



AMAR SEWA MANDAL'S (Regd. No. N/220/78 NGP) F-2299 (D)

KAMLA NEHRU MAHAVIDYALAYA

(ARTS, COMMERCE & SCIENCE)

SAKHARDARA CHOWK, NAGPUR-440 024 • Ph: (0712) 2747853, 2747854, 2742308, 2749784
Fax: (0712) 2747853 • e-mail: kncnug@rediffmail.com • website: www.kamlanehrucollege.ac.in



DR. (Smt.) SUHASINI G. WANJARI President **Adv. ABHIJIT G. WANJARI Secretary** **DR. DILIP S. BADWAIK Principal**

2.3.2 Student-centric methods, such as experiential learning, participative learning and Problem-solving methodologies are used for enhancing learning experiences.

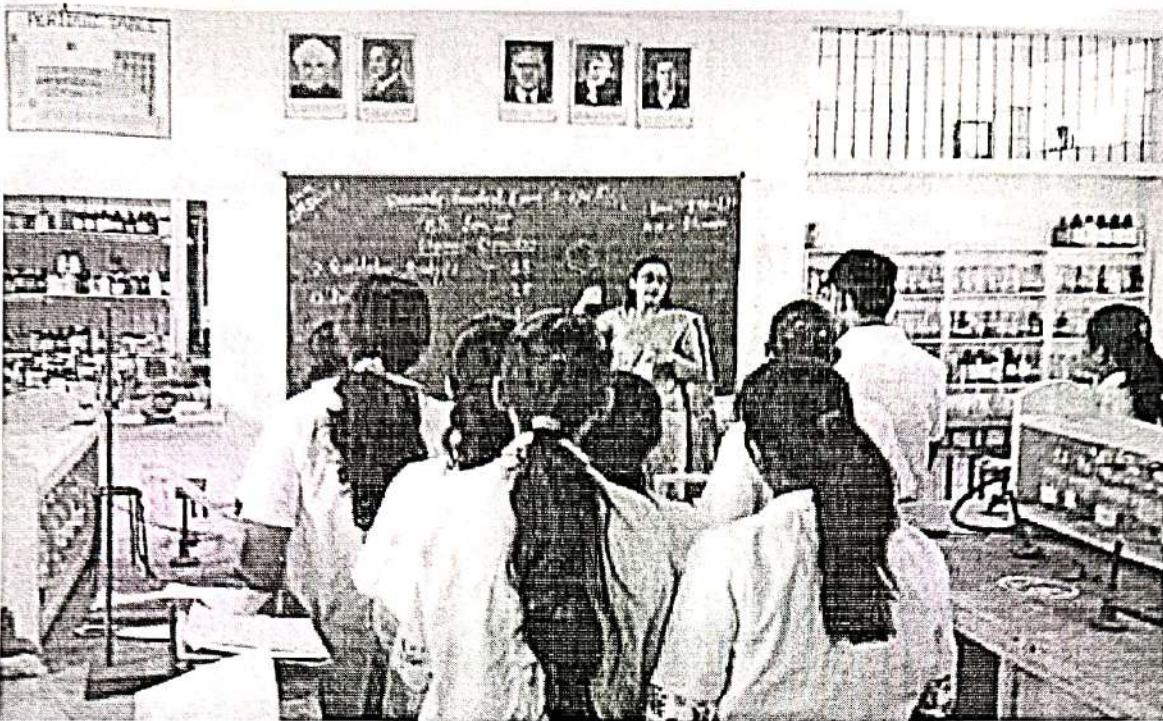
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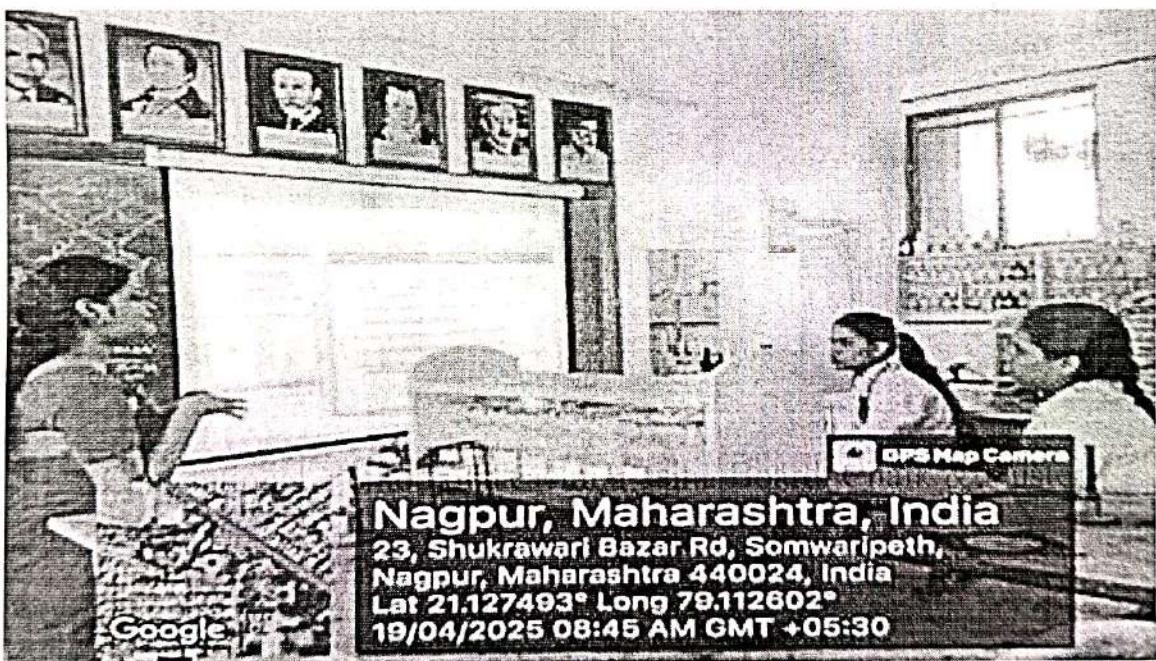


