithape	Counsellor, Amarawati	21 <sup>th</sup> Dec. 2015
5	Mrs. Rashmi	Sheif, LG Microwave	22 <sup>nd</sup> Jan 2016
6	Dr.Sushma Deole	Nutritionist, Nirmal Health Care	27 <sup>th</sup> Aug.2016
7	Dr. Sorte	MD. Gynec.	Dec. 2016

25. Seminars/ Conferences/Workshops organized & the source of funding

1 )	One day Syllabus Orientation programme organized by Dept. of Home-Economics	14 <sup>th</sup> September 2016	Funded by College
-----	---	---------------------------------	-------------------

- a) National      b) International

26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Academic Year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	



BA I	2012-13	51	51	-----	51	86.27
BAII		16	16	-----	16	75.00
BA III (UG)		14	14	-----	14	78.57%
BA I	2013-14	45	45	-----	45	95.50
BAII		34	34	-----	34	75.75
BA III (UG)		13	13	-----	13	89.47%
BA I	2014-15	46	46	-----	46	73.90
BAII		34	34	-----	34	97.05
BA III (UG)		20	20	-----	20	85.71%
BA I	2015-16	45	45		45	44.44
BAII		36	36		36	91.66
BA III (UG)		21	21		21	85.71
BA I	2016-17	50	50		50	--
BAII		21	21		21	--
BA III (UG)		22	22		22	--

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
BA I	100%	---	----
BAII	100%	-----	-----
BAIII	100%	-----	-----

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?-**Nil**

29. Student progression

Student progression	Against % enrolled
UG to PG	25%
PG to M.Phil.	NA
PG to Ph.D.	10%
Ph.D. to Post-Doctoral	NA
<b>Employed</b> • Campus selection • Other than campus recruitment	NA
Entrepreneurship/Self-employment	

Other than campus recruitment



Sr no.	Name of students	Workplace
1	Prachi Wadihar	Work as a telecalling at Starlite solution, Personal loan dept.PUNE
2	Pooja Charde	Work as a telecalling at Starlite solution, Personal loan dept.PUNE
3	Poonam Kanoje	Work as a telecalling at Starlite solution, Personal loan dept.PUNE
4	Pallavi Khandale	Work as a trainer of workshop for Mahila Swayamsidda training programme 2016-17 govt. of Mah.
5	Sneha Salve	Work as a teacher at sawarkar vidyalaya Nag.

30. Details of Infrastructural facilities
- Library - **75 Books**
  - Internet facilities for Staff & Students -**Nil**
  - Class rooms with ICT facility - **YES**
  - Laboratories-**1 lab**
31. Number of students receiving financial assistance from college, university, government or other agencies- **Nil**
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sr No.	Enrichment programme	Name of Expert	Total no. of participated students
1	Guest Lecturer	Dr. Rajiv Mohta	60
2	Flower making workshop	Sangeeta Jethe	35
3	Guest Lecturer on Handloom Mark	Dr. Tagde	45
4	Cake Making workshop	Sangeeta Jethe	30
5	Chinees cookery workshop	Sangeeta Jethe	22
6	Ice cream Making workshop	Meena Satija	25
7	Two days sanskar Bharti Rangoli workshop	Mrs Rashmi Manjre	41
8	Two days workshop on paper doll making	Mrs. Chanda	25
9	Workshop on Tie & Die & T-Shirt Painting	Pidilite company	45
10	LG microwae cookery show	Mrs. Rashmi	25
11	Guest lecturer on Mental Health	Dr. Manisha Ithape	60
12	Nutrition &Health	Dr. Jayshree Pendharkar	55-60
13	Meal planning of Adolescence girls	Dr. Sushma Deole	35

33. Teaching methods adopted to improve student learning  
Various teaching learning tools and methods are used by department like as-  
**ICT Tools, students seminars /presentation, Lecturer, Demonstration, visual Aids.etc**
34. Participation in Institutional Social Responsibility (ISR) and Extension activities



Sr No.	Extention Activity
1	Give the training of food preservative dishes to bachat gut womens at priyanti public school Tarodi.under twinning programme with dept. of Biotechnology & Chemistry
2	Sale of Rakhi prepared by using Bamboo
3	Visit to Vrudhashram
4	Visit to Handloom Expo
5	Visit to Shivam Food Industries
6	Visit to Anandwan Varora
7	Visit to Science Expo
8	Visit to Arogyam
9	Visit to Prety Home
10	Participated in Fete shree Shardotsav

35. SWOC analysis of the department and Future plans

#### Strengths-

- 1) Students can manage properly
- 2) Students can develop self employment
- 3) students get knowledge about the Nutrition
- 4) Students aware about Health problems occurs during development of child

#### Weakness-

- 1) Home-Economics needs more concentration & Hard work
- 2) Due to some misunderstanding about the subject that this subject is limited to cooking so many parents and students ignore this subject.

#### Opportunities –

- 1) Students can develop self employment at any fields like-Event management,
- 2) students can work as Nutritionist at any Hospitals
- 3) students can work as a counsellor
- 3) students can work as a montesory teacher

#### Challenges before the Department-



- 1) To encourage students for self employment
- 2) To motivate the students for various opportunities

**Future plans of the Department**

- 1)To develop a self employment cell for the students
  - 2)To prepare the students for Earn while Learn
  - 3)To encourage students for Higher studies
  - 4)Free guidance and counselling consultancy
  - 5) To organize a Exhibition of various products made by students
  - 6)To develop a various training courses for students
- 



## History

1. Name of the department: **History**
2. Year of Establishment: **UG 1983 PG 1993**
3. Names of Programmes/Courses offered (Masters; Integrated Ph.D., etc.)  
**UG – BA**  
**PG - MA**
4. Names of Interdisciplinary courses and the departments/units involved: **NIL**
5. Annual/semester/choice based credits system (programmewise):

Academic Year	UG	PG
2012-13	Yearly pattern	Yearly pattern
2013-14	Yearly pattern	Semester pattern (C.B.S)
2014-15	Yearly pattern	Semester pattern (C.B.CS)
2015-16	Semester pattern (C.B.S)	Semester pattern (C.B.CS)
2016-17	Semester pattern (C.B.C.S)	Semester pattern (C.B.C.S.)

6. Participation of the department in the courses offered by other departments: **NIL**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **NIL**
8. Details of courses/programmes discontinued (if any) with reasons: **NIL**
9. Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	01	01
PG (Non Granted)	02	01
Ad-hoc	01	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D./M.Phil. etc.)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Dr.A.S. Zoad	M.A. Ph.D.	Head & Assistant Professor	History of Maratha	26	NIL
Mr. K.R. Ambilduke	M.A. J.R.F/ NET SET	Assi. Professor	India Under The British Rule	04	Nil
Dr.R. Borkar	Ph.D	Ad-hoc lecture	Histography.	12	NIL

11. List of senior visiting faculty:



S.No.	Name of Visitors
1	Dr. S. Johri
2	Dr,ShyamKoreti

12. Percentage of lectures delivered and practical classes handled (programmewise) By temporary faculty

Courses	% of Lectures Delivered by Temporary Faculty	% of Practicals taken by Temporary Faculty
BA	NIL	NIL
MA	40%	NIL

Post Graduate

13. Student-Teacher Ratio (programmewise)

Undergraduate

Academic Year	Student -Teacher Ratio
2012-13	114:1
2013-14	145:1
2014-15	229:1
2015-16	202:1
2016-17	242:1

Postgraduate

Academic Year	Student Teacher Ratio
2012-13	19:3
2013-14	22:3
2014-15	42:3
2015-16	48:3
2016-17	31:3

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled: **NA**

15. Qualification of teaching faculty with DSc/D.Litt/Ph.D/MPhil/PG.

Dr.A.S. Zoad	Ph.D
Mr. K.R. Ambilduke	J.R.F.NET
Dr.R. Borkar	Ph.D

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **NIL**

17. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc. and total





grantsreceived **NIL**

18. Research Centre/facility recognized by the University: **NA**

19. Publications:

a) Publication per faculty (Conference Proceedings)

Name of the Faculty	Level	Session 2013-14	Session 2014-15	Session 2015-16
Dr.A.S. Zoad	National	02	02	02
	State	-	-	-

Number of papers published in peer reviewed journals (national International) by faculty and students

Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare International Social Sciences Directory, EBSCO host, etc.) Database-

Monographs

Chapter in Books -

Name of the Faculty	Details of Book	Chapters	Publishers	ISBN/ISSN No
Dr.A.S. Zoad	Aadhunik Bharatach a Itihas	05	P.K. Publisher	ISBN No. 978-93-82962-17-5

Books Edited

Citation Index :-

SNIP

SJR

Impact factor Max.

h-index :-

20. Areas of consultancy and income generated: **NIL**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**NIL**

22. Student projects

a) Percentage of students who have done in-house projects including interdepartmental/programme **In-house** projects **NIL**

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/ Industry/ other agencies. **NIL**

23. Awards/Recognitions received by faculty and students **NIL**

24. List of eminent academicians and scientists/visitors to the department



S.No.	Name of Faculty
1	Dr. S. Johri
2	Dr,ShyamKoreti

25. Seminars/Conferences/Workshops organized & the source of funding

a) National-- 16 Sep 2014

**Subject: Swatantrya Aandolanat Mahilanche Yogdan**

b) International : Nil

26. Student profile programme/coursewise:

Academic Year	Name of the Course/programme	Applications received (Appeared)	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	B.A First year	86	86	22	64	40.69%
	B.A Second year	32	32	11	21	59.37%
	B.A Final year	18	18	06	12	72.22%
2013-14	B.A First year	70	70	29	41	41.42 %
	B.A Second year	72	72	21	51	68.05%
	B.A Final year	31	31	10	21	70.96%
2014-15	B.A First year	98	98	41	57	35.71%
	B.A Second year	56	56	20	36	66.07%
	B.A Final year	55	55	15	40	69.09%
2015-16	B.A First year	85	85	52	33	30.58 %
	B.A Second year	62	62	26	36	53.22%
	B.A Final year	43	43	16	27	60.46%

\*M=Male \*F=Female

Academic Year	Name of the Course/programme	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	M.A Final year	04	04	01	03	62.5 %
2013-14	M.A Final year	12	12	04	08	30 %
2014-15	M.A Final year	10	10	04	06	70.58 %



2015-16	M.A Final year	26	26	04	22	87.5 %
2016-17	M.A Final year	11	11	02	09	

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
B.A	2012-13	100%	NIL	NIL
	2013-14	100%	NIL	NIL
	2014-15	100%	NIL	NIL
	2015-16	100%	NIL	NIL
M.A	2012-13	100%	NIL	NIL
	2013-14	100%	NIL	NIL
	2014-15	100%	NIL	NIL
	2015-16	100%	NIL	NIL

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? **NIL**

29. Student progression

Student progression	
UG to PG	5%
PG to M.Phil.	Nil
PG to Ph.D.	Nil
Ph.D. to Post-Doctoral	
<b>Employed</b>	Nil
• Campus selection	
• Other than campus recruitment	
Entrepreneurship/Self-employment	Nil

30. Details of Infrastructural facilities

- Library: **40**
- Internet facilities for Staff & Students: **Nil**
- Class rooms with ICT facility: Projector and Smart board. - **Yes**
- Laboratories - **Nil**

31. Number of students receiving financial assistance from college, university, Government or other agencies: **Nil**

32. Details on student enrichment programmes (special lectures/workshops/



Seminar)with external Experts

Guest Faculty	Institute	Topic	Date
Dr. S. Johri	HOD, RTM Ngpur University, Nagpur	British Trade in 18 <sup>th</sup> Century in India	January 2017
Dr,ShyamKoreti	Assistant Professor, RTM Nagpur University, Nagpur.	GondkalinItihas	August 2016
Dr. ShyamKayande.	Retired Person Pratap College, Jalgaon	Role of Women in Indian Freedom Movement	September 2015
Mr. N. C. Dixit,	Retired Person C. P. & Berar College, Nagpur	Indian History & British Ideology	December 2013

33. Teaching methods adopted to improve student learning.

- Traditional method ( Black Board, Chalk)
- Use of ICT tools
- Power point Presentation
- Seminars,
- Group Discussion
- Home Assignments etc.
- Map, Charts Preparation

34. ParticipationinInstitutionalSocialResponsibility(ISR)andExtensionactivities

- Participation in **SwachaBharat Abhiyan**Campaign
- Visit to SnehiVikasVidyalaya, Bhugaon

35. SWOCanalysisofthedepartmentandFutureplans

**Strength** of the Department

- Large number of the students
- Organization of class Seminars for students.
- Punctuality, Hard work.
- Good number of staffs

**Weakness** of the Department

- Even though the number of Staff members is good but the teacher student ratio is not good.



**Opportunities for the Department**

- To Encourage Students to Work in Historical Research

**Challenges for the Department**

- Promote maximum number of students for higher studies such as Ph.D. , NET/SET Exams
- To Encourage Students with good caliber towards History subject.

**Future Plans**

- To inculcate sense of responsibility in students towards social and ethical problems.
  - Addition of innovative ideas in teaching.
  - Organization of workshop & Certificate courses.
  - All Faculty members will be appearing for NET/SET & PET.
  - To prepare the students for competitive examinations.
- 



**ECONOMICS**

1. Name of the department : **ECONOMICS**
2. Year of Establishment : **UG 1983, PG 1992-93**
3. Names of Programmes / Courses offered : **B.A., M.A.**
4. Names of Interdisciplinary courses and the departments/units involved: **NA**
5. Annual/ semester/choice based credit system (programme wise):

Academic Year	UG	PG
2012-13	Yearly pattern	Yearly pattern
2013-14	Yearly pattern	Semester pattern (C.B.S)
2014-15	Yearly pattern	Semester pattern (C.B.S)
2015-16	Yearly pattern	Semester pattern (C.B.S)
2016-17	Semester pattern (C.B.C.S)	Semester pattern (C.B.C.S) (M A I)
2017-18	Semester pattern	Semester pattern (C.B.C.S) (M A II)

6. Participation of the department in the courses offered by other departments :- **NA**
7. Courses in collaboration with other universities, industries, foreign institutions, etc. :- **NIL**
8. Details of courses/programmes discontinued (if any) with reasons :- **NIL**
9. Number of teaching posts sanctioned

Course	Sanctioned	Filled
UG (Granted)	01	01
PG (Non Granted)	02	00
Ad-hoc/ Contributory	03	03

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name of the faculty	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students
Dr.K.A.Bhajani	Ph.D	Head & Associate Professor	Micro Economics	26	NIL
Dr.N.H.Makume	Ph.D Submitted	Ad-hoc/ Contributory	----	07	NIL
Dr.P.M.Patil	Ph.D Submitted	Ad-hoc/ Contributory	----	06	NIL
Ms.N.I.Hedau	M.A	Ad-hoc/ Contributory	----	01	NIL



11. List of senior visiting faculty:- Nil
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
B. A.	Nil	NA
M. A.	90%	NA

13. Student -Teacher Ratio (programme wise)

#### Under graduate

Academic Year	Student -Teacher Ratio
2012-13	230: 1
2013-14	299: 1
2014-15	331: 1
2015-16	316: 1
2016-17	305: 1

#### Post graduate

Academic Year	Student Teacher Ratio
2012-13	45:5
2013-14	42:5
2014-15	55:5
2015-16	48:5
2016-17	46:4

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled-NA
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
03*	-	-	01

\*Two staff mebers have submitted Ph. D. Thesis.

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL
17. Departmental projects funded by DST -FIST;UGC, DBT, ICSSR, etc.and total grants received-NA
18. Research Centre /facility recognized by the University: NA

SR. No.	Name of the Visitor	Date
1	Dr. Ramkrishana Tale	7 <sup>th</sup> Oct. 2014
2	Dr. Jyotsna Deshpande	20 Dec 2014
3	Dr. Sneha Deshpande	28 <sup>th</sup> July 2015
4	Dr. Mrunalini Fadnavis	7 <sup>th</sup> Oct 2015
5	Dr. Prdnya Bagde	14 <sup>th</sup> Sep. 2016
6	Dr. Sneha Deshpande	14 <sup>th</sup> Sep. 2016
7	Dr. Ritu Tiwari	19 <sup>th</sup> Sep. 2016



19. Publications:

\* a) Publication per faculty :

Name of the Faculty	Level	2012-13	2014-15	2015-16	2016-17
Dr. K.A.Bhajni	National	03	01	02	
	Inter National		01	01	03
	State	01			01
Dr.P.M.Patil	National			04	01
	Inter National			03	04
	State				02
Dr.N.H.Makume	National				
	Inter National				01
	State				

Number of papers published in peer reviewed journals (national / International) by faculty and students

Name of the Faculty	Session	National Journals	International Journals
Dr.K.A.Bhajni	2014-15	-	01

\* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

\* Monographs

\* Chapter in Books

Name of the Faculty	Details of Book	Units	Publishers	ISBN/ISSN No
<b>Dr.K.A.Bhajni</b>	A Text book of Economics B.A .Part I <b>This Book Recommendation of Study of Soc. Sci, RTM Nag. Uni.</b>	3½ (Micro Economics)	G C Publication	978-93-82962-11-3
	A Text book of Economics B.A .Part II	02 (Monetary Economics)	G C Publication	978-93-82962-32-8
	A Text book of Economics B.A .Part III	02 (Indian Eco,Dev &Evs Eco.)	G C Publication	978-93-82962-99-1
	A Text book of Economics B.Com I	03 (Business Economics)	G C Publication	978-93-82962-87-8
	A Text book of Economics B.Com II	03 (Monetary Economics)	G C Publication	978-93-82962-02-1
	A Text book of Economics B.A .I-- Sem I	4 (Micro Economics)	Meharbaba Publication	978-93-82962-36-6





	A Text book of Economics B.A .I-- Sem II	4 (Micro Economics)	Meharbaba Publication	978-93-82962-38-0
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\* Books with ISBN/ISSN numbers with details of publishers

Citation Index :-

- \* SNIP
- \* SJR
- \* Impact factor Max.
- \* h-index :-

20. Areas of consultancy and income generated: NA

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....