Our institution always encourages student-centric learning through various methods such as brain storming, group discussions, quiz competitions, presentations and project work in participative learning and problem-solving methodologies. All the faculty members have conducted various student centric activities during this assessment period. Apart from 'Offline Lecture' method, teachers were more focused on the 'conceptual clarity' of their subject through different activities based on ICT. Experiential Learning: All the faculties of college conducted various experiential learning activities and students learn their topics through them. Students of all post graduate departments undertook research projects in semester IV for the partial fulfilment of their PG degree. Study Tours and Industrial Visits were organised for Department of Science, Humanities, Commerce and Management as per the requires of curriculum provisions. Participative Learning: In our college, most of the students participate actively in each and every departmental activity. Most of the Undergraduate departments conducted student's seminar and workshops for overall development of the students around the year. Problem-Solving Method : While teaching in the class, students participate in the learning process and experience the things in practical. Faculties of our college encourage students to lead their learning by solving their problem to the satisfaction. For this, almost all the departments of our college give assignments and conducts unit tests of the students. Moreover, some of the departments have organized Online (Webinar) and offline Guest Lecture and arranged Problem solving session by Mentors. All departments have arranged Counselling sessions of students in order to guide them for future endeavour. Use of ICT tools : Faculty members of Kamla Nehru Mahavidyalaya have efficiently used ICT tools for better delivery of subject knowledge to the students. They have used various ICT based teaching learning and evaluation methods during the session. The learners can see lecture recordings, videos, presentations, notes, can join WhatsApp groups for discussions and debates; and can even upload their assignments, projects in this Learning Management System. College provided various online platforms to teaching staff and students for effective teaching- learning and Evaluation process. Teachers used online platforms regularly like You-Tube, E- mails, What's App group, Zoom, Microsoft Teams, Google Meet and Google classrooms. College website is used as a platforms to teach, communicate, provide material and syllabus, make announcements, conduct tests, upload assignments, make presentations, address queries and share information. The teachers are effectively using ICT enabled tools like laptops, headphones, internet, video-lectures, audio-lectures, PPT presentations, contents' etc. Thus, the ICT tools help students to assess their own knowledge and potential.





Conventional method of Teaching using Board, Chalk & Duster



Use of ICT in Teaching-Learning



Surfactan

| Category | Chemical Structure | Main Application |
|--------------|---|---------------------------------------|
| Anionic | -SO ₃ ⁻ Na | Solvent, detergent |
| | -OSO ₃ ⁻ Na | Detergents, personal care products |
| | -COO ⁻ Na | Cosmeticals, emulsifiers |
| Cationic | -CH ₃ NH ₂ | Liquid detergents, soaps, emulsifiers |
| | -CH ₃ NH ₂ | Bactericidal |
| Zwitterionic | -NH ₃ ⁺ COO ⁻ | Shampoo, cosmetics |
| | -N+(CH ₃) ₃ SO ₃ ⁻ | Hydrophobic |
| Nonionic | -CH ₂ CH ₂ OH | Detergents, emulsifiers |
| | -CH ₂ CH ₂ OR | Emulsifiers |

Surfactant Properties

Screenshot copied to clipboard
Automatically saved to screenshots folder

Using Power Point Presentation

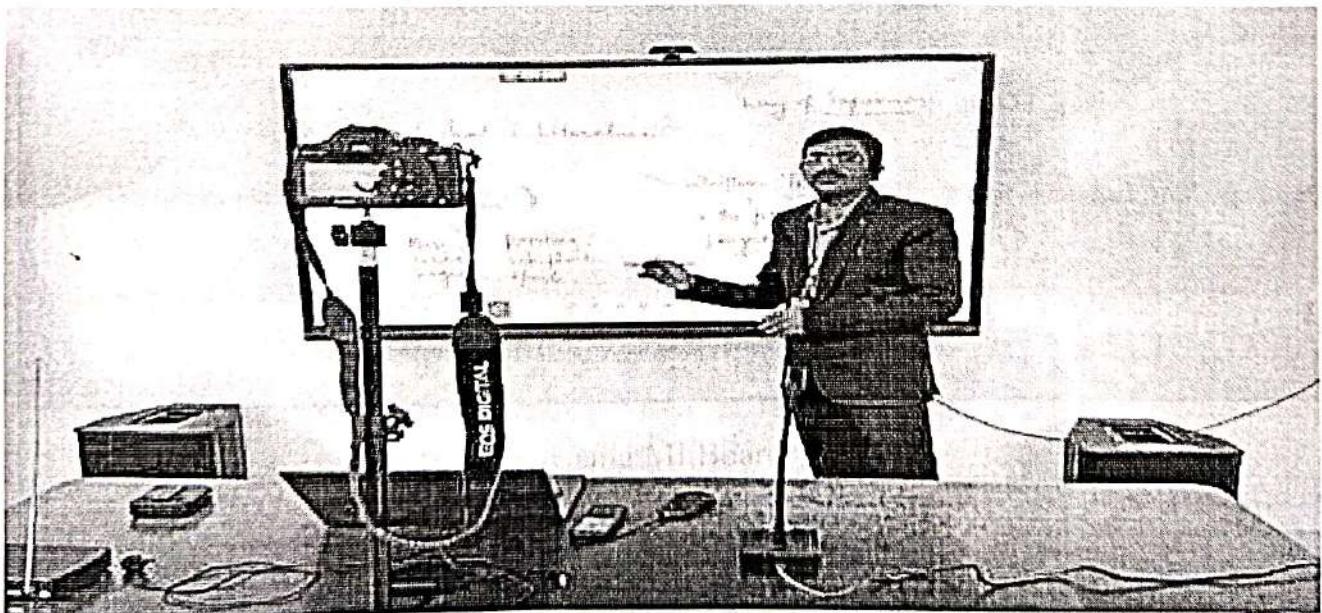


Using LCD Projector & Screen



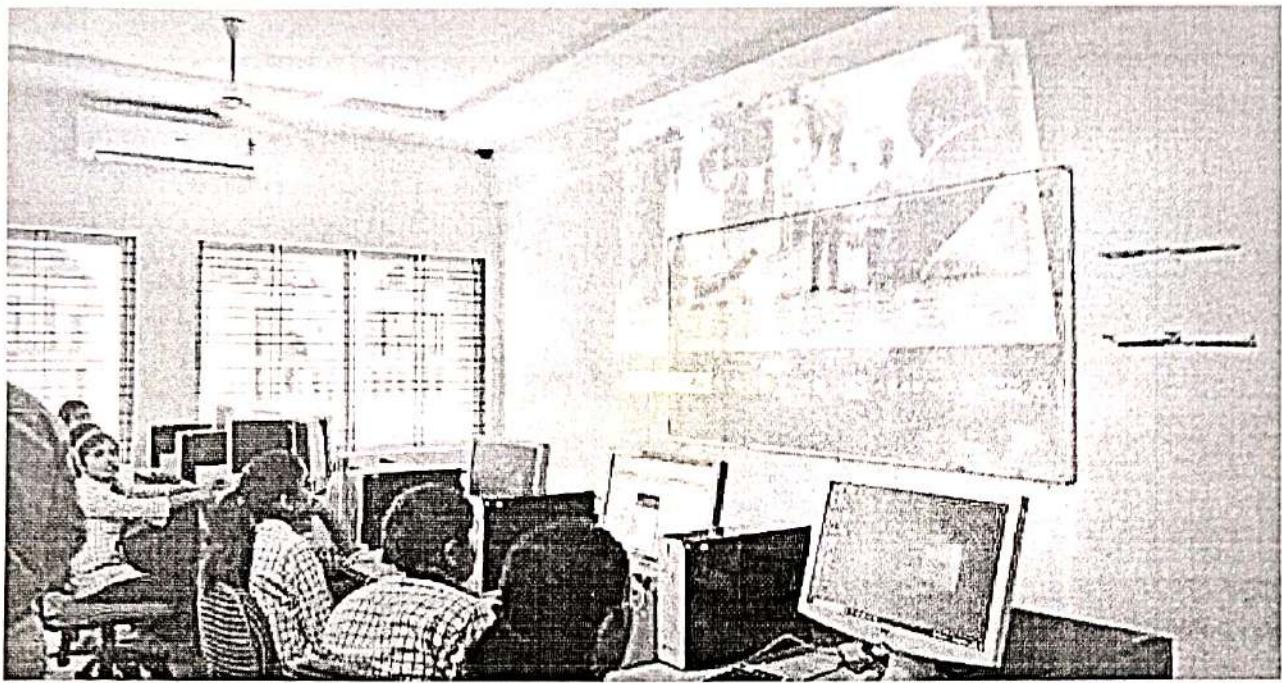


Using MI Board



Using Interactive Screen





Practice Sessions in Computer Lab

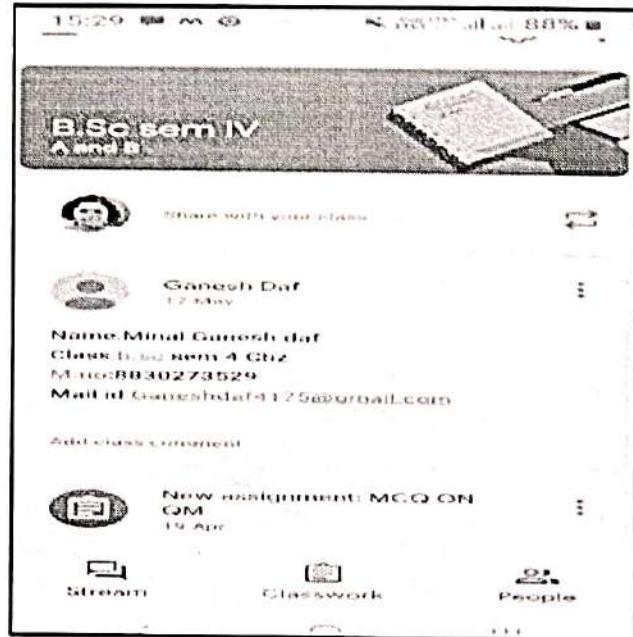


- LINK FOR GOOGLE CLASSROOM (Dr. Mrs. S. M. Gadegone)
- LINK FOR GOOGLE CLASSROOM (Dr. Ms. R. R. Dubey)

<https://drive.google.com/drive/folders/0BzvMCxXK7qqofJUtT2hFdDhmaEVuYzYZVRmQVV2UmdSWjBNUTQtYmlNd0sxUj1QzA0TjA?resourcekey=00nTeT0j9pPxZ6jeBe8sp4g&usp=sharinghttps://youtu.be/EWnouo6e1rs>

- Your Teacher Rashmee Dubey has invited you to join Classroom:

B.Sc. Sem V-Subject: Chemistry, Organic Chemistry, Organic Chemistry Classroom ID: 7434752496 Enroll to the classroom on Teachmint Link:
<https://www.teachmint.com/enroll/7434752496/6125742616161254262212>