**Dr.K.A.Bhajni :**

- o Member of university Economical Association of vidharbha
- o Member of Marathi Vigyan paraishad
- o Member of Marathi Arthashatra paraishad
- o Member of Arthasanwad
- o Member of The Indian Economics Association -2015

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies :- NA

23. Awards / Recognitions received by faculty and students

Academic Year	Name of the Student	Details of the award/merit/Recognition
2014	<b>Ku. Trupti Keche</b>	M.A.(Eco) 2 <sup>nd</sup> merit
2014	Ku. Vaishali Bhoyar	M.A.(Eco) 4 <sup>th</sup> merit
2014	Ku. Pratiksha Gillurkar	M.A.(Eco) 5 <sup>th</sup> merit
2015	Ku. Sonali Donarkar	M.A.(Eco) 5 <sup>th</sup> merit
<b>2015</b>	<b>Ku. Sonali Donarkar</b>	<b>Kamgar kesari Ruikar Smarak Gold Medal</b>

Payal Putariya	B.A. III	RTM Nagpur University, Nagpur Yuvarang Poem Competition 2013	First Prize winner
Bhagyashree Kharat	B.A. I	selected Foot ball team – Chennai -2012 – 13 selected Foot ball team – Jaipur- 2013– 14 selected Foot ball team – Vishakha Pattam -2015– 16	select
Rajkumar Uekey Pallavi	B.A. II	Athletic Maharashtra 2014-15 Cross country race 2014-15	select



Pallavi Kamle	B.A. II	Yogasan] Chennai 2014-15	Select
Pallavi Khandale Rajesh Bhure	B.A. II	Gyamanastics- Punjab – Jan 2016	Select
Rajesh Bhure	B.A. I	Boxing- Koradi Nov.-2016	Select First Price
Devendra Hajare	B.A. I	2016-17 Yugal Geet Competition Kalode College Urdu Ghazal Competition LAD College Akal Sugam Sangeet DNC College Yugal Geet Competition Dyanand College Sugam Sangeet LAD College	First Prize winner Running Trophy First Prize winner First Prize winner Motivational Prize
Prit Churhe	B.A.I	2016-17 Yugal Geet Competition Kalode College Urdu Ghazal Competition LAD College Yugal Geet Competition Dyanand College	First Prize winner Running Trophy First Prize winner

## 24. List of eminent academicians and scientists / visitors to the department

SR.No.	Expert Lec.		Topic	Date
1.	Dr. Vinayak Deshpande	Director in MBA College, Nagpur	Challenges before Indian Economy	22. 08. 2013
2.	Dr. Deepak Walohkar	Director in karve Institute of soc.sci,Pune	Indian Productivity	28.09.2013/14
3.	Dr. Shreeniwas Khandewale	President Vidharbha aarthashastra parishad	Second Green Revolution	17 .07. 2014
4.	Dr. Ramkrushan Tale	Principal, khaparkheda	Welfare Economics	07.10.2014
5.	Dr. Jyotsna Deshpande	S.B.C.T. College	World Trade Organisation	20.12.2014
6.	Dr. Shneha Deshpande	Reader and professor in PGTD,Nagpur	Population & Environment	28.07.2015
7.	Dr. Mrunalini Fadnavis	Principal in MMV,Nagpur	Eco Food	07.10.2015
8.	Dr.Pradnya Bagade	HOD , Eco. Dept. PWS College	UG Syllabus	14.9. 2016
9.	Dr. Sneha Deshpande	Reader and professor in PGTD,Nagpur	PG Syllabus	14.9. 2016
10.	Dr. Sarvotam Kulkarni	Institute of research in Dev.studies,Nashik	Employment Opportunities in Soc. Sci	14.10.2016

## 25. Seminars/ Conferences/Workshops organized &amp; the source of funding

- National
- International :- NA



26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Academic Year	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
BA I	2012-13	119	119	32	87	63.72 %
BAII		60	60	21	39	72.22 %
BA III (UG)		43	43	06	37	90.24 %
BA I	2013-14	126	126	58	68	58.62 %
BAII		114	114	31	83	67.96 %
BA III (UG)		55	55	14	41	98.14 %
BA I	2014-15	151	151	62	89	59.85%
BAII		97	97	34	63	50.00%
BA III (UG)		83	83	23	60	93.75%
BA I	2015-16	142	142	59	83	30.71 %
BAII		107	107	34	73	47.52%
BA III (UG)		67	67	21	46	98.49 %
BA I	2016-17	160	160	61	99	--
BAII		74	74	26	48	--
BA III (UG)		71	71	24	47	--

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	Academic Year	% of students from Maharashtra State	% of students from Out of State	% of students from abroad
UG	2012-13	100 %	--	-
	2013-14	100 %	-	-
	2014-15	100 %	-	-
	2015-16	100 %	-	-
	2016-17	100%	-	-
PG	2012-13	100 %	-	-
	2013-14	100%	-	-
	2014-15	100 %	-	-



	2015-16	100 %	-	-
	2016-17	100 %	-	-

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Academic Year	Exams	Name of the student
2014-15	UGC -NET	Mr. Parag Gawande
2015-16	UGC -SET	Mr, Prashant Nagpure
	UGC -SET	Mr.Avinash Bhurase
	UGC -SET	Mr.Sunil Gabhane
2016-17	UGC -SET	Mr. Ankesh Shahu

29. Student progression

Student progression	Against % Enrolled			
UG to PG	30 %			
PG to M.Phil.	--			
PG to Ph.D.	05 %			
Ph.D. to Post-Doctoral	NIL	NIL	NIL	NIL
<b>Employed</b> • Campus selection • Other than campus recruitment	1		3	2
Entrepreneurship/Self-employment				

30. Details of Infrastructural facilities
- Library: **Near about 45 numbers of books in Economics.**
  - Internet facilities for Staff & Students:- **NA**
  - Class rooms with ICT facility: **LCD Projector and Smart board.**
  - Laboratories: **NA**
31. Number of students receiving financial assistance from college, university, Government or other agencies:- **NA**
32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts
33. Teaching methods adopted to improve student learning.
- Lecture Method
  - In addition to the traditional method of teaching use of ICT like Smart board.
  - Power point Presentation
  - Organizing Seminars, Quiz,



- Assignments etc.
- Group Discussions
- Viva

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- Students participate in NSS, NSS Camp, NCC.
  - Students participate in blood Donation Camp in College.
  - Students also Participate in *Swacha Bharat Abhiyan* Campaign
  - Students participate in plantation in college premises.
- Extension activities**
- Economics Department in Collaboration with Commerce department has organized Guest lecturer for Career Opportunities in field of Arts & Commerce.
  - Economics Department in Collaboration with Maths department has organized workshop on statistics.
  - MOU was signed with SPARK.
  - MOU was signed KNM College with PWS College, DNC College, DIK College, JNC College.
  - Economics Department student's visit to Oriental bank of commerce.
  - Free check camp in Manav vihar, kamtee.

35. SWOC analysis of the department and Future plans

**Strength of the Department**

- Large number of the students
- Punctuality, Hard work.

**Weakness of the Department**

- The teacher student ratio is not good.

**Opportunities for the Department**

- Working with SPARK and preparing students for competitive exam.

**Challenges before the Department**

- Involving maximum number of students in higher Education such as Ph.D
- To Encourage Students with good caliber towards Economics subject.

**Future Plan**

- Organization of workshop & Certificate courses.



- All Faculty members will be appearing for NET/SET & PET.
  - To prepare the students for competitive examinations.
  - Counseling of students for higher studies and getting employment.
  - To Organize Intercollegiate Poster Competition, Quiz , Seminars for students.
  - To organize Industrial Study Tour.
- 



**Music**

1. Name of the department- **Music**
2. Year of Establishment- **2005**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)- **UG (B.A.)**
4. Names of Interdisciplinary courses and the departments/units involved-**Nil**
5. Annual/ semester/choice based credit system (programme wise)

YEAR	COURSE	PROGRAMME WISE
2013-2014	B.A. I	Annual
2014-2015	B.A. I	Annual
2015-2016	B.A. I	Annual
2016-2017	B.A. I	Semester

6. Participation of the department in the courses offered by other departments-
7. Courses in collaboration with other universities, industries, foreign institutions, etc.-**Nil**
8. Details of courses/programmes discontinued (if any) with reasons-**Nil**
9. Number of Teaching posts

	Sanctioned	Filled
Professors		
Associate Professors		
Asst. Professors	01	01

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
Priti Mahajan	M.A.(Music) B.Ed, SVisharat	Ad-Hoc Lect.	Classical Music	8 Years	



## 11. List of senior visiting faculty

YEAR	SENIOR	SUBJECT
2015-2016	Dr. Sadhna Shiledar	Sangeetanand
2016-2017	1. Mr. Ravi Sathphale 2. Prof. Shipra Sarkar	Job Orientation Programme Kanthsadhana

## 12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B. A.</b>	100 %	100 %

## 13. Student -Teacher Ratio (programme wise)

YEAR	STAFF	STUDENT	RATIO (Teacher:Student)
2013-2014	1	44	1:44
2014-2015	1	37	1:37
2015-2016	1	40	1:40
2016-2017	1	41	1:41

## 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled- Nil

## 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
-	-	-	1

## 16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received-NA

## 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received-NA

## 18. Research Centre /facility recognized by the University-NA

## 19. Publications:

- \* a) Publication per faculty-NA
- \* Number of papers published in peer reviewed journals (national / international) by faculty and students-NA
  - \* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)-NA
  - \* Monographs-NA
  - \* Chapter in Books-NA
  - \* Books Edited-NA
  - \* Books with ISBN/ISSN numbers with details of publishers-NA
  - \* Citation Index-NA





- \* SNIP-
- \* SJR-
- \* Impact factor-
- \* h-index-

20. Areas of consultancy and income generated-NA

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards....-Nil

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme

Year	Class	Percentage	Subject
2016-2017	B.A. I Sem.I	100%	Autobiography
2016-2017	B.A. I Sem. II	73%	Rag samay

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies

23. Awards / Recognitions received by faculty and students

YEAR	NAME	TYPE	COMPETITION LEVEL	RANK
2013-2014	Bhavna Choudhry	Singing	Intercollegiate	Third
2014-2015	Shraddha Yadav (Ex.Stu)	Singing	1.Association of Indian University(Odisha)	Participation
		Group song	2.Association of Indian University(Indore)	Third
			3.NSS, Govt. of Mah. And Dr.BR Ambedkar University (Aurangabad) State level	First
2015-2016	1.Shubham Shourya	Singing	12 <sup>th</sup> Bahubhashi Natya Mahotsav.	Best Singer
	2.Rushikesh Lakhe	Flute	Intercollegiate	Second
2016-2017	1.Preet Churhe and Devendra Hazare	Duet singing	Intercollegiate (Kalode mahavidyalaya)	First
	2.Devendra Hazare	Ghazal singing	L.A.D College	Running trophy
	3.Devendra Hazare	Geet gayan	DNC	First
	4.Preet	Duet singing	Dayanand arya kanya	First



2016-2017	Churhe and Devendra Hazare 5.Rishikesh Lakhe	1.Flute	college	1.Vidarbha stariya yuva mahotsav 2.Zilla stariya yuva mahotsav 3.Rajya stariya yuva mahotsav 4.Association of Indian University(New Delhi) 5.21 <sup>st</sup> National youth festival (Haryana)	First First Second Third
	Devendra Hazare	2.Folk orchestra	LAD College	Participated	
		Light Music			

YEAR	NAME OF FACULTY	TYPE	
2015-2016	Mrs.Priti Mahajan	Best Guru	12 <sup>th</sup> Bahubhashi Natya Mahotsav (Organised by Kala Sagar)

24. List of eminent academicians and scientists / visitors to the department-
25. Seminars/ Conferences/Workshops organized & the source of funding :Nil  
a) National b) International
26. Student profile programme/course wise:

YEAR	Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
				*M	*F	
2012-13	B.A. I	14	14	05	09	92.85 %
	B.A. II	06	06	-	06	100 %
	B.A. III	07	07	1	06	85.71 %
2013-14	B.A. I	24	24	10	14	45.83 %
	B.A. II	13	13	05	08	100 %
	B.A. III	07	07	-	07	85.71 %



2014-15	B.A. I	15	15	03	12	80.60 %
	B.A. II	13	13	02	11	53.84 %
	B.A. III	09	09	03	06	77.77 %
2015-16	B.A. I	21	21	03	18	61.90 %
	B.A. II	08	08	01	07	87.50 %
	B.A. III	11	11	02	09	81.81 %
2016-17	B.A. I	23	23	09	14	--
	B.A. II	11	11	02	09	--
	B.A. III	06	06	01	05	--

\*M = Male \*F = Female

27. Diversity of Students

YEAR	Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
2013-2014	UG	100%	-	-
2014-2015	UG	100%	-	-
2015-2016	UG	100%	-	-
2016-2017	UG	100%	-	-
	I			

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? -

29. Student progression

Student progression	Against % enrolled
UG to PG	50 %
PG to M.Phil.	--
PG to Ph.D.	10 %
Ph.D. to Post-Doctoral	--
<b>Employed</b> • Campus selection • Other than campus recruitment	--
Entrepreneurship/Self-employment	20 %



30. Details of Infrastructural facilities
- Library- 35 books
  - Internet facilities for Staff & Students- nil
  - Class rooms with ICT facility-nil
  - Laboratories-nil
31. Number of students receiving financial assistance from college, university, government or other agencies-nil
32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

YEAR	SENIOR	SUBJECT
2015-2016	Dr. Sadhna Shiledar	Sangeetanand
2016-2017	1. Mr. Ravi Sathphale 2. Prof. Shipra Sarkar	Job Orientation Programme Kantsadhana

33. Teaching methods adopted to improve student learning
34. Participation in Institutional Social Responsibility (ISR) and Extension activities

YEAR	ORGANISATION	SOCIAL WORK
2013	Ramabai Ambedkar Mahanagar Palika, Kamal Chowk, Nagpur	Andh va matimandh mulansathi sanskar shibiramadhe sangeetache prashikshan.
2013	Gram Panchayat, Bela	Bela gavatil mahilansathi bhajanache prashikshan.
2015-2016	Smt. Meerabai Sancheti, Dharampeth Girls Highschool, Nagpur	Shaleya band pathak tayar karyasaathi vadyache prashikshan dile.
2015-2016	BJP	Shibaritil vidyarthyan sanskar geetache prashikshan.
2016-2017	Samyak Youth Foundation	Garib va foothpathvaril mulanna balgeetanche prashikshan.
2016-2017	Orgnsied by Sadguru Nagar mitra pariwar	Diwali pahat and padwa pahat for common people.
2016-2017	The Pentecostal Mission	Church madhe 5 varshyapasana table vadan va gayanache karya vinamulya.
2016-2017	Gospel Ministry Charitable Trust	6 mahinyanpasun tripleow dholak vadan.

35. SWOC analysis of the department and Future plans

#### Strengths

- Training blind as well as other differently abled children in Sanskar Shibir
- Training in singing of bhajans to women of Bela village.
- Training students in devotional songs
- Training foothpath and deprived children in children songs.



- Organizing PAHAT PHERIS during festivals.
- Free of cost training in music to people in the church
- Imparting free of cost training to school band

**Weakness:**

- Absence of regular faculty

**Opportunities:**

- To work with several social groups

**Challenges:**

- Few career opportunities for students

**Future plans**

- To organize national conference
- To organize 'Sangeet Samaroh'.



**MBA**

1. Name of the department :- **MBA ( Master of Business Administration)**
2. Year of Establishment :- **2008**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :- **2 year full time MBA ( Master of Business Administration) course**
4. Names of Interdisciplinary courses and the departments/units involved - **MBA , BBA, B.VOC ( Retail Management)Course**
5. Annual/ semester/choice based credit system (programme wise):-  
**MBA:** Semester Pattern  
**BBA:** Semester Pattern  
**B.VOC:** Semester Pattern
6. Participation of the department in the courses offered by other departments -  
  1. Self Governance Day - 10<sup>th</sup> October 2015
  2. Seminar on YOU & YOUR CAREER “Marketing a Brand called YOU”  
Date- 17-01-2013 .
  3. Syllabus Orientation Program organized on 06<sup>th</sup> Sept 2016
7. Courses in collaboration with other universities, industries, foreign institutions, etc. - Nil
8. Details of courses/programmes discontinued (if any) with reasons - Nil
9. Number of Teaching posts

	<b>Sanctioned</b>	<b>Filled</b>
Professors	Nil	Nil
Associate	2	Nil
Asst. Professors	6	4

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)



Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the
Mr. Nitin Shrigiriwar	M.Sc( Electronics), MBA( Marketing)	Asstt. Professor	Marketing	11 years in teaching + 4 years corporate	NIL
Mrs. Neha Wasalwar	B.Sc. (PHY, Ele, Maths), MBA	Asstt. Professor	HRM and Marketing	8 yrs in teaching + 2 yrs	NIL
Mrs. Vishakha Hade	B.Tech (Cosmetic), MBA, Dip. Advt.&PR	Asstt. Professor	HRM and Marketing	8 yrs in teaching + 2 yrs corporate	NIL
Mr. Chaitanya Sakhare	M.Com, M.phil, DBM, MBA	Asstt. Professor	Marketing and Finance	8 yrs in teaching	NIL

11. List of senior visiting faculty - **Nil**

12. Percentage of lectures delivered and practical classes handled(programme wise) by temporary faculty - **Nil**

13. Student -Teacher Ratio (programme wise) –

Batch	Student –teacher ratio
2012-13	15:1
2013-14	20:1
2014-15	20:1
2015-16	20:1

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled- **13**

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG. –

Ph.D	MPhil	NET/SET	PG
03*	01	01	04

\*Ph. D. Thesis submitted to RTMNU, Nagpur

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received - **Nil**

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received - **Nil**

18. Research Centre /facility recognized by the University - **Nil**

19. Publications:



- \* a) Publication per faculty -
- \* Number of papers published in peer reviewed journals (national / international) by faculty and students – **4**
- National Conference – **13**
- International conference – **14**
- Article Journals - **03**
- Books – **02**

Sr.No	Name of Faculty	No. Of Research Papers Presented In Conferences		Articles in Journals /conference proceedings	Books Published
		National	International		
1	Dr. Rajesh W. Vaidya	6	3	3	2
2	Prof.Nitin D. Shrigiriwar	3	4	-	-
3	Prof. Vishakha Hade	2	1	-	-
4	Prof. Neha Wasalwar	-	1	-	-
5	Prof. Chaitanya Sakhare	2	5	-	-
	<b>TOTAL</b>	<b>13</b>	<b>14</b>	<b>3</b>	<b>2</b>

- \* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

- \* Monographs
- \* Chapter in Books
- \* Books Edited
- \* Books with ISBN/ISSN numbers with details of publishers
- \* Citation Index
- \* SNIP
- \* SJR
- \* Impact factor
- \* h-index





20. Areas of consultancy and income generated –

**Department has provided consultancy for Two- wheeler clutch cable, brake cable manufacturing unit for the time period of 6 month (10<sup>th</sup> Aug 2016-20 the Feb 2017) related to:**

**Market Potential ,Process of Manufacturing, Production Capacity, Quality Control & Standards,Pollution Control**

**Income generated – Rs.10.000**

21. Faculty as members in

a) National committees b) International Committees c) Editorial Boards.... - Nil

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental/programme - 88%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies – 20%

23. Awards / Recognitions received by faculty and students –

Sr. No.	Student Name	Activity	Date	College Name	Prize
1.	Savita Sahu	Fashion Show	2015	Kamla Nehru Mahavidyalaya	1 <sup>st</sup>
2.	Swapnil Gaidhani	ALL INDIA BUSINESS PLAN COMPETITION	2016	IIM-CALCUTTA	4th

24. List of eminent academicians and scientists / visitors to the department-

1. Dr. Vinayak Deshpande – Ex Vice Chancellor , RTM Nagpur University, Nagpur

2. Dr. Yogesh Deshpande, Humanities Dept. VNIT, Nagpur

3. Dr. Sujit Metre, Director,MBA Dept. Dr. Ambedkar Institute Of Management & Technology, Nagpur

25. Seminars/ Conferences/Workshops organized & the source of funding a)

National - Nil

b) International - Nil



26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
MBA – 2012-13 -1 <sup>st</sup> year	60	60	34	26	49
2 <sup>nd</sup> year	60	59	14	45	24
MBA – 2013-14 – 1 <sup>st</sup> year	60	60	34	26	38.33
2 <sup>nd</sup> year	60	54	17	37	90
MBA – 2014-15 – 1 <sup>st</sup> year	60	59	23	36	27.6
2 <sup>nd</sup> year	60	43	18	25	67.44
MBA 2015-16 -1 <sup>st</sup> year	60	56	21	35	47
2 <sup>nd</sup> year	60	40	15	25	87.5
MBA 2016-17– 1 <sup>st</sup> year	60	53	21	32	33.3 %
2 <sup>nd</sup> year	60	43	13	30	17.5

\*M = Male \*F = Female

27. Diversity of Students

Name of the Course	% of students from the same state	% of students from States other	% of students from abroad
MBA	95%	5%	Nil

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?- 2

29. Student progression

UG to PG	40%
PG to M.Phil.	1%
PG to Ph.D.	1%
Ph.D. to Post-Doctoral	Nil
<b>Employed</b>	
• Campus selection	26%
• Other than campus recruitment	15%



Entrepreneurship/Self-employment	1%
----------------------------------	----

30. Details of Infrastructural facilities

a) Library-Total Books – **4223**

National Journal -**17**

International Journal – **08**

News Paper - **10**

b) Internet facilities for Staff & Students- **Available**

c) Class rooms with ICT facility- **2 class rooms**

d) Laboratories- **NA**

31. Number of students receiving financial assistance from college, university, government or other agencies-**Nil**

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts-

Industry Institute Interface-(GUEST LECTURES)				
Sr. No	Topic	Guest Speaker	No. of students attended	Feedba ck
1	Role of Aptitude in Management	Mr.Milind Apte	100	Good
2	Seminar on Banking	Mr. Rishi Chaurasiya	90	Good
3	Seminar on Cyber Security	Dr. Ronald De'costa	70	Good
4	SEBI Sponsored Seminar on Financial Education	Prof. Kanchan Naidu	75	Good
5	Seminar on Goal Setting	Dr. Sanjay Raghtate	80	Good
6	Seminar on Soft Skills	Miss. Pooja Dharangoankar	110	Good
7	Seminar on Aptitude Development		110	Good
8	Seminar on Presentation skills	Mr. Prashant Joshi	80	Good
9	Seminar on Self Analysis	Mr. Surendra Gole	75	Good
10	BSE Sponsored seminar on MSME in association with WRC-ICSI (Institute of Company Secretary)	Ex-General Manager Punjab National Bank	90	Good
11	SEBI sponsored Seminar on Financial Education	Mr. Vijay Asrani	65	Good
12	“English Made Easy”	C.R Choudhary	70	Good



13	Expectation Management and how to prepare for getting a good Placements.	Mr. Rajendra Chandorkar	80	Good
14	Seminar on Goal setting	Mr. Ashish Sharma	90	Good
15	Seminar on Budget Analysis-2015	Mr. Rishi Chaurasiya	75	Good
16	Seminar on Goal Setting	Dr. Nitin Vighne	80	Good
17	Why MBA? Industry Expectations From MBA's, Skill set required for a successful management career Speaker	Dr. Yogesh Deshpande (Humanities Dept. VNIT, Nagpur)	90	Excellent
18	Improving English Speaking & Writing Skills	Mr. Siddharth Azmi	40	Fair
19	Economic aspects of Budget	Dr. Sujit Metre	45	Good

	Name of the Industry	Location	Learning objective
2008	Parle Products Ltd	Nagpur	To have interaction with department heads as well as to make familiar with production process and quality systems adopted.
2009	Amul Ltd.	Nagpur	
2009	UB Group	Goa	
2010	Escort Production Plant	Faridabad	
2012-Feb	New- Holland Tractors	Noida	
2012-Oct	Parle Products Ltd	Nagpur	
2013	Himatsingka Seide Ltd.	Bangalore-Mysore	
2014	Khaitan Electricals Ltd.	Delhi	
2015	IIM- Ahemdabad & AMUL Dairy	Ahemdabad	
2016	UB Group	Goa	
2017	<ul style="list-style-type: none"> <li>• VENUS PAINTS,</li> <li>• Happy valley Tea production Plant,</li> </ul>	<ul style="list-style-type: none"> <li>• Kolkatta</li> <li>• Darjiling</li> </ul>	

33. Teaching methods adopted to improve student learning-



1. Use of case studies to clear the concept
  2. Use of PPT presentation while teaching.
  3. Use of role plays , Skit activities .
  4. Conduct regular group discussion on contents of subjects.
34. Participation in Institutional Social Responsibility (ISR) and Extension activities-
1. Personal Interview workshop conducted for students
  2. Personality development workshop conducted for students
  3. Awareness program on traffic rules for citizens of Nagpur.
  4. Awareness program organized on use digital payment system
  5. Promotional activity to promote use of paper bags instead of plastic bags to save environment.
35. SWOC analysis of the department and Future plans
1. Strength –
    - Modern infrastructure with all facilities.
    - Experienced Faculties.
    - Library with computerized OPAC facilities with more than 4000 books and more than 17 national journal ,8 international journal and all leading news paper
    - Placement enhancement program conducted regularly for students.
    - ICT based teaching methodology
  2. Weakness-
    - Need to conduct conference and seminar
    - Need to conduct corporate social responsibility programme
  3. Opportunities –
    - Need to start short term certification programme
  4. Challenges –
    - Focus on enhancement of branding of institute



**Future plans**

- Thrust on Live projects
- Activity Based Learning .
- Industry Oriented Research and Consultancy Projects.
- More focus on Industry-Institute Interface.
- Enhanced focus on developing employability skill of students
- Focus on enhancement of branding of Institute.