ONLINE CLASSES THROUGH USE OF TEACHMINT, GOOGLE

Experiential learning supports students in applying their knowledge and understanding to real-world problems in a formal guided manner. Technical education is always justified with the help of practical knowledge. In our institute, the students of their respective departments are given exposure in laboratories and workshop to acquire practical knowledge. In our institute "Kamla Nehru Mahavidyalaya, Nagpur" there are total 28 laboratories for teaching learning as mentioned below.

| Sr.No | Name of the Department | Total No of laboratory |
|-------|------------------------|------------------------|
| 1 | Chemistry | 03 |
| 2 | Physics | 02 |
| 3 | Cosmetic Technology | 03 |
| 4 | Electronics | 03 |
| 5 | Microbiology | 02 |
| 6 | Biotechnology | 02 |
| 7 | Botany | 02 |
| 8 | Zoology | 02 |
| 9 | Computer Science | 05 |
| 10 | Biochemistry | 02 |
| | Environmental Science | 01 |
| 11 | Language Laboratory | 01 |

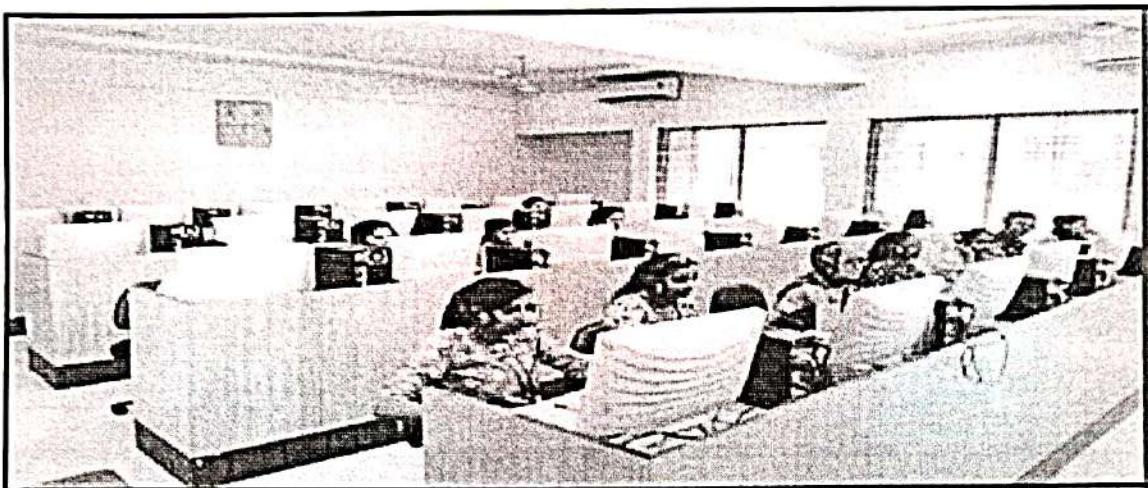


EXPERIENTIAL LEARNING

In our institute, the respective departments scheduled industrial visit / site visit / field visit for students to provide practical approach towards learning through interaction, working practices etc. and hence give a perfect reality check to the students. Industrial visits provide an opportunity to learn about different industries, their operations, and the types of work available, helping students make informed career choices. Industrial visits can provide students with awareness of new technologies and advancements in their field of study.



INTERNSHIP UNDERTAKEN BY THE STUDENTS



USING LANGUAGE LABORATORY FACILITY

The core idea of Project Based Learning is to connect student's experiences with college life and to provoke serious thinking as students acquire new knowledge. Project work is a hands-on activity that helps students learn by doing. Experiential learning through project work is a teaching method that encourages students to take initiative, make decisions and learn from their experiences. In our institute, as per the syllabus and scheme of affiliated university and also it is a part of curriculum, departments allotted various types of mini project and major project to group of students under the guidance of respective faculties.

**Amar Sewa Mandal
Kamla Nehru Mahavidyalaya, Nagpur**

Dissertation report
On
"Bioinformatic Analysis of sfp gene for Lipopeptide Biosurfactant in *Zooglea subtilis"*

Submitted to
Babasaheb Tukaram National Nagpur University
For partial fulfillment of Master of Science (Biotechnology)

Submitted by
S. Gajendra Premchand Dholakar
M.Sc. II Year Biotechnology

Under the Guidance of
Dr. Savita Tiwari
Assistant Professor, Department of Biotechnology

Head of the Department
Dr. Sudhakar R. Moghe
Department of Biotechnology
Kamla Nehru Mahavidyalaya