## Department Of Library Science

1. Name of the department: **Department Of Library Science**
2. Year of Establishment: **B.Lib -2000, M.LiSc -2001**
3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) :**B.Lib,M. L.I.Sc.**
4. Names of Interdisciplinary courses and the departments/units involved:  
**Nil**
5. Annual/ semester/choice based credit system (programme wise):

B.Lib.	Semester CBS
M.LI Sc.	Semester CBCS

6. Participation of the department in the courses offered by other departments -**Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **Nil**
8. Details of courses/programmes discontinued (if any) with reasons
9. Number of Teaching posts

	Sanctioned	Filled
Professors		
Associate Professors		
Asst. Professors	03	02

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph.D. Students guided for the last 4 years
S.R.Inamdar	B.Sc. B.A. M.L.I.Sc ,SET	Librarian		02	-
Hemlata Duke	M.A.M.LiSc	Asist.Professor		06	-
Sonali Bhoyar	B,Sc.M.L.iSc.	Asist.Professor		02	-

11. List of senior visiting faculty : **Nil**
12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty –



Programme	Percentage of Lectures delivered by Temporary faculty	Percentage of Practical Classes handled by Temporary faculty
<b>B.Lib</b>	100%	100%
<b>MLiSc</b>	100%	100%

13. Student -Teacher Ratio (programme wise) **B.Lib – 3:1 M.LiSc.3:1**
14. Number of academic support staff (technical) and administrative staff; sanctioned and filled : **Sanctioned: 03 ,Filled : 02**
15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

Ph.D	MPhil	NET/SET	PG
--	--	01	02

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: **Nil**
17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received - **Nil**
18. Research Centre /facility recognized by the University -**Nil**
19. Publications:
- \* a) Publication per faculty: S.R. Inamdar -**04**
  - \* Number of papers published in peer reviewed journals (national / international) by faculty and students: S.R. Inamdar :01
  - \* Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
  - \* Monographs
  - Chapter in Books
  - Books Edited
  - Books with ISBN/ISSN numbers with details of publishers
  - \* Citation Index
  - \* SNIP
  - \* SJR
  - \* Impact factor
  - \* h-index
20. Areas of consultancy and income generated
21. Faculty as members in
- a) National committees b) International Committees c) Editorial Boards.....: **Nil**
22. Student projects





- a) Percentage of students who have done in-house projects including inter departmental/programme – **MliSc. II students 100%**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/ other agencies-**Nil**
23. Awards / Recognitions received by faculty and students –  
**1 Meenal Bandeduche-University topper B.Lib.2014-15**  
**2 Harsha Vairagade - University 2<sup>nd</sup> topper M.Li Sc. 2014-15**  
**3 Vilas Kamble - University 2<sup>nd</sup> topper M.Li Sc. 2014-15**
24. List of eminent academicians and scientists / visitors to the department –  
**Dr. Mangala Hirwade ,HOD ,RtMNU Department of Library & Information Science.**
25. Seminars/ Conferences/Workshops organized & the source of funding a)  
**National 01 : Modern Management techniques for libraries in IT era**  
**2013: UGC Funding**  
 b) International- **Nil**
26. Student profile programme/course wise:

Name of the Course/programme (refer question no. 4)	Applications received	Selected	Enrolled		Pass percentage
			*M	*F	
<b>2012-13</b>					
B.Lib.	05	05	01	04	20%
M.LiSc.I	11	11	01	10	82%
M.LiSc.II	13	13	00	13	23%
<b>2013-14</b>					
B.Lib.	04	04	01	03	25%
M.LiSc.II	10	10	01	09	60%
<b>2014-15</b>					
M.LiSc. I	03	03	00	03	67%
M.Li Sc.II	04	04	00	04	75%
<b>2015-16</b>					
M.LiSc. I	05	05	00	05	40%
M.Li Sc.II	06	06	01	05	83.33

\*M = Male \*F = Female



## 27. Diversity of Students

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
B.Lib.	100%	-	-
M.LiSc	100%	-	-

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

**01- Mr. Sachin Badwaik- 2016**

## 29. Student progression

Student progression	Against % enrolled
UG to PG	20% ,
PG to M.Phil.	--
PG to Ph.D.	20 %
Ph.D. to Post-Doctoral	--
<b>Employed</b> <ul style="list-style-type: none"> <li>• Campus selection</li> <li>• Other than campus recruitment</li> </ul>	80%
Entrepreneurship/Self-employment	--

## 30. Details of Infrastructural facilities

- a) Library – **250** Books Library Sc.
- b) Internet facilities for Staff & Students –**facility available with 10 computers**
- c) Class rooms with ICT facility: **Yes, On sharing basis**
- d) Laboratories-**NA**

31. Number of students receiving financial assistance from college, university, government or other agencies:**Nil**32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts: **Nil**

## 33. Teaching methods adopted to improve student learning

**1 Use of ICT tools, sharing of internet resources, online material**

## 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

- **BRAIN activity for students nearby areas.**



- Prepared study circles for reading in nearby areas.

35. SWOC analysis of the department and Future plans

**Strengths**

1. Post graduate course.
2. Interdisciplinary academic activities (study circle).

**Weakness**

Lack of awareness regarding the subject leading to less number of students enrollment.

**Challenges**

To increase number of students

**Future Plans**

- Purchasing new app ATCOVIN for the parent-teacher interaction.
- Conducting subject awareness program in nearby areas.



## POST ACCREDITATION INITIATIVES

### 1. Skill development initiatives:

The college has taken special efforts to equip students with skills required in view of global employment market. In continuation with implementation of **UGCCareer Oriented Program**, 03 new courses have been introduced. **B.Voc. in Retail Management and Software Development has been started.** Similarly, various departments have started skill based Certificate Courses to increase the employability of the students. Besides the Training and Placement Division of the college has organized several collaborative training programs with the renowned Industrial groups like **Tata** as well as International bodies like **Jaycees and Rotary** and Nationally reputed institutes like **IIM Kolkatta**.

### 2. Enhancement in Quality Assurance Initiatives:

Academic and administrative audits have been introduced and carried out regularly. Academic Calendars have been prepared every year for meticulous planning of curriculum delivery and other activities of the college. To increase the effectiveness of overall functioning, IQAC has initiated Academic & Administrative Audit (AAA) both at Internal as well as External levels. National level NAAC sponsored Seminar on the topic '**NAAC Re Assessment: A Time for Institutional Introspection**' has been conducted by IQAC to boost the general quality improvement processes. IQAC and the RAC has contributed to proposals sent for various grants through funding agencies such as UGC, DST, CSIR, DBT, BRNS, RUSA, SERB, ICSSR, etc. Feedbacks have been taken by IQAC for 100% courses every year. The feedbacks have been analysed and communicated to the respective teachers.

### 3. Effort for improved Research Outputs

100% research affinity has been shown by all the faculty members. Several research proposals have been sent to National level bodies for funding. Research especially for students has been provided a huge lift post-accreditation. More than **1196** student research projects were carried out and an amount of **2,60,164/-** was utilized for these projects.



Filing of patents has been promoted. The college has availed grants for various research activities through **DST, UGC, SERB, CSIR**. The college has received financial assistance for **42,96,858/- Research Projects**. Out of these, there are 09 Minor Research Projects and 03 Major projects have been completed.

#### **4. Strengthening of Library**

The Central Library has been upgraded with increased number of books, e-resources, journals, etc. There are **40,023** number of books and **96** journals as compared to **27528** books and **76** Journals in the previous cycle. Besides, an E-Zone has been set up in the Library through which students access on line study material. Apart from this the following initiatives have been undertaken:-

- NET/SET training Programme.
- Motivated students and teachers for e-learning through MOOCs.
- Introduction to CAS (Current Awareness Service) and SDI (Selective Dissemination of Information) through Library.

#### **5. Developments in ICT enabled facilities**

To promote use of ICT, the college has redesigned its website, launched M-OPAC, in library along with subscription to NLIST INFLIBNET. The college has outsourced the work of Web Designing to Somani Associates and it is now a dynamic website as compared to the one in the previous cycle. As compared to only 06 LCD projectors, the number of LCD projectors has doubled to **12** in the post re-accreditation period. Wi-Fi hotspots have been increased. For the purpose of the security, the college has installed CCTV cameras in greater numbers. Old software and versions have been replaced by the upgraded ones.

#### **6. Increase Consultancy/ Collaboration/Linkages**

The institution has increased its academic, social as well as industrial linkage and collaborative activities to a great extent in the post accreditation period. The following are the details of the Linkages developed in this period:-

- Linkage with and **Membership of Asia Pacific Quality Network (APQN)**
- Linkage with **Central Institute of Cotton Research (CICR)** for all Life Science
- Linkage with **Society for Promotion of Material Science**.
- Linkage with **National Chemical Laboratory**.
- Linkage with **VNIT Nagpur**.



The following are the details of the Collaborations and MoUs developed in this period:-

- Collaboration with University of Huddersfield (UK) for various academic and research oriented activities.
- Collaboration with Institute of Chartered Accountants of India (ICAI)
- Collaboration with IIM Kolkatta (Carpedium) in developing college as Zonal Training Centre.
- Collaboration with Jaycees for various social and outreach activities.
- Collaboration for environmental awareness with Green Vigil.
- Collaboration with Big Bazaar.
- Collaboration with Nutracare Pharmaceuticals
- Collaboration with Pulse System for the department of Computer Science.
- Collaboration with Master Software for the department of Computer Science.
- Collaboration with Globus for retail management.
- Collaboration with VIVIMED Lab., for department of Cosmetic Technology.
- Collaboration with Unique India Automative pvt. Ltd
- Collaboration with Hotel Centre Point for the department of MBA.
- Collaboration with Jaika Motors for Vocational Course.

Consultancy Services have been increased and details are as under:-

Sr. No	Name of the industry/institute/individual	Equipments Used / Department	Amount Received
1.	Microtron Systems	PCB Designing Software	26,000/-
2.	Ketki Misar	Anti Microbial testing	6,750/-
3	Govt Ayurvedic College	Extraction of Herbs and formulation of cosmetic Product	7,000/-
4	Scholars and Project student	PL and TL characterization	15,600/-
5	Scholars and Project students	FTIR & UV- visible	14,800/-
6	G B Murarka Arts & Commerce College Shegaon	Consultancy for upliftment and upgradation of college for NAAC Accreditation and Assessment	10,000/-



7	Annasaheb Gundewar College	Consultancy for Quality Enhancement	8,000/-
8	ISRO	Translating bulletin in 'Marathi'	25,000 /-
9	Commerce	Ekvira Tech, Shree Sai Automobiles, Swapnameet Global services	48,000 /-
		<b>Total</b>	<b>1,61,150/-</b>

### 7. Green Initiatives

- Green Audit at the levels of energy conservation, water conservation, waste management and pollution control.
- Rain Water Harvesting done
- Tree Plantation Program held on regular basis
- Awareness Programs on Tree Plantation.
- Feeders and water pots are set in the premises of college campus for birds and it has proved very helpful for birds to quench their thirst especially in summer.
- Preparation of Bio fertilizer from Kitchen Waste.
- Preparation of Bio fertilizer from Floral Waste.

### 8. Improvement in Sports Facilities and Outcome:

There have been several measures to enhance sports facilities. Increase in aid to students to purchase sports goods, travel grants etc. is given Total amount spent on the students for sports in this period was **Rs.1,17, 843/-**. Besides, goods worth **Rs. 6,31,669/-** have been purchased.

The outcome of this was that **346** students have participated in various National /International/ State/University level sports events.



LATE GOVINDRAO WANJARI  
Founder

DR. (Smt.) SUHASINI G. WANJARI  
President

Adv. ABHIJIT G. WANJARRI  
Secretary

Dr. ARVIND SHENDE  
Principal



AMAR SEVA MANDAL'S

(Regd. No. M/220/78 NGP)

F-2299 (N)

**KAMLA NEHRU MAHAVIDYALAYA**

(ARTS, COMMERCE & SCIENCE)

SAKKARDARA CHOWK, NAGPUR - 440 024

Ph. : (0712) 2747853, 2747854, 2742308, 2749784 Fax - (0712) 2747853

'A' Grade Reaccredited by NAAC

E-mail : kcnag@rediffmail.com Website : www.kamlanehrucollege.ac.in

KNM/ 215/2017

Date... 31/3/2017

### Declaration by the Head of the Institution

I Dr. Arvind K. Shende certify that the data included in this Self-study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.

Place: Nagpur

Date: 31/3/2017

Signature of the Head of the institution

with seal:

**PRINCIPAL**

Kamla Nehru Mahavidyalaya  
Sakkardara Chowk, Nagpur





LATE GOVINDRAO WANJARI  
Founder

DR. (Smt.) SUHASINI G. WANJARI  
President

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Secretary

Dr. ARVIND SHENDE  
Principal



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KNM/ 215/2017

Date 31/3/2017

### Certificate of Compliance


This is to certify that **Amar Sewa Mandal's 'Kamla Nehru Mahavidyalaya, Nagpur'** fulfills all norms

1. Stipulated by: **Rashtrant Tukadoji Maharaj Nagpur University, Nagpur**
2. Regulatory Council Body: **University Grant Commission** and
3. The affiliation and recognition is valid as on date

It is noted that NAAC's accreditation if granted, shall stand cancelled automatically, once the institution loses the University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to the NAAC will be displayed on the college website.

Place: Nagpur  
Date: 31/3/2017

  
Signature of the head of the institution  
with seal:  
**PRINCIPAL**  
Kamla Nehru Mahavidyalaya  
Sakkardara Chowk, Nagpur



Annexure- 1

UNIVERSITY GRANTS COMMISSION  
BAHADUR SHAH ZAFAR MARG  
NEW DELHI-110002.

No.F.B-24/97 (GPP-I)

January, 1999.

The Registrar,  
Nagpur University,  
Nagpur-440 010 (Maharashtra).

29 JAN 1999

Sub: List of colleges prepared under Section-2(f) of the UGC Act, 1956-Inclusion of New Colleges.

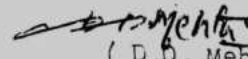
Sir,

I am directed to refer to letter dated 12-12-98 of Kamla Nehru Mahavidyalaya forwarded by the University on the above subject and to say that the name of the following college has been included in the above list under Non-Government college teaching upto Bachelor's Degree :

<u>Name of the College</u>	<u>Year of Estt.</u>	<u>Remarks</u>
Kamla Nehru Mahavidyalaya, Nagpur. ( Dr. Smt. S.G. Wanjari )	June, 1983	The College is eligible to receive central assistance in terms of the rules framed under Section-12-B of the UGC Act, 1956.

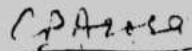
The Indemnity Bond and other documents in respect of the above college have been accepted by the Commission.

Yours faithfully,

  
( D.D. Mehta )  
Under Secretary

Copy forwarded to:-

1. The Principal, Kamla Nehru Mahavidyalaya, Sakardara Cowk, Nagpur.
2. The Secretary, Govt. of India, Ministry of Human Resource Development, Deptt. of Education, T-14 Section, New Delhi.
3. Joint Secretary, UGC Western Regional Office, Ganeshkhind, Pune University Campus, Pune-411 007.
4. All Sections, UGC.
5. Section Officer, (FD-III Section) UGC, New Delhi.
6. D.T.P. Cell, UGC.
7. Guard file.

  
( C.P. Arora )  
Section Officer



**Annexure- II**

**अखिल भारतीय तकनीकी शिक्षा परिषद्**  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 (भारत सरकार का एक सांविधिक निकाय) (A STATUTORY BODY OF THE GOVT. OF INDIA)

**REVISED ORDER**

F. No. MS-019(MCA)/ET/2000

Dated: 25/09/2007

To,  
 The Director  
 AMAR SEVA MANDAL'S KAMLA NEHRU MAHAVIDYALAYA  
 SAKKARDARA CHOWK  
 NAGPUR - 440 009 MAHARASHTRA

Sub: Extension of AICTE approval to AMAR SEVA MANDAL'S KAMLA NEHRU MAHAVIDYALAYA  
 SAKKARDARA CHOWK NAGPUR - 440 009 MAHARASHTRA

Sir,

This is partial modification to the Council's earlier letter F. No. MS-019(MCA)/ET/2000 Dated 10/05/2007, the revised status of the programme of the Institute is as follows:

S. No.	Name of the Course(s)	Existing Intake 2007-2008	Revised Intake
1.	MCA	60	60
2.	MBA	00	60*#

Note: - \* The approval for additional course(s) / increase in intake / variation in intake is valid for two years from the date of issue of this letter for obtaining affiliation with respective university and fulfilling State Government requirements of admission.

# The Institutions has required to submit a Joint FDR of Rs. 15 Lakh for the above sanctioned additional course of MBA by 31<sup>st</sup> October, 2007 to concerned Regional Office.

The additional Intake is being granted based on the projection shown in the Detailed Project Report regarding additional built up space, faculty and other facilities for the proposed intake. It may be noted that all facilities including additional built up area should be made available before the commencement of the next academic session. Random surprise inspection would be carried out to verify facilities and if the institute is found deficient in fulfillment of norms and standards of AICTE, appropriate action would initiate by the Council.

All others terms and conditions of the approval letter under reference will remain unchanged.

\* This approval is granted based on the Appraisal of the information submitted by the Institution on infrastructural, faculty and academic facilities created for the proposed course(s). Therefore the approval is subject to the verification of the claims made by the institution through an Expert Committee Visit. In case the claims made by the institution are found to be false, the approval granted shall be liable to be withdrawn.

Yours faithfully,

*K. Madhu Murthy*  
 (Prof. K. Madhu Murthy)  
 Advisor- (M&T)

Copy to:

1. The Secretary,  
 Higher & Technical Education & Employment Department  
 Govt. of Maharashtra, Mantralaya, Mumbai - 400 032.
2. The Director of Technical Edu.,  
 Govt. of Maharashtra, 3, Mahapalika Marg, Mumbai - 400 001.
3. The Regional Officer  
 Western Regional office  
 AICTE, Industrial Assurance building  
 2<sup>nd</sup> Floor, Veer Nariman Road,  
 Opp. Churugate Rly. Station, Mumbai - 400 020
4. Guard File (AICTE)

*K. Madhu Murthy*  
 (Prof. K. Madhu Murthy)  
 Advisor- (M&T)

इंदिरा गांधी खेल परिसर, इन्द्रप्रस्थ एस्टेट, नई दिल्ली - 110002  
 Indira Gandhi Sports Complex, I. P. Estate, New Delhi-110 002  
 दूरभाष / Phone : 23392506, 63-65-68, 71, 73-75 फैक्स / Fax : 011-23392554  
 वेबसाइट / Website : www.aicte.ernet.in





All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

NAGPUR, NAGPUR,  
Maharashtra, 440024

6. Guard File(AICTE)



*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)  
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

					University, Nagpur					
MCA	1st Shift	POS T GRA DUA TE	MASTERS IN COMPUTER APPLICATIONS	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur	60	60	NA	NA	NA

The above mentioned approval is subject to the condition that KAMLA NEHRU MAHAVIDYALAYA [MCA & MBA PROGRAMME] shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

**Dr. Avinash S Pant**  
**Vice - Chairman, AICTE**

Copy to:

1. **The Regional Officer,**  
All India Council for Technical Education  
Industrial Assurance Building  
2nd Floor, Nariman Road  
Mumbai - 400 020, Maharashtra
2. **The Director Of Technical Education,**  
Maharashtra
3. **The Registrar,**  
The Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. **The Principal / Director,**  
KAMLA NEHRU MAHAVIDYALAYA [MCA & MBA PROGRAMME]  
SAKKARDARA CHOWK  
NAGPUR,  
NAGPUR,NAGPUR,  
Maharashtra,440009
5. **The Secretary / Chairman,**  
AMAR SEWA MANDAL  
SAKKARDARA CHOWK,

Application Number: 1-2809661961  
Note: This is a Computer generated Report.No signature is required.

Page 2 of 3  
Letter Printed On:23 April 2016

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*All India Council for Technical Education*  
(A Statutory body under Ministry of HRD, Govt. of India)  
7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

F.No. Western/1-2809661961/2016/EOA

Date: 05-Apr-2016

To,

The Secretary,  
Tech. & Higher Education Deptt.  
Govt. of Maharashtra, Mantralaya,  
Annexe Building, Mumbai-400032

**Sub: Extension of approval for the academic year 2016-17**

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F.No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Western	Application Id	1-2809661961
Name of the Institute	KAMLA NEHRU MAHAVIDYALAYA [MCA & MBA PROGRAMME]	Permanent Id	1-10911973
Name of the Society/Trust	AMAR SEWA MANDAL	Institute Address	SAKKARDARA CHOWK NAGPUR, NAGPUR, NAGPUR, Maharashtra, 440009
Institute Type	Unaided - Private	Society/Trust Address	SAKKARDARA CHOWK,NAGPUR,NAGPUR,Maharashtra,440024

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the intake indicated below for the academic year 2016-17

Application Id: 1-2809661961			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 2016-17	NRI Approval status	PIO / FN / Gulf quota Approval status	Foreign Collaboration/Twinning Program Approval status
Program	Shift	Level								
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	The Rashtrasant Tukadoji Maharaj Nagpur	60	60	NA	NA	NA

Application Number: 1-2809661961

Note: This is a Computer generated Report.No signature is required.

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Letter Printed On:23 April 2016

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अखिल भारतीय तकनीकी शिक्षा परिषद्  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 (भारत सरकार का एक सांविधिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

F.No: MS-019(MCA)/ET/2000

Date : 03.09.2001

To  
 The Secretary  
 Higher & Technical Education &  
 Employment Department,  
 Govt. of Maharashtra  
 Mantralaya, Mumbai - 400 032.

Sub: AICTE approval to AMAR SEWA MANDAL, SAKKARDARA CHOWK, NAGPUR for establishment of KAMLA NEHRU MAHAVIDYALAYA SAKKARDARA CHOWK, NAGPUR.

Sir,

I am directed to state that based on the consultations with the concerned State Govt., the concerned affiliating body and on recommendations of the All India Board of Information Technology, the Expert Committee constituted by the Council and as per the provisions of AICTE Act and Regulations, the All India Council for Technical Education (AICTE), is pleased to accord approval to AMAR SEWA MANDAL, SAKKARDARA CHOWK, NAGPUR for establishment of KAMLA NEHRU MAHAVIDYALAYA SAKKARDARA CHOWK, NAGPUR for the academic year 2001-2002, for course(s) and intake as given below with specific condition that admission shall be made through the Central Counseling by the Government of Maharashtra only. This approval is valid only for the academic years 2001-2002 and cannot be extended for the next year 2002-2003. In the event the establishment of the institutions having not been operationalised, this approval is not valid unless AICTE specifically revalidates.

COURSE(S)	INTAKE	LEVEL	PERIOD OF APPROVAL
MASTERS IN COMPUTER APPLICATION (MCA) (3 YRS FULL TIME DAY PROGRAMME)	30.	P.G. DEGREE	2001-2002

This approval has been accorded subject to fulfillment of general conditions and as per the Norms and Standards of the AICTE, and also specific conditions(if any, given).

The attention of the management is drawn to the fact that the approval given now is only for one academic session before the end of which an expert committee shall visit to assess if the norms and standards as stipulated by AICTE are fulfilled, and only then will the continuation or otherwise shall be intimated.

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20.05.1994 based on the Hon'ble Supreme Court Judgement dated 04.02.1993 with regard to WP(C) No. 607 of 1992 in the case of Umni Krishnan JP and other etc. Vs. State Government of Andhra Pradesh and others etc. and later judgements. No Management/Institute/Trust or Society shall announce admissions directly under any circumstances. Any action by the institute contrary to any provisions laid down by the Council and concerned State Government shall make it liable for actions.

Contd2..

इंदिरा गांधी खेल परिसर, इन्दप्रस्थ एस्टेट, नई दिल्ली - 110 002  
 Indira Gandhi Sports Complex, I.P Estate, New Delhi - 110 002  
 Phone : 3379010/11/12/13/15/16/17/18. Fax : 011-3379002



Annexure- III





**Section IV: Recommendations for Quality Enhancement of the Institution**  
 (Please limit to *ten major ones* and use telegraphic language)  
 (It is not necessary to indicate all the ten bullets)

- The college has the potential to mobilize extramural funds for research and deployment
- Expedite the process of filling the vacant faculty positions
- Recruit more number of qualified and competent faculty for self-financed courses
- College may plan for a full-fledged course in communicative English
- Expand and strengthen library, virtual learning resources and more terminals for better access by the students
- Explore areas of expertise and consultancy and develop formal linkages with local institutions
- Effective integration of ICT in teaching and learning and campus networking with access to *wifi* network.
- Expansion and use of college website for greater interaction and learning.
- Strengthening sports facilities and activities

I agree with the observations of the peer Team as mentioned in this report.



Signature of the Head of the Institution  
 Seal of the Institution

**PRINCIPAL**  
 Kamla Nehru Mahavidyalaya  
 Sakardata, Nagpur

Signatures of the Peer Team Members:


Name, Designation and Address		Signature with date
<b>Prof. Prasant Kumar Sahoo</b> Vice Chancellor, Utkal University, Vanivihar, Bhubaneswar – 751004	Chairman	 22/12/12
<b>Prof. Bhaskar N Joshi</b> Summer Professor of Zoology, Gulbarga University, MS Ganesh Darshan Apt, Mangalwarpet Tatawadi, Belgaum 590006 Karnataka	Member Coordinator	 22/12/2012
<b>Dr (Mrs) Kiran Angra</b> Principal, MDSG Girls College, Newelby Road Bambale City - 134003	Member	 22/12/12
<b>Dr. Jangannath Patil</b> Deputy Adviser NAAC, Nagarbhavi Bangalore – 560072	NAAC Coordinating Officer	

Place: Nagpur

Date: December 22, 2012



Section I: GENERAL	Information
<p>1.1 Name &amp; Address of the Institution :</p> <p>1.2 Year of Establishment :</p> <p>1.3 Current Academic Activities at the Institution (Numbers):</p> <ul style="list-style-type: none"> <li>• Faculties/ Schools :</li> <li>• Departments/ Centres :</li> <li>• Programmes/ Courses offered :</li>   <li>• Permanent Faculty Members:</li> <li>• Temporary Teachers:</li> <li>• Permanent Support Staff:</li>   <li>• Students</li> </ul> <p>1.4. Three major features in the institutional Context (As perceived by the Peer Team):</p>	<p>Kamla Nehru Mahavidyalaya Sakkardara Square, Nagpur Nagpur - 440009 (Maharashtra)</p> <p>1983</p> <p>Arts, Science, Commerce, MBA and MCA 03 Arts 09, Sci. 11, Com. 04, Others 03 Total 27 UG: 10, PG: 23, PG-Dip. 02, PhD 06</p> <p>Male: 26 Female : 19 Total: 45 Management appointed Male : 36 Female: 87 Total: 123</p> <p>UG: Male -887, Female -1892. Total -2779 PG: Male -322, Female- 723 Total – 1045 Grand Total: 3824</p> <ul style="list-style-type: none"> <li>▪ Twenty-nine year old educational institution located in urban Nagpur in the <i>Vidarbha</i> region of Maharashtra</li> <li>▪ Caters primarily to the higher educational needs of the students from disadvantaged sections of the region</li> <li>▪ Coeducational institution, having women students in majority, offers various UG and PG courses.</li> </ul>
<p>1.5 Dates of visit of the Peer Team (A detailed visit schedule included)</p>	<p>December 20-22, 2012</p>
<p>1.6. Composition of the Peer Team which undertook the on- site visit:</p> <p>Chairperson</p>	<p><b>Prof. Prasant Kumar Sahoo</b> Vice Chancellor, Utkal University, Vanivihar, Bhubaneswar – 751004</p>
<p>Member Coordinator</p>	<p><b>Prof. Bhaskar N Joshi</b> Former Professor of Zoology, Gulbarga University, 103 Ganesh Darshan Apt CTS 107 Mangalwarpet Belgaum – 590006 Karnataka</p>

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 22/12/12



Member	<b>Dr (Mrs) Kiran Angra</b> Principal, MDSD Girls College, Novelty Road Ambala City - 134003
NAAC Coordinator	<b>Dr. Jagannath Patil</b> , Deputy Advisor, NAAC Nagarbhavi, Bangalore 560072
<b>Section II: CRITERION-WISE ANALYSIS</b>	<b>Observations (Strengths and/or Weaknesses) on Key-Aspects</b> (Please limit to <i>three major ones</i> for each and use telegraphic language <b>(It is not necessary to indicate all the three bullets each time; write only the relevant ones)</b> )
<b>2.1 Curricular Aspects:</b>	
2.1.1 Curricular Design & Development:	<ul style="list-style-type: none"> <li>• Courses offered have relevance to employability and empowerment of the students belonging to disadvantaged sections of the society</li> <li>• The affiliating University designs and develops Curriculum. Faculty contribution to curriculum development is through the members of BoS</li> <li>• Informal consultations are done with various stakeholders on curriculum/program development</li> </ul>
2.1.2 Academic flexibility:	<ul style="list-style-type: none"> <li>• Institution offers a wide range of program options</li> <li>• Some new courses started after previous accreditation.</li> <li>• Enrichment programs like communicative English and other certificate courses available</li> <li>• Semester system introduced for some courses</li> </ul>
2.1.3 Feedback on Curriculum	<ul style="list-style-type: none"> <li>• Feedback on curriculum from students, alumni and employers is obtained.</li> <li>• Teachers give feedback following participation in seminars/workshops</li> <li>• Courses run on both annual and semester system. Choice based credit system yet to be introduced.</li> </ul>
2.1.4 Curriculum update	<ul style="list-style-type: none"> <li>• The affiliating University determines the frequency of curriculum updates, which is usually every four years.</li> <li>• There is awareness among the faculty about current trends in curricular aspects and the need for regular updates.</li> <li>• The affiliating University by and large follows the UGC guidelines in this matter.</li> </ul>

*K. Laloo*  
22/12/12

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<p>2.1.5 Best Practices in Curricular aspects (If any):</p>	<ul style="list-style-type: none"> <li>• Post accreditation, addition of new courses.</li> <li>• Value addition by offering communicative/business English, radiation biology and refrigeration</li> <li>• Focus on employability /empowerment</li> </ul>
<p><b>2.2 Teaching- Learning &amp; Evaluation:</b></p> <p>2.2.1 Admission Process and Student Profile:</p> <p>2.2.2 Catering to the diverse needs:</p> <p>2.2.3 Teaching-Learning Process:</p> <p>2.2.4 Teacher Quality:</p>	<ul style="list-style-type: none"> <li>• Admission notices published in college prospectus/information brochure, newspapers and in the college website.</li> <li>• Admission process is transparent; reservation rules and regulations of Maharashtra Govt. and the affiliating university followed</li> <li>• In general for UG/PG courses merit at the qualifying exam is a major criterion for admission. Admission for MCA, MBA are on the basis of CET conducted by the Director of Technical Education, Mumbai. Management quota as per Management Association of MCA Institutions.</li> <li>• About 68% of students admitted are women. Many students are from economically backward classes</li> <li>• Performance at 'Recapitulation- classes' used to assess learning abilities of students</li> <li>• Remedial coaching/tutorials initiated for disadvantaged.</li> <li>• Predominantly lecture-method of teaching.</li> <li>• Use of ICT in teaching initiated; 7 class room have smart boards.</li> <li>• Teaching plan and calendars prepared before the beginning of the academic year and maintained</li> <li>• Inadequate number of qualified and experienced teachers, [Ph.D (17) /M.Phil. (20).</li> <li>• Recruitment of teachers as per Govt./affiliating university rules. Non-availability of NET/SET qualified students stated as reason for not filling vacant posts</li> <li>• Institution appoints teachers on ad hoc basis to make up for the deficiency. Post accreditation 21 teachers are appointed on ad hoc basis to take care teaching some science courses.</li> </ul>

*[Signature]*  
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<p>2.2.5 Evaluation Process and Reforms:</p> <p>2.2.6 Best Practices in Teaching-learning and Evaluation (If any):</p>	<ul style="list-style-type: none"> <li>• Teachers are encouraged to participate in seminars, symposia and conferences. Some department have the credit of organizing academic meetings</li> <li>• Evaluation is as per rules and regulations of the affiliating University.</li> <li>• Internal assessment is through unit tests and term exams</li> <li>• Affiliating university controls the process of examination and evaluation.</li> <li>• Grievance redressed following procedure laid down by the university for this purpose</li> <li>• College monitors regular attendance of classes</li> <li>• Value addition for some courses by training in communicative skills</li> <li>• A few teachers have won recognition for their work at local/regional levels.</li> </ul>
<p><b>2.3 Research, Consultancy &amp; Extension:</b></p> <p>2.3.1 Promotion of Research:</p> <p>2.3.2 Research and Publications Output:</p> <p>2.3.3 Consultancy:</p> <p>2.3.4 Extension Activities:</p>	<ul style="list-style-type: none"> <li>• Research Advisory Committee formed to promote and monitor research activity</li> <li>• In science faculty a BRNS-supported major research project and another in collaboration with NEERI completed. Other faculty members have applied for UGC grants for their research.</li> <li>• There is scope for mobilizing more extramural funding lacking.</li> <li>• Thrust areas of research is in the field of luminescence and polymers</li> <li>• Research output is seen in the form of publications in journals with impact factor. Some teachers published books</li> <li>• Some faculty members are university recognized research supervisors</li> <li>• University has recognized 06 department as research centre</li> <li>• Informal</li> <li>• Potential consultancy areas not yet explored/published.</li> <li>• NSS unit is active.</li> <li>• The students participated in several social welfare activities including blood donations, gender issues and health-related issues</li> </ul>

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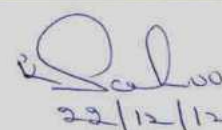


<p>2.3.5 Collaborations:</p> <p>2.3.6 Best Practices in Research, Consultancy and Extension (If any):</p>	<ul style="list-style-type: none"> <li>• Other activities include various awareness programs including green behavior and harms of tobacco thro' drama/street plays</li> <li>• College has MOU with M P Deo Dharampeth college for faculty and student exchange</li> <li>• Many student projects in various departments especially in science faculty</li> <li>• Functional Research Advisory Committee</li> <li>• A common research centre with equipments established</li> </ul>
<p><b>2.4 Infrastructure and Learning Resources:</b></p>	
<p>2.4.1 Physical Facilities for Learning:</p>	<ul style="list-style-type: none"> <li>• Adequate well- maintained multistoried-building space. Good and secure ambience</li> <li>• Infrastructure for both indoor/outdoor sports inadequate due to space constraints.</li> <li>• Good computer labs with broad band Internet connections available for MSc Computer Science, MCA and MBA Courses</li> <li>• Satisfactory lab space for UG/PG courses</li> </ul>
<p>2.4.2 Maintenance of Infrastructure:</p>	<ul style="list-style-type: none"> <li>• Infrastructure well maintained</li> <li>• Management and the principal look after maintenance.</li> </ul>
<p>2.4.3 Library as a Learning Resource:</p>	<ul style="list-style-type: none"> <li>• Qualified Librarian.</li> <li>• Computer facilities in library available. Students have limited access.</li> <li>• Library automated OPAC system is operative</li> <li>• Library has space constraint.</li> </ul>
<p>2.4.4 ICT as Learning Resources:</p>	<ul style="list-style-type: none"> <li>• Integration of ICT in teaching-learning initiated</li> <li>• LCD/ CDs and some virtual learning resources available</li> <li>• College has website</li> </ul>
<p>2.4.5 Other Facilities:</p>	<ul style="list-style-type: none"> <li>• Two well maintained hostels for girl students, a common ladies room in the college campus</li> <li>• Spacious auditorium</li> <li>• Canteen facility available</li> </ul>
<p>2.4.6 Best Practices in the development of</p>	<ul style="list-style-type: none"> <li>• Optimal utilization of infrastructure</li> </ul>

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Infrastructure and Learning Resources (If any):	<ul style="list-style-type: none"> <li>Laboratories equipped but need upgrading</li> </ul>
<b>2.5 Student Support and Progression:</b>	
2.5.1 Student Progression:	<ul style="list-style-type: none"> <li>The examination results are satisfactory and some times better than university average</li> <li>Dropout rate is high</li> </ul>
2.5.2 Student Support:	<ul style="list-style-type: none"> <li>College publishes its prospects and annual magazine regularly.</li> <li>Placement cell activated. Faculty participate in counseling</li> <li>Efforts are on to establish formal counseling.</li> <li>Woman's cell established</li> </ul>
2.5.3 Student Activities:	<ul style="list-style-type: none"> <li>Alumni association activated</li> <li>Students participate in University and state level units</li> <li>Active students council</li> </ul>
2.5.4 Best Practices in Student Support and Progression (If any):	<ul style="list-style-type: none"> <li>Cultural heritage maintained through dance, drama and music</li> <li>Student's representation in IQAC</li> </ul>
<b>2.6 Governance and Leadership:</b>	
2.6.1 Institutional Vision and Leadership:	<ul style="list-style-type: none"> <li>Committed and open-minded management</li> <li>Principal provides good leadership and has cordial relationship with staff.</li> <li>Principal and staff have cordial relation with management.</li> </ul>
2.6.2 Organizational Arrangements:	<ul style="list-style-type: none"> <li>Active local management committee.</li> <li>Various committees have been constituted to look after administrative, academic and extracurricular work</li> <li>Frequent interactions between the faculty member for institutional academic and policy issues.</li> </ul>
2.6.3 Strategy development and deployment:	<ul style="list-style-type: none"> <li>Feedback from stakeholders for performance improvement.</li> <li>Academic planning in consultation with stakeholders.</li> <li>Meticulous planning and use of resources.</li> </ul>
2.6.4 Human Resource Management:	<ul style="list-style-type: none"> <li>Assessment of teachers by students is in place</li> </ul>

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<p>3.3 Institutional Challenges</p> <p>3.4 Institutional Opportunities:</p>	<ul style="list-style-type: none"><li>• Inadequate mobilization of extramural funding for research and development.</li><li>• Fostering competitive and communicative skills in the students.</li><li>• Appointing more number of competent teachers for self-supported courses.</li><li>• Strengthening and upgrading science laboratories</li><li>• Integration of ICT in teaching learning process.</li><li>• Improving sports facilities</li><li>• Filling up of vacant faculty positions in aided courses</li> <li>• Strengthening of cosmetic technology course.</li><li>• Faculty development programs</li><li>• Strengthening courses in basic sciences</li><li>• Developing good communicative skills.</li><li>• Offering short-term courses in communicative English</li></ul>
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*[Handwritten Signature]*  
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**Annexure- IV****List of optional subjects in Choice based credit system: (CBCS)**

Sr. No.	Department	Course	Optional subjects	
1	Biochemistry	M. Sc. (Biochemistry)	Sem-III Elective Theory papers: 1) Toxicology (Biochemical & Environmental Toxicology) 2) Nutrition (Nutritional Biochemistry) Practical: 1) Toxicology (Biochemical & Environmental toxicology) 2) Nutrition (Nutritional Biochemistry)	Sem-IV Elective Theory Papers: 1) Toxicology (Clinical research) 2) Nutrition (Applied Nutritional Biochemistry) Practical: 1) Advanced Clinical Biochemistry & Immunology 2) Toxicology (Clinical research) 3) Nutrition (Applied nutritional Biochemistry)
2	Environmental Science	M. Sc. (Env. Sci)	Sem-III Elective Theory Papers: Paper-I - Water and Water treatment Paper-II – Water Supply and Resources Practical: Elective- I : Water & Water treatment Elective –II: Water Supply and Resources	Sem-IV Elective Theory Papers: Elective-I: Environmental Impact Assessment and Legislation Elective-II: Environmental Management
3	Mathematics	M. Sc. (Mathematics)	Sem-III Core Elective Theory Papers: 1) Fluid Dynamics – I 2) General Relativity 3) Operation Research-I Foundation Papers for students other than Mathematics: 1) Elementary Mathematics 2) Elementary Mathematical Methods 3) Elementary Numerical Methods 4) Fuzzy	Sem-IV Core Elective Theory Papers: 1) Fluid Dynamics-II 2) Cosmology 3) Operation Research-II Foundation Papers for students other than Mathematics: 1) Elementary Discrete Mathematics 2) Fuzzy Mathematics 3) Linear Programming



			Mathematics-I	
4	Electronics	M. Sc. (Electronics)	Sem-III Optional Theory Papers: 1) Core Elective –I: Digital Signal Processing 2) Core Elective-II: Digital Image Processing Foundation paper/ Subject centric: 1) ELEF1: Basic Electronics 2) ELEFC1: Mechatronics	Sem-IV Optional Theory Papers: 1) Core Elective 1: Microwave and Optical Communication 2) Core Elective 2: Computer Communication Foundation Papers/ Subject centric: 1) ELEF2: PC & PC interfacing 2) Mobile and Satellite Communication
5	Physics	M. Sc. (Physics)	Sem-III Elective Paper: Material Science-I Subject Centric Paper: Nanoscience and Nanotechnology	Sem-IV Elective Paper- Material Science-II Subject Centric: Communication Electronics
6	Zoology	M. Sc. (Zoology)	Sem-III Theory Elective Papers: Elective Paper 1: Cell Biology –I Elective Paper 2: Cell Biology –II Subject Centric paper: Wild life and Aviation Biology	Sem-IV Theory Elective Papers: Elective1: Cell Biology Elective 2: Cell Biology Subject Centric: Radiation and Chronobiology
7	Botany	M. Sc. (Botany)	Sem-III Theory Elective Papers: Elective Paper-1: Molecular Biology-I Elective Paper-2: Plant Biotechnology Foundation Course/ Subject Centric: Paper-I: Aesthetic Botany	Sem-IV Theory Elective Papers: Elective Paper-1: Molecular Biology-II Elective Paper-2: Plant Biotechnology Foundation Course/ Subject Centric: Paper- II: Plant Resources
8	Biotechnolog y	M. Sc. (Biotech)	Sem-III Theory Elective Papers: Elective paper-I: Industrial Biotechnology-I Elective Paper-II: Environmental Biotechnology-I Foundation Course: Paper-I: Introductory Biotechnology Subject Centric: Paper-I: Diagnostic Medical Biotechnology	Sem-IV Theory Elective Papers: Elective paper-I: Industrial Biotechnology-II Elective Paper-II: Environmental Biotechnology-II Foundation Course: Paper-I: Molecular Biotechnology Subject Centric: Paper-I: Therapeutic Medical Biotechnology



			Practical Elective: 1) Industrial Biotechnology 2) Environmental Biotechnology	Practical Elective: 1) Industrial Biotechnology 2) Environmental Biotechnology
9	Microbiology	M. Sc. (Microbiology)	Sem-III Elective Theory Papers: Elective Paper1: Molecular Biology and Genetics Elective Paper2: Recombination DNA Technology and Nanotechnology Subject Centric: Paper –I: Microbial Diversity, Evolution and Ecology-I Foundation Course: Paper- I: Drugs and Disease Management	Sem-IV Elective Theory Papers: Elective Paper1: Virology Elective Paper2: Microbial Fermentation Technology Subject Centric: Paper –I: Microbial Diversity, Evolution and Ecology-II Foundation Course: Paper- I: Vaccine and Delivery System.
10	Chemistry	M. Sc. (Chemistry)	Sem-III Theory Elective Papers: Elective Paper-I: Organic Chemistry-I Elective Paper-II: Polymer Chemistry-I Compulsory Paper: Spectroscopy-I	Sem-IV Theory Elective Papers: Elective Paper-I: Organic Chemistry-II Elective Paper-II: Polymer Chemistry-II Compulsory Paper: Spectroscopy-II
11	Computer Science	M. Sc. (Comp. Sci.)	Sem-III Theory Elective Papers: Elective Paper-I: Elective Paper-II:	Sem-IV Theory Elective Papers: Elective Paper-I: Elective Paper-II:
12	English	M. A. (English)	<b>Sem-III</b> <b>Elective Theory Papers:</b> 1. <b>Elective 1 – 3T3(A)</b> – English Comedies 2. <b>Elective 2 -3T3(B)</b> – Twentieth Century American Literature 3. <b>Elective 3- 3T3(C)</b> – The English Novel – III 4. <b>Elective 4 -3T3(D)</b> – Post colonialism & Literature-II <b>Foundation Course:</b> 5. <b>F C - 3T4(A)</b> – communication Skill-I	<b>Sem-IV</b> <b>Elective Theory Papers:</b> 1. <b>Elective 1 – 4T3(A)</b> – African American Literature 2. <b>Elective 2 -4T3(B)</b> – Dalit Literature 3. <b>Elective 3- 4T3(C)</b> - Indian writing in English-II 4. <b>Elective 4 -4T3(D)</b> – Film Studies <b>Foundation Course:</b> 5. <b>F C - 4T4(A)</b> – communication Skill-II
13	Marathi	M. A. (Marathi)	<b>Sem-I</b> <b>Elective Theory Papers:</b> 1. Elective 103(A) : Kadambari	<b>Sem-I</b> <b>Elective Theory Papers:</b> 1. Elective 203(A) : “NibandhNibaNibandhv



			<p>2. Elective 103(B) : Natak</p> <p>3. Elective 103(C) : Katha</p> <p>4. Elective 104(A) : Sant Dnyaneshwar</p> <p>5. Elective 104(B) : V. V. Shirvadkar</p> <p>6. Elective 104(C) : Namdev Dhasal</p> <p><b>Sem-III</b> <b>Elective Theory Papers:</b></p> <p>1. Elective 303(A): Graminsahitya</p> <p>2. Elective 303(B): Dalit- Ambedkarvadi Sahitya</p> <p>3. Elective 303(C): Aadiwasi Sahitya</p> <p>4. Elective 303(D): Viderbhatil Sahityacha Abhyas</p> <p><b>Foundation Course:</b></p> <p>1. FC 304(A): Sahitya Chalvali</p> <p>2. FC 304(B): Prasarmadhyame ani Sahityavyavahar</p> <p>3. FC 304(C): Anuvadit Sahityacha Abhyas</p> <p>4. FC 304(D): Paryavaran ani Sahitya</p>	<p>angmayvaangmay”</p> <p>2. Elective 203(B) : Lalitagadyaprakar</p> <p>3. Elective 203(C) : Vaichariksahitya</p> <p>4. Elective 204(A) : Sahityaprakar</p> <p>5. Elective 204(B) : Sanshodhanshastra</p> <p>Elective 204(C) : Pashchatya sahityasidhant</p> <p><b>Sem-IV</b> <b>Elective Theory Papers:</b></p> <p>1. Elective 403(A):Loksahitya</p> <p>2. Elective 403(B): Strivadi Sahitya</p> <p>3. Elective 403(C): Bhashik Vyavahar ani Kaushalye</p> <p>4. Elective 403(D): Taulnik Sahitya abhyas</p> <p><b>Foundation Course:</b></p> <p>1. FC 404(A): Sahityacha Samjik, Sanskrutik abhyas</p> <p>2. FC 404(B): Chitrapat ani Sahitya</p> <p>3. FC 404(C): Anuvadit Sahityacha Abhyas</p> <p>4. FC 404(D): Sanvidhanmulye ani Sahitya</p>
14	History	M. A. (History)	<p><b>Sem-III</b> <b>Elective Theory Papers:</b></p> <p>1. <b>Core Elective 1:</b> A: Economic History of India: 1757-1857</p> <p>2. <b>Core Elective 2:</b> B:Ecology and Environment in India</p> <p><b>Foundation course:</b></p> <p>1. <b>FC 1: A:</b> India under a Sultanate Period (1206-1525 A.D.)</p>	<p><b>Sem-III</b> <b>Elective Theory Papers:</b></p> <p>1. <b>Core Elective 1:</b> A: Economic History of India: -1858 - 1947</p> <p>2. <b>Core Elective 2:</b> B:Ecology and Indian Human Societies</p> <p><b>Foundation course:</b></p> <p>1. <b>FC 1: A:</b> India under the Mughals( 1526 – 1707 A.D.)</p> <p>2. <b>FC 2: B:</b> History of</p>



			2. <b>FC 2: B:</b> History of Science and Technology in Pre-Colonial India	Science and Technology in Colonial India
15	Economics	M. A. (Economics)	<p><b>Sem-I</b>  <b>Elective Theory Papers:</b>  <b>Group A:</b>                      1.<b>EC- 01:</b> Statistics for Economics - I                      2.<b>EC- 02:</b> Indian Economic Policy I                      3.<b>EC- 03:</b> Economics of Infrastructure                      4.<b>EC- 04:</b> Trade Cycle                      5.<b>EC- 05:</b> Regional Economics  <b>Group B:</b>                      6.<b>EC- 06:</b> Mathematical Economics-I                      7.<b>EC- 07:</b> Industrial Economics – I                      8.<b>EC- 08:</b> Public Economics - I                      9.<b>EC- 09:</b> Economics of Education and Health                      10. <b>EC- 10:</b> Human Development  <b>Sem-III</b>  <b>Group E:</b>  <b>Elective Theory Papers:</b>                      21. <b>EC – 21 :</b> Financial Institutions &amp; Markets-I                      22. <b>EC – 22 :</b> Research Methodology-I                      23. <b>EC – 23 :</b> Labour Economics                      24. <b>EC – 24 :</b> Poverty and Income Distribution                      25. <b>EC – 25 :</b> E-commerce                      26. <b>EC – 26 :</b> International Monetary System and Finance                      27. <b>EC – 27 :</b> Basic Econometrics                      28. <b>EC – 28 :</b> Gender Economics  <b>Group G</b></p>	<p><b>Sem-II</b>  <b>Elective Theory Papers:</b>  <b>Group C :</b>                      11. <b>EC- 11:</b> Statistics for Economics - II                      12. <b>EC- 12:</b> Indian Economic Policy II                      13. <b>EC- 13:</b> Agricultural Economics                      14. <b>EC- 14:</b> Urban Economics                      15. <b>EC- 15:</b> Rural Economy and Social Change  <b>Group D:</b>                      16. <b>EC- 16:</b> Mathematical Economics –II                      17. <b>EC- 17:</b> Industrial Economics – II                      18. <b>EC- 18:</b> Public Economics-II                      19. <b>EC- 19:</b> Environmental Economics                      20. <b>EC- 20:</b> History of Economic Thought  <b>Sem-IV</b>  <b>Group F:</b>  <b>Elective Theory Paper:</b>                      29. <b>EC – 29 :</b>Financial Institutions &amp; Markets-II                      30. <b>EC – 30 :</b> Research Methodology-II                      31. <b>EC – 31 :</b> Computer Application in Economics                      32. <b>EC – 32 :</b> Rural Development                      33. <b>EC – 33 :</b> Advanced Econometrics                      34. <b>EC – 34 :</b> Welfare Economics                      35. <b>EC – 35 :</b> Economics of Marketing                      36. <b>EC – 36 :</b> Export-Management  <b>Group H:</b></p>



			<p><b>Foundation Course:</b></p> <ol style="list-style-type: none"> <li>1. <b>FC –01</b> : Basic Statistics</li> <li>2. <b>FC – 02</b> : Issues in Indian Economy</li> <li>3. <b>FC – 03</b> : Managerial Economics</li> <li>4. <b>FC – 04</b> : Research in Social Sciences</li> </ol>	<ol style="list-style-type: none"> <li>1. <b>FC – 05</b> : Money and Banking</li> <li>2. <b>FC – 06</b> : Economy of Maharashtra</li> <li>3. <b>FC– 07</b> : Urban and Rural Economy</li> <li>4. <b>FC – 08</b> : Entrepreneur Development</li> </ol>
16	Political Science	MA (Political Science)	<p><b>Sem-I</b></p> <p><b>Elective Theory Papers:</b></p> <ol style="list-style-type: none"> <li>1. POL 004- Politics of Developing Countries</li> <li>2. POL 005- Fundamentals of Foreign Policy</li> <li>3. POL 006- International Law</li> <li>4. POL 007- Theory and Practice of Diplomacy</li> </ol> <p><b>Sem-III</b></p> <p>Elective Theory Papers:</p> <ol style="list-style-type: none"> <li>1. POL 017- Politics of Maharashtra</li> <li>2. POL 018-Local Self-Government</li> <li>3. POL 019- Electoral Politics in India</li> <li>4. POL 020- Globalization and its Impact on India</li> </ol> <p><b>FOUNDATION COURSE (To be opted as a paper by students of disciplines other than Political Science)</b></p> <ol style="list-style-type: none"> <li>1. POL 021- Political Science-Ideas and Concepts</li> <li>2. POL 022- Values of Indian Constitution</li> <li>3. POL 023- Indian Constitution and Its Working</li> <li>4. POL 024- Major Issues in Contemporary Politics</li> </ol>	<p><b>Sem-II</b></p> <p><b>Elective Theory Papers:</b></p> <ol style="list-style-type: none"> <li>1. POL 011- Political Sociology</li> <li>2. POL 012- Political Anthropology</li> <li>3. POL 013- Western Political Theory</li> <li>4. POL 014- South Asian Political System (Pakistan, Sri Lanka, Nepal and Bangladesh)</li> </ol> <p><b>Sem-IV</b></p> <p>Elective Theory Papers:</p> <ol style="list-style-type: none"> <li>1. POL 027-Pressure Groups and Social Movements</li> <li>2. POL 028- India and the World</li> <li>3. POL 029- International Human Rights-Problems and Prospects</li> <li>4. POL 030- Ancient Indian Political Thought</li> </ol> <p><b>FOUNDATION (To be opted as a paper by students of disciplines other than Political Science)</b></p> <ol style="list-style-type: none"> <li>1. POL 031- Public Policy in India</li> <li>2. POL 032- Reservation Policy in India</li> <li>3. POL 033- Development and Human Rights</li> <li>4. POL 034- Human Rights and Indian Constitution</li> </ol>
17	Sociology	M A	<b>Sem-I</b>	<b>Sem-I</b>



		(Sociology)	<p><b>Elective Theory Papers:</b>                      Paper – III Core Elective Papers (Optional)                      A. Sociology Of Social Movements                      B. Sociology Of Religion                      C. Sociology Of Migration                      Paper – Iv Core Elective Papers (Optional)                      A. Gender And Society                      B. Social Problems In Contemporary India                      C. Sociology Of Minority Groups</p> <p><b>Sem-III</b>  <b>Elective Theory Papers:</b>                      Paper – Iii Core Elective Papers (Optional)                      A. Sociology Of Education                      B. Sociology Of Social Exclusion                      C. Globalization And Society                      Paper – IV Core Elective Papers Elective Papers (Foundation)                      A. Rural Society In India                      B. Urban Society In India                      C. Social Change In Contemporary India                      D. Introductory Sociology                      E. Sociology Of Environment And Society</p>	<p><b>Elective Theory Papers:</b>                      Paper – III Core Elective Papers (Optional)                      A. Social Movements In India                      B. Sociology Of Aging                      C. Media And Society                      Paper – Iv Core Elective Papers (Optional)                      A. Women In Indian Society                      B. Sociology Of Social Stratification                      C. Industry And Society In India</p> <p><b>Sem-IV</b>  <b>Elective Theory Papers:</b>                      Paper – Iii Core Elective Papers (Optional)                      A. Education And Society In India                      B. Sociology Of Marginalized Communities                      C. Field Study Report                      Paper – Iv Core Elective Papers Elective Papers (Foundation)                      A. Rural Society In India: Issues And Problems                      B. Urbanization In India                      C. Contemporary Sociology                      D. Political Sociology                      E. Sociology Of Demography</p>
18	English	M. A. (English)	<p><b>Sem-III</b>  <b>Elective Theory Papers:</b>                      6. <b>Elective 1 – 3T3(A)</b> – English Comedies                      7. <b>Elective 2 -3T3(B)</b> – Twentieth Century American Literature                      8. <b>Elective 3- 3T3(C)</b> – The English Novel – III                      9. <b>Elective 4 -3T3(D)</b> – Post colonialism &amp; Literature-II</p>	<p><b>Sem-IV</b>  <b>Elective Theory Papers:</b>                      6. <b>Elective 1 – 4T3(A)</b> – African American Literature                      7. <b>Elective 2 -4T3(B)</b> – Dalit Literature                      8. <b>Elective 3- 4T3(C)</b>- Indian writing in English-II                      9. <b>Elective 4 -4T3(D)</b> – Film Studies  <b>Foundation Course:</b></p>





			<b>Foundation Course:</b> 10. F C - 3T4(A) – communication Skill-I	10. F C - 4T4(A) – communication Skill-II
19	Commerce	M. Com.	<b>Sem-III</b> <b>Foundation Group 1:</b> 1. FC1-F33- Direct Taxes 2. FC2-F33- Compute Application <b>Elective Theory Papers:</b> 11. Elective 1 – E34– Entrepreneurship Development 12. Elective 2 –E34 – Service Sector Management	<b>Sem-IV</b> <b>Foundation Group 2:</b> 1. FC1-F43- Indirect Taxes 2. FC2-F43- Operational Research <b>Elective Theory Papers:</b> 1. Elective 1 – E44– E-Commerce 2. Elective 2 –E44 – Company Law



**Annexure- V****List of Faculty attended Refresher Course**

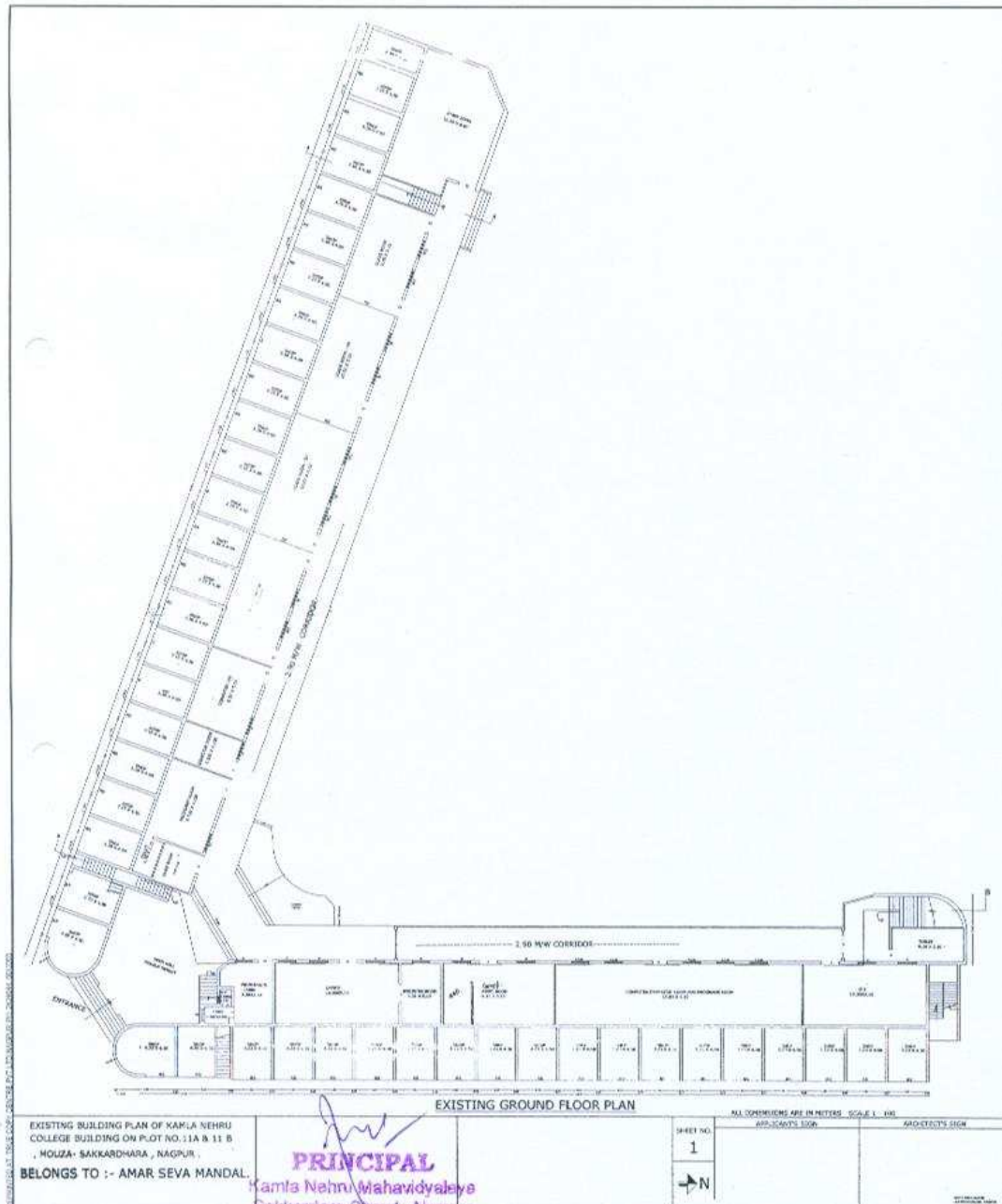
1. **Dr. Mrs. S. V. Parkar**
2. **Dr. A. P. Mahajan**
3. **Prof. M. R. Waliokar**
4. **Prof. V. T. Raut**
5. **Dr. A. S. Zoad**

**List of Faculty attended Orientation Course**

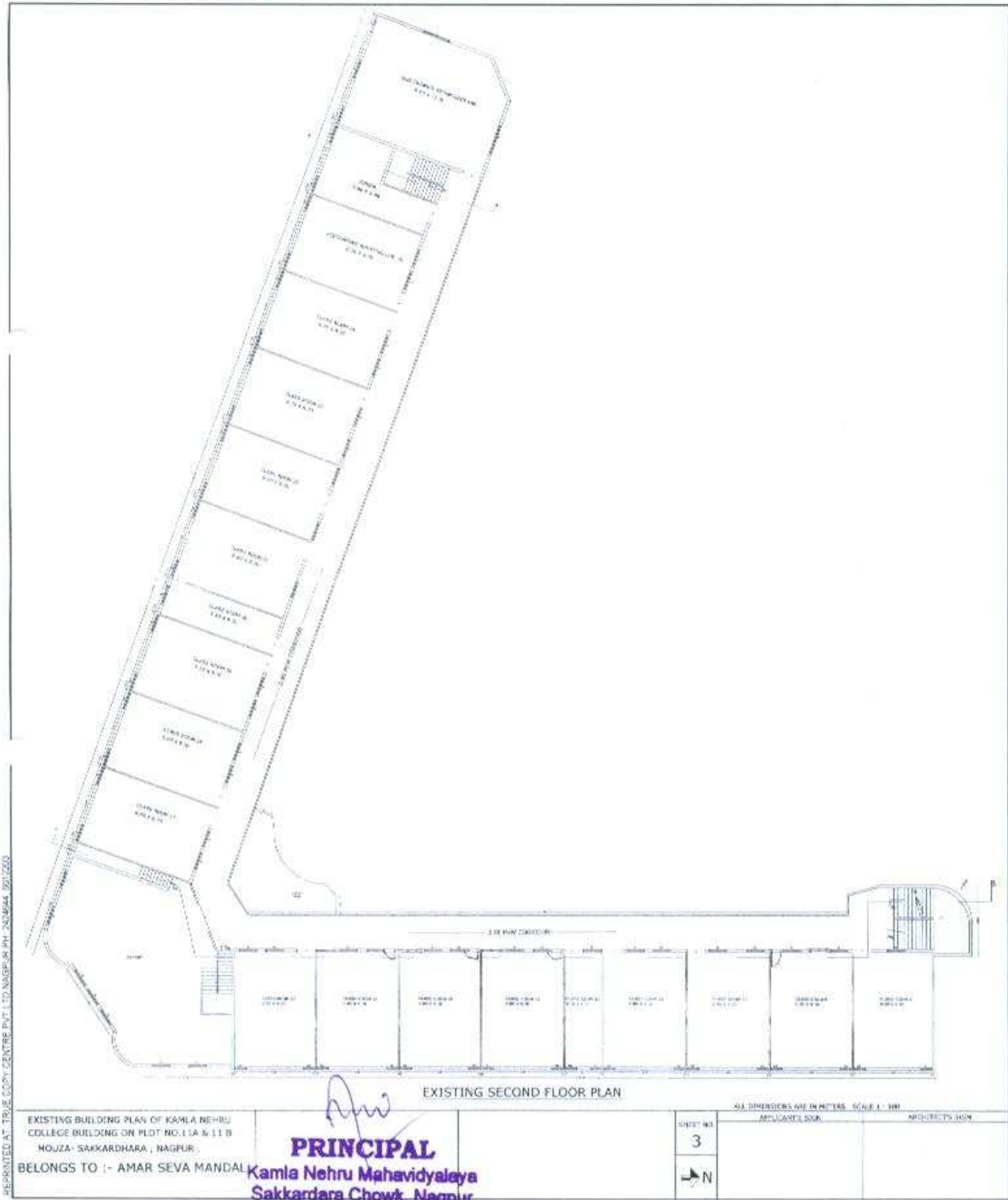
1. **Dr. Mrs. M. V. Borkar**
2. **Prof. P. M. Sontakke**
3. **Dr. Mrs. S. R. Moghe**
4. **Prof. Mrs. Deepti Laud**

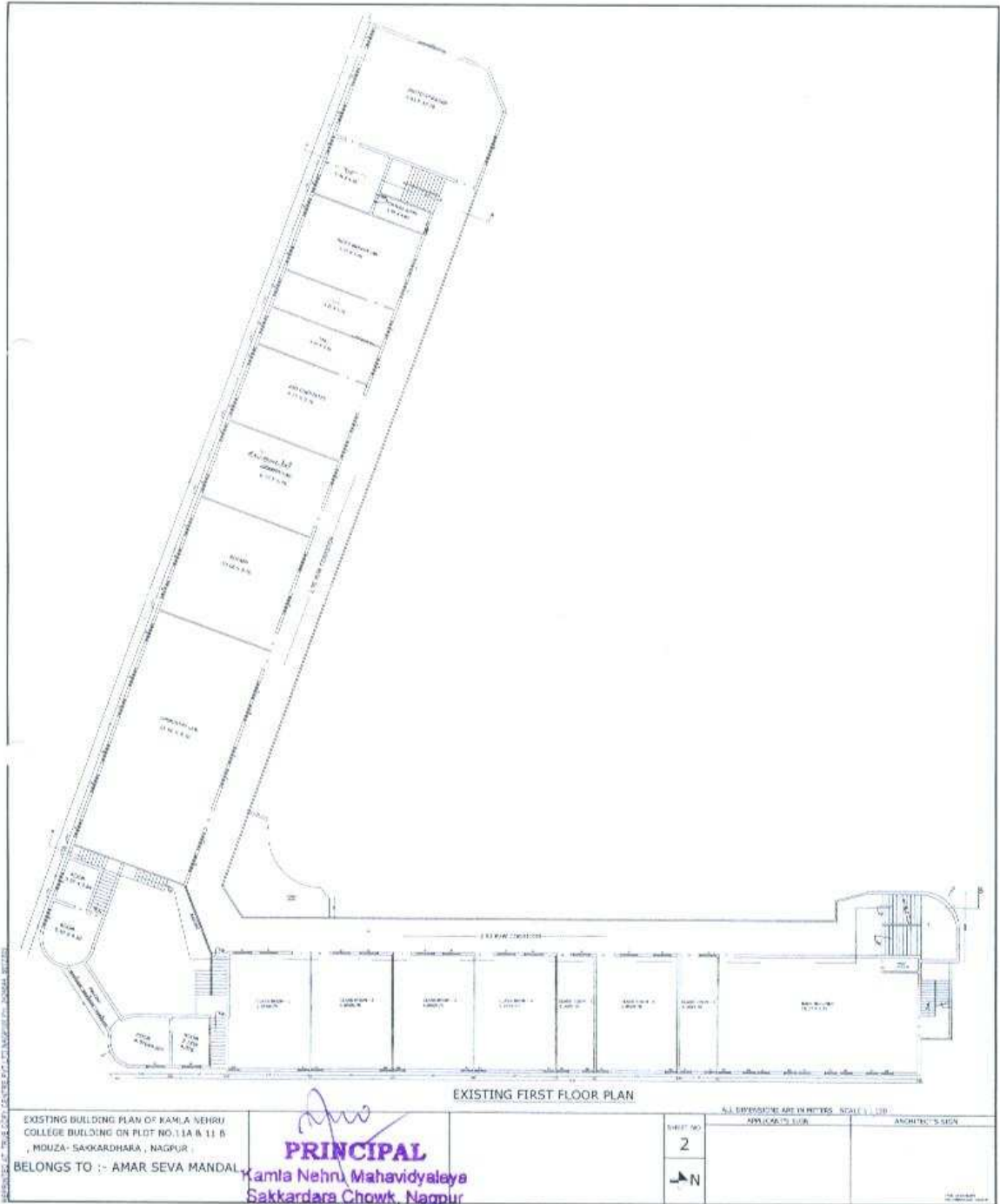


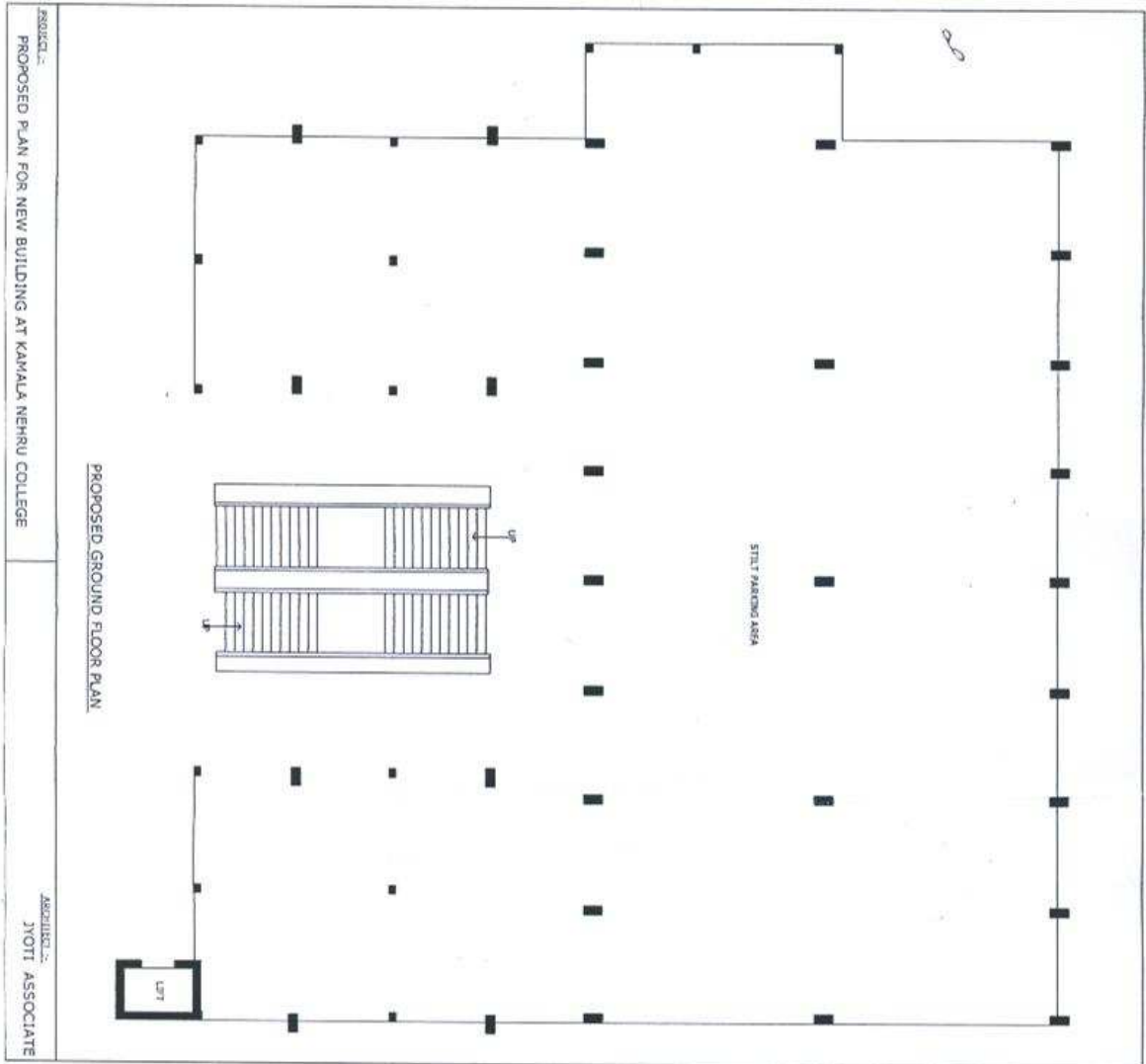
**Annexure- VI**







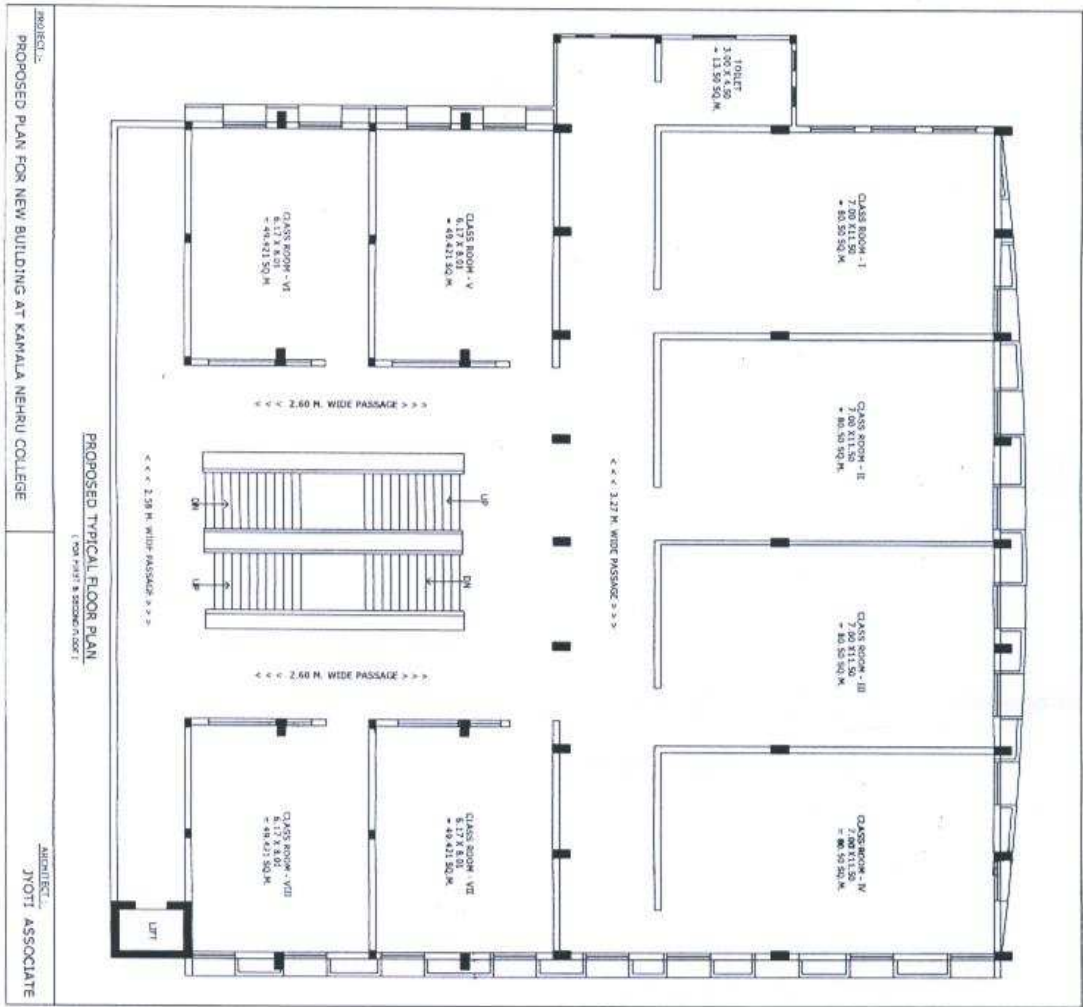




*[Signature]*  
**PRINCIPAL**  
Kamla Nehru Mahavidyalaya  
Sakkardara Chowk, Nagpur

*[Signature]*  
**JYOTI ASSOCIATE**  
DR. P. S. DURMILE AR. A. A. KADRE  
CE / 1154 / 98 CA / 3839 / 95  
192, NANDAWAN CEMENT ROAD, NAGPUR.



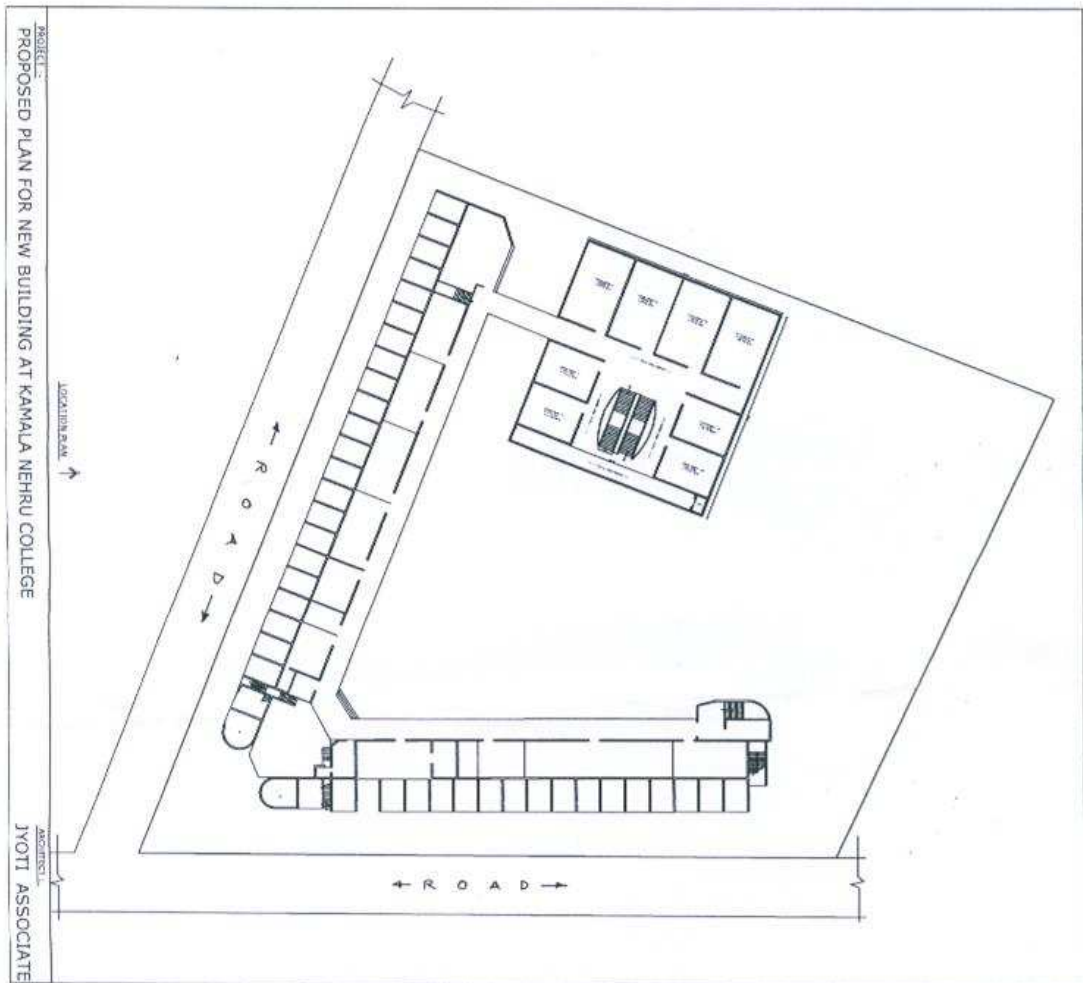


*[Signature]*  
**PRINCIPAL**  
Kamla Nehru Mahavidyalaya  
Sakkardara Chowk, Nagpur

*[Signature]*  
**JYOTI ASSOCIATE**  
DR. P. S. VISHNULALE DR. A. A. KHORE  
CE/1194/08 CA/13539/08  
192, NANDANWAN CEMENT ROAD, NAGPUR.







PROJECT :-  
PROPOSED PLAN FOR NEW BUILDING AT KAMALA NEHRU COLLEGE

ARCHITECT :-  
JYOTI ASSOCIATE

ER. P. S. GURMULE AR. A. A. KAORE  
CE / 1154 / 98 CA / 38399 / 05  
182, NANDANWAN CEMENT ROAD, NAGPUR

*Signature*  
JYOTI ASSOCIATE

*Signature*  
**PRINCIPAL**  
Kamla Nehru Mahavidyalaya  
Sakkardara Chowk, Nagpur







AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
M.C.A. & M.B.A. DEPARTMENT  
BALANCE SHEET  
AS AT 31.03.2013

LIABILITIES		AMOUNT	ASSETS		AMOUNT
<b>DEPOSITS</b>			<b>MOVABLE PROPERTY</b>		
CAUTION MONEY	356,110.00		AS PER SCHEDULE "A"		11,162,698.53
LIBRARY DEPOSIT	900.00	357,010.00			
<b>INTER UNIT BALANCES</b>			<b>INTER UNIT BALANCES</b>		
COMPUTER DEPARTMENT	79,540.00		AMAR SEWA MANDAL	2,087,320.00	
K.N.M GOI SCHOLARSHIP	2,600,000.00	2,679,540.00	KNM POST GRADUATE COLLEGE	104,665.00	
			KNM SR, NON GRANT COLLEGE	3,500.00	
			KNM UGC A/C	23,062.00	2,218,547.00
<b>OTHER LIABILITIES</b>			<b>ADVANCES</b>		
GOI/SC ADHOC SCHOLARSHIP	452,485.00		A.K. GANDHI MARKETING PVT. LTD.		450,000.00
ORIENTAL BANK OF COMMERCE A/ NO. 570	254,155.06				
PULSE SYSTEM	1,504,000.00		<b>CLOSING BALANCE</b>		
FREESHIP	474,406.00		CASH IN HAND	13,000.00	
MO/OBC BACKWARD CLASS SCH. A/C	41,480.00		ALLAHABAD BANK 6285	215,179.00	228,179.00
UNPAID CAUTION MONEY	9,000.00				
UNPAID E.B.C.	22,803.00				
UNPAID FREESHIP	23,525.00				
SCHOLARSHIP	1,058,135.00	3,839,989.06			
<b>INCOME &amp; EXPENDITURE ACCOUNT</b>					
AS PER LAST BALANCE SHEET	8,035,859.31				
LESS : DEFICIT FOR THE YEAR	852,973.84	7,182,885.47			
<b>TOTAL RS.</b>		<b>14,059,424.53</b>	<b>TOTAL RS.</b>		<b>14,059,424.53</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS

C.A. S.K. BAHETI  
PARTNER  
MEM NO. 042711  
FRN 108696W

PLACE:NAGPUR  
DATED: 30/08/2013

AMAR SEWA MANDAL'S  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE ACCOUNT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2013

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>GOVERNMENT GRANT</b>	
SALARY TO STAFF (TEACHING)	29,429,606.00	SALARY GRANT	45,710,586.00
SALARY TO STAFF (NON-TEACHING)	7,369,116.00		
	36,798,722.00	<b>FEES COLLECTED FROM STUDENT</b>	
<b>SIXTH PAY ARREARS</b>	2,838,645.00	AS PER SCHEDULE "C"	1,216,664.00
<b>ADDITIONAL ARREARS</b>	5,523,979.00	<b>FEES COLLECTED ON BEHALF OF N.U</b>	
<b>CONTINGENCIES</b>		AS PER SCHEDULE "D"	709,322.00
AS PER SCHEDULE "G"	2,351,636.44	<b>RECOVERY OF SALARY PAID IN EXCESS</b>	48,374.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		<b>CONCESSIONS</b>	
AS PER SCHEDULE "D"	724,472.00	E.B.C CONCESSION	2,324.00
<b>DEPRECIATION</b>		STC CONCESSION	8,094.00
AS PER ANNEXURE "A"	431,661.43	PRIMARY TEACHER CONCESSION	3,593.00
			14,011.00
		<b>OTHER INCOME</b>	
		SALE OF PROSPECTUS	74,250.00
		MISE, RECEIPTS	4,095.00
		BANK INTEREST	15,372.00
			93,717.00
		<b>E.B.C. CONCESSION</b>	8,680.00
		<b>EX-SERVICEMEN CONCESSION</b>	395.00
		<b>DEFICIT</b>	
		TRANSFERRED TO BALANCE SHEET	867,366.87
<b>TOTAL RS.</b>	<b>48,669,115.87</b>	<b>TOTAL RS.</b>	<b>48,669,115.87</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696 W

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711

PLACE:NAGPUR  
DATED : 29/07/2013

PRINCIPAL



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE - NON GRANT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2013

EXPENDITURE		AMOUNT	INCOME		AMOUNT
SALARY & ALLOWANCES SALARY TO STAFF		3,137,764.00	FEES COLLECTED FROM STUDENTS AS PER SCHEDULE "B"		15,787,153.00
CONTINGENCIES AS PER SCHEDULE "C"		2,006,076.00	OTHER INCOME BANK INTEREST	58,699.00	
FEES PAID TO STUDENTS AS PER SCHEDULE "B"		31,047.00	MISC RECEIPT	4,625.00	
FEES PAID TO UNIVERSITY AS PER SCHEDULE "E"		1,919,736.00	SALE OF PROSPECTUS	118,000.00	181,324.00
MANAGEMENT CONTRIBUTION		315,225.00	FEES COLLECTED ON BEHALF OF NAG.UNI. AS PER SCHEDULE "E"		1,756,858.00
DEPRECIATION AS PER SCHEDULE "A"		405,724.39			
SURPLUS TRANSFERRED TO BALANCE SHEET		9,909,762.61			
<b>TOTAL RS.</b>		<b>17,725,335.00</b>	<b>TOTAL RS.</b>		<b>17,725,335.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS

PRINCIPAL

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711  
FRN 108696W

PLACE:NAGPUR  
DATED: 30/09/2013

AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
U.G.C. GRANT ACCOUNT  
INCOME & EXPENDITURE  
AS AT 31ST MARCH, 2013

EXPENDITURE		AMOUNT	INCOME		AMOUNT
GRANT CAREER ORIENTED			GRANT CAREER ORIENTED		
COMPUTER HARDWARE MAINTANANCE	365250.00		COMPUTER HARDWARE MAINTANANCE	900,000.00	
CHILD CARE & NUTRITION	232582.00		CHILD CARE & NUTRITION	630,000.00	
BANKING	240542.00		BANKING	630,000.00	
COACHING FOR NET	300350.00		COACHING FOR NET	181,250.00	
COLLEGE DEVELOPMENT	168764.00		CONF. SOCIOLOGY	96,600.00	
COLLEGE HIGHER PROP.	241101.00		CONF. ENGLISH	82,350.00	
CONF. SOCIOLOGY	118350.00		CONF. MATHS	140,700.00	
CONF. ENGLISH	99100.00		CONF. LIBRARY : MODERN MGMT TECH	105,000.00	
CONF. MATHS	177200.00		CONF. COMM : PARADIGM SHIFT IN MGMT	75,000.00	
ENTRY IN SERVICES	657765.00		ENTRY IN SERVICES	250,000.00	
EQUAL OPPORTUNITY	97400.00		EQUAL OPPORTUNITY:SHORT TERM COURSE	34,500.00	
REMEDIAL COACHING	575571.00		REMEDIAL COACHING	175,000.00	
MINOR RESEARCH PROJECT	52500.00		DST GRANT	3,950,000.00	
MAJOR RESEARCH PROJECT	1238400.00	4564875.00	MINOR RESEARCH PROJECT	149,420.00	
CONTINGENCIES			MAJOR RESEARCH PROJECT	1,238,400.00	
AUDIT FEES	28,092.00		ADDITIONAL ASSISTANCE GRANT PHASE 1	250,000.00	
BANK CHARGES	337.00		ADDITIONAL ASSISTANCE GRANT PHASE 2	1,250,000.00	10,138,220.00
NETWORK RESOURCES	12,000.00	40,429.00	OTHER INCOME		
RENOVATION OF BUILDING		565,978.00	BANK INTREST		86,982.00
DEPRECIATION AS PER SCHEDULE "A"		1,167,549.32			
SURPLUS TRANSFERRED TO BALANCE SHEET		3,886,370.68			
<b>TOTAL RS.</b>		<b>10,225,202.00</b>	<b>TOTAL RS.</b>		<b>10,225,202.00</b>

ACCOUNTING POLICIES SCHEDULE  
CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696 W

PLACE:NAGPUR  
DATED:-30/09/2013

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
POST GRADUATE COLLEGE  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2013

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>FEES COLLECTED FROM STUDENTS</b>	
SALARY TO STAFF	926,969.00	AS PER SCHEDULE "B"	3,038,238.00
<b>CONTINGENCIES</b>		<b>OTHER INCOME</b>	
AS PER SCHEDULE "C"	1,169,182.00	INTEREST FROM BANK	35,383.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		SALE OF PROSPECTUS	101,000.00
AS PER SCHEDULE "D"	956,971.00	MISE. RECEIPTS	3,685.00
<b>DEPRECIATION</b>		<b>EBC CONCESSION</b>	24,505.00
AS PER SCHEDULE "A"	166,122.30	<b>FEES RECEIVED FOR NAGPUR UNI</b>	
<b>PROVIDENT FUND</b>	61,339.00	AS PER SCHEDULE "D"	1,035,146.00
<b>SURPLUS</b>			
TRANSFERRED TO BALANCE SHEET	957,373.70		
<b>TOTAL RS.</b>	<b>4,237,957.00</b>	<b>TOTAL RS.</b>	<b>4,237,957.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711

PLACE:NAGPUR  
DATED:30/09/2013

PRINCIPAL



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
U.G.C. GRANT ACCOUNT  
INCOME & EXPENDITURE  
AS AT 31ST MARCH, 2014

EXPENDITURE		AMOUNT	INCOME		AMOUNT
COMPUTER HARDWARE MAINTENANCE	117700.00		CONFERENCE LIBRARY	29,000.00	
CHILD CARE & NUTRITION	107532.00		CONFERENCE SOCIOLOGY	21,750.00	
BANKING	108268.00		CONFERENCE MATHS	37,500.00	
COACHING FOR NET	181250.00		NATIONAL CONFERENCE NANO SCIENCE	143,700.00	
COLLEGE DEVELOPMENT XII PLAN (RECURRING)	241880.00		FEMALE FOETICIDE	171,500.00	
CONFERENCE LIBRARY	169262.00		MINOR RESEARCH PROJECT	50,000.00	453,450.00
CONFERENCE COMMERCE	75000.00				
NATIONAL CONFERENCE NANO SCIENCE	147545.00		<b>OTHER INCOME</b>		
ENTRY IN SERVICES	400.00		BANK INTREST		62,401.00
FEMALE FOETICIDE	172716.00		<b>GRANT</b>		4,766,236.00
MINOR RESEARCH PROJECT	146920.00	1468473.00	<b>ACCOUNTS WRITTEN OFF</b>		1,000.00
<b>CONTINGENCIES</b>					
AUDIT FEES	3,370.00				
BANK CHARGES	1,237.00	4,607.00			
<b>DEPRECIATION</b>					
AS PER SCHEDULE "A"		1,543,962.79			
<b>SURPLUS</b>					
TRANSFERRED TO BALANCE SHEET		2,266,044.21			
<b>TOTAL RS.</b>		<b>5,283,087.00</b>	<b>TOTAL RS.</b>		<b>5,283,087.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696N

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711

PLACE: NAGPUR  
DATE: 26/09/2014

PRINCIPAL



AMAR SEWA MANDAL'S  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE (GRANT)  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2014

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>GOVERNMENT GRANT</b>	
SALARY TO STAFF (TEACHING)	53,235,083.00	SALARY GRANT	67,112,437.00
SALARY TO STAFF (NON-TEACHING)	13,984,755.00		
	<b>67,219,838.00</b>	<b>FEES COLLECTED FROM STUDENT</b>	
<b>CONTINGENCIES</b>		AS PER SCHEDULE "E"	5,064,749.00
AS PER SCHEDULE "F"	1,796,970.47		
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		<b>FEES COLLECTED ON BEHALF OF NAGPUR UNIVERSITY</b>	
AS PER SCHEDULE "D"	869,743.00	AS PER SCHEDULE "D"	763,543.00
<b>DEPRECIATION</b>		<b>RECOVERY OF SALARY PAID IN EXCESS</b>	
AS PER ANNEXURE "A"	419,673.99		209,990.00
<b>SURPLUS</b>		<b>CONCESSIONS</b>	
TRANSFERRED TO BALANCE SHEET	3,043,572.54	MADHYAMIK TEACHER CONCESSION	124.00
		PRIMARY TEACHER CONCESSION	870.00
		GIRLS CONCESSION RECEIPTS	6,268.00
		STC CONCESSION	1,235.00
		E.B.C	6,336.00
			<b>14,833.00</b>
		<b>OTHER INCOME</b>	
		SALE OF PROSPECTUS	155,300.00
		MISCELLANEOUS RECEIPTS	6,730.00
		BANK INTEREST	22,216.00
			<b>184,246.00</b>
<b>TOTAL RS.</b>	<b>73,349,798.00</b>	<b>TOTAL RS.</b>	<b>73,349,798.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696 W

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711

PLACE: NAGPUR  
DATED: 26/09/2014

PRINCIPAL

AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE (NON GRANT)  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2014

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARY &amp; ALLOWANCES</b>		<b>FEES COLLECTED FROM STUDENTS</b>	
SALARY TO STAFF	3,443,310.00	AS PER SCHEDULE "B"	15,950,116.00
<b>CONTINGENCIES</b>		<b>OTHER INCOME</b>	
AS PER SCHEDULE "C"	1,974,316.09	BANK INTEREST	51,614.00
<b>FEES PAID TO STUDENTS</b>		MISCELLANEOUS RECEIPT	7,270.00
AS PER SCHEDULE "B"	37,034.00	SALE OF PROSPECTUS	255,800.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>			<b>314,684.00</b>
AS PER SCHEDULE "E"	2,114,080.00	<b>FEES COLLECTED ON BEHALF OF NAG. UNIVERSITY</b>	
<b>MANAGEMENT CONTRIBUTION TO EPF</b>		AS PER SCHEDULE "E"	2,000,746.00
	322,503.00		
<b>DEPRECIATION</b>			
AS PER SCHEDULE "A"	370,566.95		
<b>SURPLUS</b>			
TRANSFERRED TO BALANCE SHEET	10,003,735.96		
<b>TOTAL RS.</b>	<b>18,265,546.00</b>	<b>TOTAL RS.</b>	<b>18,265,546.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711

PLACE: NAGPUR  
DATED: 26/09/2014

PRINCIPAL





**AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
POST GRADUATE COLLEGE  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2014**

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>FEES COLLECTED FROM STUDENTS</b>	
SALARY TO STAFF	1,311,751.00	AS PER SCHEDULE "B"	3,557,506.00
<b>CONTINGENCIES</b>		<b>OTHER INCOME</b>	
AS PER SCHEDULE "C"	691,764.09	INTEREST FROM BANK	21,363.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		SALE OF PROSPECTUS	89,100.00
AS PER SCHEDULE "D"	1,235,532.00	MISCELLANEOUS RECEIPTS	3,422.00
<b>DEPRECIATION</b>		<b>E.B.C. CONCESSION</b>	10,140.00
AS PER SCHEDULE "A"	151,086.27	<b>FEES COLLECTED ON BEHALF OF NAGPUR UNIVERSITY</b>	
<b>MANAGEMENT CONTRIBUTION TO EPF</b>	71,280.00	AS PER SCHEDULE "D"	1,338,098.00
<b>SURPLUS</b>			
TRANSFERRED TO BALANCE SHEET	1,558,215.64		
<b>TOTAL RS.</b>	<b>5,019,629.00</b>	<b>TOTAL RS.</b>	<b>5,019,629.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711

PLACE:NAGPUR  
DATED:26/09/2014

PRINCIPAL

**AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
COMPUTER DEPARTMENT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2014**

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>FEES COLLECTED FROM STUDENTS</b>	
TEACHING AND NON-TEACHING STAFF	772,890.00	AS PER SCHEDULE "B"	1,276,886.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		<b>OTHER INCOME</b>	
AS PER SCHEDULE "C"	504,208.00	BANK INTEREST	17,007.00
<b>MANAGEMENT CONTRIBUTION TO EPF</b>	83,124.00	SALE OF PROSPECTUS	16,000.00
<b>DEPRECIATION</b>		MISCELLANEOUS RECEIPT	300.00
AS PER SCHEDULE "A"	184,132.90	<b>FEES COLLECTED ON BEHALF OF NAGPUR UNIVERSITY</b>	
<b>CONTINGENCIES</b>		AS PER SCHEDULE "C"	517,303.00
AS PER SCHEDULE "D"	22,333.18		
<b>SURPLUS</b>			
TRANSFERRED TO BALANCE SHEET	260,807.92		
<b>TOTAL RS.</b>	<b>1,827,496.00</b>	<b>TOTAL RS.</b>	<b>1,827,496.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM NO. 042711

PLACE: NAGPUR  
DATE: 26/09/2014

PRINCIPAL



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
M.C.A. & M.B.A. DEPARTMENT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31ST MARCH, 2014

EXPENDITURE		AMOUNT	INCOME		AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>			<b>FEEES COLLECTED FROM STUDENTS</b>		<b>8,853,856.00</b>
TEACHING STAFF	4,647,603.00		AS PER SCHEDULE "B"		
NON-TEACHING STAFF	890,805.00	<b>5,538,408.00</b>	<b>OTHER INCOME</b>		
			BANK INTEREST	7,363.00	
<b>MANAGEMENT CONTRIBUTION TO EPF</b>		<b>261,838.00</b>	SALE OF PROSPECTUS	115,300.00	
			MISCELLANEOUS RECEIPT	44,110.00	
<b>DEPRECIATION</b>		<b>1,200,533.65</b>	REGISTRATION FEES FOR ADMISSION	68,700.00	<b>235,473.00</b>
AS PER SCHEDULE "A"					
<b>CONTINGENCIES</b>		<b>1,397,249.00</b>	<b>UNIVERSITY FEES (NET)</b>		<b>49,909.00</b>
AS PER SCHEDULE "C"			AS PER SCHEDULE "D"		
<b>SURPLUS</b>		<b>741,209.35</b>			
TRANSFERRED TO BALANCE SHEET					
<b>TOTAL RS.</b>		<b>9,139,238.00</b>	<b>TOTAL RS.</b>		<b>9,139,238.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A.S.K. BAHETI  
PARTNER  
MEM NO. 042711

PLACE: NAGPUR  
DATED: 26/09/2014

PRINCIPAL



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
U.G.C. GRANT ACCOUNT  
INCOME & EXPENDITURE  
AS AT 31ST MARCH, 2015

EXPENDITURE		AMOUNT	INCOME		AMOUNT
ADAM COURSES CHILD NUTRITION	330,709.00		B. VOC	6,524,565.00	
B. VOC	549,019.00		HISTORY SEMINAR	110,800.00	
HISTORY SEMINAR	129,061.00		M.R.P.	583,220.00	7,218,585.00
M.R.P.	578,220.00	1587009.00	AS PER SCHEDULE "B"		
AS PER SCHEDULE "B"			NEHRU STUDY CENTRE		375,000.00
GANDHI STUDY CENTRE	635,270.00		AS PER SCHEDULE "C"		
NEHRU STUDY CENTRE	773,632.00	1408902.00	P.G.D.H.R.		600,000.00
AS PER SCHEDULE "C"			AS PER SCHEDULE "E"		
IQAC			DST GRANT		563,963.00
AS PER SCHEDULE "D"		104835.00	AS PER SCHEDULE "F"		
P.G.D.H.R.			POLITICAL SCIENCE		153,000.00
AS PER SCHEDULE "E"		503100.00	AS PER SCHEDULE "G"		
DST GRANT			OTHER INCOME		91,550.00
AS PER SCHEDULE "F"		75250.00	BANK INTREST		
POLITICAL SCIENCE			LIBRARY SEMINAR		35,000.00
AS PER SCHEDULE "G"		168602.00	GRANT- ADDITIONAL XI PLAN		1,250,000.00
CONTINGENCIES			GRANT- CDG XI PLAN		655,214.00
AUDIT FEES	4,494.00				
BANK CHARGES	338.00	4,832.00			
DEPRECIATION					
AS PER SCHEDULE "A"		1,999,242.21			
SURPLUS					
TRANSFERRED TO BALANCE SHEET		5,090,539.79			
<b>TOTAL RS.</b>		<b>10,942,312.00</b>	<b>TOTAL RS.</b>		<b>10,942,312.00</b>

AMAR SEWA MANDAL'S  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE ACCOUNT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2015

EXPENDITURE		AMOUNT	INCOME		AMOUNT
SALARIES & ALLOWANCES			GOVERNMENT GRANT		
SALARY TO STAFF (TEACHING)	40,500,425.00		SALARY GRANT		55,170,685.00
SALARY TO STAFF (NON-TEACHING)	14,902,749.00	55,403,174.00	FEES COLLECTED FROM STUDENT		2,869,590.00
CONTINGENCIES			AS PER SCHEDULE "E"		
AS PER SCHEDULE "F"		1,739,438.00	FEES COLLECTED ON BEHALF OF NAGPUR UNIVERSITY		778,449.00
AS PER SCHEDULE "D"			AS PER SCHEDULE "D"		
FEES PAID TO NAGPUR UNIVERSITY		1,077,380.00	OTHER INCOME		
AS PER SCHEDULE "D"			SALE OF PROSPECTUS	204,500.00	
DEPRECIATION			MISCELLANEOUS RECEIPTS	25,824.00	
AS PER ANNEXURE "A"		443,505.00	BANK INTEREST	28,126.00	
SURPLUS			SALARY RECOVERY	15,095.00	273,545.00
TRANSFERRED TO BALANCE SHEET		428,772.00			
<b>TOTAL RS.</b>		<b>59,092,269.00</b>	<b>TOTAL RS.</b>		<b>59,092,269.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696 W

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711

PLACE: NAGPUR  
DATED : 30/07/2015

PRINCIPAL



AMAR SEWA MANDAL KAMLA NEHRU MAHAVIDYALAYA SENIOR COLLEGE - NON GRANT RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDING 31ST MARCH, 2015					
RECEIPTS		AMOUNT	PAYMENTS		AMOUNT
<b>OPENING BALANCE</b>			<b>SALARIES &amp; ALLOWANCES</b>		
CASH IN HAND	31,129.00		BASIC PAY	3,057,715.00	
O.B.C. BANK A/C NO-621 (51392010004140)	290,532.00		D.P	204,668.00	
AXIS BANK (912010037420564)	379,598.91	<b>706,558.91</b>	D.A	288,568.00	
TIRUPATI URBAN CO-OP. BANK LTD.SB/5541	5,299.00		H.R.A	92,104.00	
			C.L.A	11,520.00	
			T.A	38,400.00	<b>3,692,975.00</b>
<b>OTHER INCOME</b>			<b>CONTINGENCIES</b>		
BANK INTEREST	41,928.00		AS PER SCHEDULE "C"		<b>3,649,138.00</b>
MISCELLANEOUS RECEIPT	12,936.00	<b>334,914.00</b>			
SALE OF PROSPECTUS	280,050.00		<b>PURCHASES</b>		
			LIBRARY BOOKS		<b>102,930.00</b>
<b>DEPOSITS</b>			<b>INTER UNIT BALANCES</b>		
CAUTION MONEY	32,130.00		AMAR SEWA MANDAL	13,455,000.00	
LABORATORY DEPOSIT	46,355.00	<b>133,430.00</b>	K.N.M COMPUTER DEPARTMENT	180,000.00	
LIBRARY DEPOSIT	54,945.00		K.N.M. (POST-GRADUATE) COLLEGE	401,000.00	
			K.N.M. SENIOR COLLEGE (GRANT)	30,050.00	
<b>FEES COLLECTED FROM STUDENTS</b>		<b>17,368,378.00</b>	K.N.M. JUNIOR COLLEGE (GRANT)	200.00	
AS PER SCHEDULE "B"			K.N.M. JUNIOR COLLEGE (NON-GRANT)	151,000.00	<b>14,217,250.00</b>
<b>ADVANCE FEES</b>		<b>4,782.00</b>	<b>OTHER ADVANCES</b>		
<b>INTER UNIT BALANCES</b>			PESHWE MADAM	35,900.00	
AMAR SEWA MANDAL	420,000.00		P.M SONTAKKE	5,000.00	
K.N.M COMPUTER DEPARTMENT	100,000.00		SAXENA SIR	5,000.00	
K.N.M. (POST-GRADUATE) COLLEGE	204,500.00		SACHIN BADWAIK	7,000.00	
K.N.M. SENIOR COLLEGE (GRANT)	1,088,199.00	<b>4,222,699.00</b>	S.V.POTDAR	5,000.00	<b>57,900.00</b>
K.N.M. JUNIOR COLLEGE (NON-GRANT)	410,000.00		<b>FEES PAID TO NAG. UNIVERSITY</b>		
K.N.M. GOI SCHOLARSHIP	2,000,000.00		AS PER SCHEDULE"D"		<b>2,826,566.00</b>
<b>FEES COLLECTED ON BEHALF OF NAG. UNIVERSITY</b>		<b>2,509,536.00</b>	<b>FEES REFUNDED TO STUDENTS</b>		
AS PER SCHEDULE "D"			AS PER SCHEDULE"B"		<b>22,794.00</b>
<b>SALARY DEDUCTIONS</b>			<b>MANAGEMENT CONTRIBUTION TO EPF</b>		<b>369,696.00</b>
EMPLOYEES PROVIDENT FUND	757,435.00		<b>SALARY DEDUCTIONS</b>		
PROFESSIONAL TAX	36,325.00	<b>797,844.00</b>	EMPLOYEES PROVIDENT FUND	757,435.00	
INCOME TAX	4,084.00		PROFESSIONAL TAX	68,950.00	
			INCOME TAX	4,084.00	<b>830,469.00</b>
<b>OTHER ADVANCES</b>		<b>2,000.00</b>	<b>CLOSING BALANCE</b>		
SACHIN BADWAIK			CASH IN HAND	48,830.00	
			O.B.C. BANK A/C NO-621 (51392010004140)	302,266.00	
<b>CLOSING BALANCE</b>		<b>45,971.09</b>	TIRUPATI URBAN CO-OP. BANK LTD.SB/5541	5,299.00	<b>356,395.00</b>
AXIS BANK (912010037420564)					
<b>TOTAL RS.</b>		<b>26,126,113.00</b>	<b>TOTAL RS.</b>		<b>26,126,113.00</b>

**CHECKED & FOUND CORRECT FOR RATAN CHANDAK & CO. CHARTERED ACCOUNTANTS**  
**C.A. S.K. BAHETI PARTNER MEM.NO.0-42711 FRN 108696W**  
**PLACE:NAGPUR DATED:30/09/2015**  
**PRINCIPAL**



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
POST GRADUATE COLLEGE  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2015

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>FEES COLLECTED FROM STUDENTS</b>	
SALARY TO STAFF	2,186,923.00	AS PER SCHEDULE "B"	4,448,007.00
<b>CONTINGENCIES</b>		<b>OTHER INCOME</b>	
AS PER SCHEDULE "C"	1,379,589.00	BANK INTEREST	18,041.00
<b>MANAGEMENT CONT TO PF</b>	153,190.00	MISCELLANEOUS RECEIPTS	6,370.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		SALE OF PROSPECTUS	112,500.00
AS PER SCHEDULE "D"	1,385,607.00	<b>E.B.C. CONCESSION</b>	12,365.00
<b>DEPRECIATION</b>		<b>FEES COLLECTED ON BEHALF OF</b>	
AS PER SCHEDULE "A"	136,128.64	<b>NAGPUR UNIVERSITY</b>	
<b>SURPLUS</b>		AS PER SCHEDULE "D"	1,955,520.00
TRANSFERRED TO BALANCE SHEET	1,311,365.36		
<b>TOTAL RS.</b>	<b>6,552,803.00</b>	<b>TOTAL RS.</b>	<b>6,552,803.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711

PLACE:NAGPUR  
DATED:04/08/2015

PRINCIPAL

AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
COMPUTER DEPARTMENT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2015

EXPENDITURE	AMOUNT	INCOME	AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>		<b>FEES COLLECTED FROM STUDENTS</b>	
TEACHING AND NON-TEACHING STAFF	896,286.00	AS PER SCHEDULE "B"	945,233.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>		<b>OTHER INCOME</b>	
AS PER SCHEDULE "C"	573,728.00	BANK INTEREST	10,047.00
<b>MANAGEMENT CONTRIBUTION TO EPF</b>	100,920.00	SALE OF PROSPECTUS	14,800.00
<b>DEPRECIATION</b>		MISCELLANEOUS RECEIPT	14,336.00
AS PER SCHEDULE "A"	165,719.61	<b>FEES COLLECTED ON BEHALF OF NAGPUR UNIVERSITY</b>	
<b>CONTINGENCIES</b>		AS PER SCHEDULE "C"	609,310.00
AS PER SCHEDULE "D"	46,900.26	<b>DEFICIT</b>	
		TRANSFERRED TO BALANCE SHEET	189,827.87
<b>TOTAL RS.</b>	<b>1,783,553.87</b>	<b>TOTAL RS.</b>	<b>1,783,553.87</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS

PLACE:NAGPUR  
07/10/2015

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711  
FRN: 108696W



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
M.C.A. & M.B.A. DEPARTMENT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31.03.2015

EXPENDITURE		AMOUNT	INCOME		AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>			<b>FEES COLLECTED FROM STUDENTS</b>		
TEACHING STAFF	4,724,555.00		AS PER SCHEDULE "B"		7,601,249.00
NON-TEACHING STAFF	875,272.00		<b>OTHER INCOME</b>		
MANAGEMENT CONT TO PF	387,107.00	5,986,934.00	BANK INTEREST	5,469.00	
<b>DEPRECIATION</b>			MISCELLANEOUS RECEIPT	423,356.00	428,825.00
AS PER SCHEDULE "A"		1,109,264.59	<b>FEES COLLECTED ON BEHALF OF UNIVERSITY</b>		
<b>CONTINGENCIES</b>			AS PER SCHEDULE "D"		1,160,058.00
AS PER SCHEDULE "C"		1,515,355.00	<b>DEFICIT</b>		
<b>FEES PAID TO UNIVERSITY</b>			TRANSFERRED TO BALANCE SHEET		399,402.59
AS PER SCHEDULE "D"		977,981.00			
<b>TOTAL RS.</b>		<b>9,589,534.59</b>	<b>TOTAL RS.</b>		<b>9,589,534.59</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS

C.A.S.K. BAHETI  
PARTNER  
MEM NO. 042711  
FRN 108696W

PLACE:NAGPUR  
DATED: 06/08/2015

AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
POST GRADUATE COLLEGE  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2016

EXPENDITURE		AMOUNT	INCOME		AMOUNT
<b>SALARIES &amp; ALLOWANCES</b>			<b>FEES COLLECTED FROM STUDENTS</b>		
SALARY TO STAFF		2,293,094.00	AS PER SCHEDULE "B"		5,273,899.00
<b>CONTINGENCIES</b>			<b>OTHER INCOME</b>		
AS PER SCHEDULE "C"		1,620,365.00	BANK INTEREST	54,146.00	
<b>MANAGEMENT CONT TO PF</b>			MISCELLANEOUS RECEIPTS	8,690.00	
		226,614.00	SALE OF PROSPECTUS	110,600.00	173,436.00
<b>FEES PAID TO NAGPUR UNIVERSITY</b>			<b>FEES COLLECTED ON BEHALF OF</b>		
AS PER SCHEDULE "D"		1,473,980.00	<b>NAGPUR UNIVERSITY</b>		
<b>DEPRECIATION</b>			AS PER SCHEDULE "D"		2,189,820.00
AS PER SCHEDULE "A"		170,809.58			
<b>SURPLUS</b>					
TRANSFERRED TO BALANCE SHEET		1,852,292.42			
<b>TOTAL RS.</b>		<b>7,637,155.00</b>	<b>TOTAL RS.</b>		<b>7,637,155.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711

PLACE:NAGPUR  
DATED: 26/09/2016

PRINCIPAL



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE - NON GRANT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2016

EXPENDITURE	AMOUNT	INCOME	AMOUNT
SALARY & ALLOWANCES SALARY TO STAFF	4,665,357.00	FEES COLLECTED FROM STUDENTS AS PER SCHEDULE "B"	18,086,063.00
CONTINGENCIES AS PER SCHEDULE "C"	3,360,315.00	OTHER INCOME BANK INTEREST 80,533.00 MISC RECEIPT 21,455.00 SALE OF PROSPECTUS 258,700.00	360,688.00
FEES PAID TO STUDENTS AS PER SCHEDULE "B"	142,467.00	FEES COLLECTED ON BEHALF OF NAG. UNIVERSITY AS PER SCHEDULE "D"	3,085,201.00
FEES PAID TO NAGPUR UNIVERSITY AS PER SCHEDULE "D"	3,241,294.00		
DEPRECIATION AS PER SCHEDULE "A"	360,855.33		
MANAGEMENT CONTRIBUTION TO EPF	532,466.00		
SURPLUS TRANSFERRED TO BALANCE SHEET	9,229,197.67		
<b>TOTAL RS.</b>	<b>21,531,952.00</b>	<b>TOTAL RS.</b>	<b>21,531,952.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711  
FRN 108696W

PLACE:NAGPUR  
DATED: 26/09/2016

PRINCIPAL

AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
M.C.A. & M.B.A. DEPARTMENT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31.03.2016

EXPENDITURE	AMOUNT	INCOME	AMOUNT
SALARIES & ALLOWANCES TEACHING STAFF 6,056,181.00 MANAGEMENT CONT TO PF 472,617.00	6,528,798.00	FEES COLLECTED FROM STUDENTS AS PER SCHEDULE "B"	5,394,463.00
SCHOLARSHIP PAID GOI	13,680.00	OTHER INCOME BANK INTEREST 6,918.00 MISCELLANEOUS RECEIPT 150,708.00	157,626.00
DEPRECIATION AS PER SCHEDULE "A"	1,050,529.83	FEES COLLECTED ON BEHALF OF UNIVERSITY AS PER SCHEDULE "D"	926,784.00
CONTINGENCIES AS PER SCHEDULE "C"	2,574,851.00	DEFICIT TRANSFERRED TO BALANCE SHEET	4,766,293.83
FEES PAID TO UNIVERSITY AS PER SCHEDULE "D"	1,077,308.00		
<b>TOTAL RS.</b>	<b>11,245,166.83</b>	<b>TOTAL RS.</b>	<b>11,245,166.83</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS

C.A.S.K. BAHETI  
PARTNER  
MEM NO. 042711  
FRN 108696W

PLACE:NAGPUR  
DATED:26/09/2016

PRINCIPAL



AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
U.G.C. GRANT ACCOUNT  
INCOME & EXPENDITURE  
AS AT 31ST MARCH, 2016

EXPENDITURE		AMOUNT	INCOME		AMOUNT
B. VOC M.R.P. AS PER SCHEDULE "B"	966,147.00	966,147.00	B. VOC M.R.P.	224,054.00	261,344.00
	-		AS PER SCHEDULE "B"	37,290.00	
GANDHI STUDY CENTRE NEHRU STUDY CENTRE AS PER SCHEDULE "C"	575,558.00	957,768.00	NEHRU STUDY CENTRE AS PER SCHEDULE "C"		-
	382,210.00		P.G.D.H.R. AS PER SCHEDULE "E"		-
P.G.D.H.R. AS PER SCHEDULE "D"		445,250.00	OTHER INCOME BANK INTREST		83,806.00
CONTINGENCIES AUDIT FEES BANK CHARGES	4,560.00 44.00	4,604.00	DEFICIT TRANSFERRED TO BALANCE SHEET		3,842,158.88
DEPRECIATION AS PER SCHEDULE "A"		1,813,539.88			
<b>TOTAL RS.</b>		<b>4,187,308.88</b>	<b>TOTAL RS.</b>		<b>4,187,308.88</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN 108696W

C.A. S.K. BAHETI  
PARTNER  
MEM.NO.042711

PLACE:NAGPUR  
DATED: 26/09/2016

PRINCIPAL

AMAR SEWA MANDAL'S  
KAMLA NEHRU MAHAVIDYALAYA  
SENIOR COLLEGE ACCOUNT  
INCOME & EXPENDITURE ACCOUNT  
FOR THE YEAR ENDING 31.03.2016

EXPENDITURE		AMOUNT	INCOME		AMOUNT
SALARIES & ALLOWANCES SALARY TO STAFF (TEACHING)	43,288,375.00	59,372,335.00	GOVERNMENT GRANT SALARY GRANT	58,249,660.00	59,380,064.00
SALARY TO STAFF (NON-TEACHING)	16,083,960.00		D.A ARREARS	1,130,404.00	
CONTINGENCIES AS PER SCHEDULE "F"		1,911,713.00	FEES COLLECTED FROM STUDENT AS PER SCHEDULE "E"		2,883,571.00
FEES PAID TO NAGPUR UNIVERSITY AS PER SCHEDULE "D"		970,503.00	FEES COLLECTED ON BEHALF OF NAGPUR UNIVERSITY AS PER SCHEDULE "D"		741,560.00
DEPRECIATION AS PER ANNEXURE "A"		471,347.00	OTHER INCOME SALE OF PROSPECTUS	159,900.00	308,879.00
SURPLUS TRANSFERRED TO BALANCE SHEET		588,176.00	EBC & OTHER SCHOLARSHIP 2014-15	11,895.00	
			SP	13,460.00	
			TERM FEE	64.00	
			MISCELLANEOUS RECEIPTS	76,550.00	
			BANK INTEREST	24,397.00	
			SALARY RECOVERY	22,613.00	
<b>TOTAL RS.</b>		<b>63,314,074.00</b>	<b>TOTAL RS.</b>		<b>63,314,074.00</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696 W

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711

PLACE:NAGPUR  
DATED: 22/07/2016

PRINCIPAL





AMAR SEWA MANDAL  
KAMLA NEHRU MAHAVIDYALAYA  
COMPUTER DEPARTMENT  
RECEIPTS & PAYMENTS ACCOUNT  
FOR THE YEAR ENDING 31ST MARCH, 2016

RECEIPTS	AMOUNT	PAYMENTS	AMOUNT
<b>OPENING CASH/BANK BALANCES</b>		<b>SALARIES &amp; ALLOWANCES</b>	
CASH IN HAND	10.00	TEACHING AND NON TEACHING STAFF	819,837.00
AXIS BANK- (912010037420535)	34,012.56	<b>SALARY DEDUCTIONS PAID</b>	
ALLAHABAD BANK A/C NO. 9312	8,563.45	PROFESSIONAL TAX	11,275.00
O.B.C. A/C NO. 79 (51392010005590)	105,535.50	EMPLOYEES PROVIDENT FUND	209,962.00
	<b>148,121.51</b>		<b>221,237.00</b>
<b>FEES COLLECTED FROM STUDENTS</b>		<b>MANAGEMENT CONT TO PF</b>	107,349.00
AS PER SCHEDULE "B"	<b>2,068,810.00</b>	<b>FEES PAID TO NAGPUR UNIVERSITY</b>	
<b>DEVELOPMENT FUND RECEIVED</b>	<b>5,147.00</b>	AS PER SCHEDULE "C"	384,234.00
<b>SALARY DEDUCTIONS</b>		<b>CONTINGENCIES</b>	
PROFESSIONAL TAX	11,275.00	AS PER SCHEDULE "D"	25,774.00
EMPLOYEES PROVIDENT FUND	209,962.00	<b>INTER UNIT BALANCES</b>	
	<b>221,237.00</b>	AMAR SEWA MANDAL	566,500.00
<b>FEES COLLECTED ON BEHALF OF NAGPUR UNI.</b>		K.N.M JUNIOR COLLEGE(GRANT)	7,000.00
AS PER SCHEDULE "C"	<b>373,670.00</b>	K.N.M JUNIOR COLLEGE(NON-GRANT)	200.00
<b>OTHER INCOME</b>		K.N.M SENIOR COLLEGE(NON-GRANT)	500,000.00
BANK INTEREST	33,529.00		<b>1,073,700.00</b>
SALE OF PROSPECTUS	11,900.00	<b>CLOSING BALANCES</b>	
MISCELLANEOUS RECEIPT	350.00	CASH IN HAND	12,111.00
	<b>45,779.00</b>	AXIS BANK- (912010037420535)	119,286.56
<b>DEPOSITS</b>		ALLAHABAD BANK A/C NO. 9312	8,563.45
CAUTION MONEY	4,863.00	O.B.C. A/C NO. 79 (51392010005590)	105,535.50
LABORATORY DEPOSIT	4,900.00		<b>245,496.51</b>
LIBRARY DEPOSIT	5,100.00		
	<b>14,863.00</b>		
<b>TOTAL RS.</b>	<b>2,877,627.51</b>	<b>TOTAL RS.</b>	<b>2,877,627.51</b>

CHECKED & FOUND CORRECT  
FOR RATAN CHANDAK & CO.  
CHARTERED ACCOUNTANTS  
FRN: 108696W

PLACE: NAGPUR  
DATED: -26/09/2016

C.A. S.K. BAHETI  
PARTNER  
MEM NO: 042711