Session 2023-2024





Omkar Seva Mandal



Kanya Nehru Mahavidyalaya, Nagpur

Dissertation report

On

"Molecular Analysis of Stp gene for Lipopeptide Biosynthesis in *Zooglea subtilis*"

Submitted to

Rashtrasant Tukadoji Maharaj Nagpur University
For partial fulfillment of Master of Science (Biotechnology)

Submitted by

Mrs. Gayatri Premnath Deolur
M.Sc. II year Biotechnology

Under the Guidance of

Dr. Savita Tiwari
Assistant Professor, Department of Biotechnology

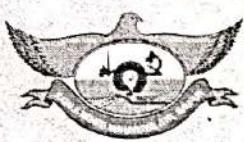
Head of the Department

Dr. Sandhya R. Moghe
Department of Biotechnology
Kanya Nehru Mahavidyalaya

Session 2023-2024

PROJECTS UNDERTAKEN BY STUDENTS





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Grade
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KNM/_____

Date : _____ / _____ / _____

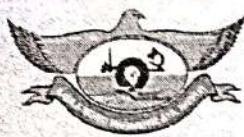
Department- MBA

Title of Case Studies

| Year | Sem | Title | Incharge |
|----------|-----|---|-------------------------|
| 2023-24 | II | "Marketing Case Study: FreshFizz Beverages – Rebranding a Legacy Brand" | Dr. Neha Bhandari |
| 2022- 23 | II | "Talent Retention at Zenith Technologies" | Dr. Neha Bhandari |
| 2021-22 | II | " Case study on How a European shipping company used HR analytics to reduce absenteeism through job redesign" | Prof. Kushal M. Dharmik |
| 2020-21 | II | CRED – Building a Fintech Brand through Creative Marketing | Prof. Kushal M. Dharmik |
| 2019-20 | II | Coca-Cola Marketing Strategy: A Case Study | Prof. Kushal M. Dharmik |



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Date : _____ / _____ / _____

Department- MBA

Case Study

In our institute, we are following case studies in an innovative way and encouraging students for participation. Case studies are presentation of management principles and theories, through analysis and design

(Sample Copy)

| Sr. No. | Content |
|---------|--|
| 01 | Title of Case Studies |
| 02 | Notice for Case study (Sample Copy: 2023 – 24) “Marketing Case Study: FreshFizz Beverages – Rebranding a Legacy Brand” |
| 03 | Description of Case Study |
| 04 | Report on Case Study |
| 05 | Attendance Sheet |
| 06 | Notice for Case study (Sample Copy:- 2022- 23) "Talent Retention at Zenith Technologies" |
| 07 | Description of Case Study |
| 08 | Report on Case Study |
| 09 | Attendance Sheet |


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KNM/ _____ Date : _____ / _____ / _____

Marketing Case Study: FreshFizz Beverages – Rebranding a Legacy Brand

Background:

FreshFizz Beverages, a well-known Indian soft drink company, dominated the market with its popular sugary soda products in the early 2010s. However, with the growing trend of health consciousness among consumers, its sales began to decline sharply.

To regain lost ground, the company appointed a new Chief Marketing Officer, Ms. Anjali Mehta. She implemented a **complete rebranding strategy**, which included:

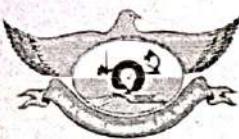
- Launching **sugar-free and organic** drink variants
- Redesigning packaging to look modern, minimal, and health-friendly
- Starting a **#FreshLife** social media campaign promoting fitness, wellness, and active lifestyles
- Partnering with fitness influencers and sponsoring health-related events (like marathons)

Though public perception of the brand improved, **sales remained lower than projected**. Many loyal customers didn't respond to the new offerings, and competitors in the health beverage space like PaperBoat and Raw Pressery remained strong.

Questions :

1. What are the core marketing challenges FreshFizz is facing in its rebranding efforts?
2. How effective do you think the current rebranding strategy is? What is missing or needs improvement?
3. Suggest digital marketing or experiential marketing strategies that could help FreshFizz increase engagement and boost sales.
4. How can FreshFizz balance between retaining loyal customers and attracting health-conscious new consumers?

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Date : _____ / _____ / _____

Case Study: "Talent Retention at Zenith Technologies"



Kamla Nehru Mahavidyalaya, Nagpur

I-Unit/II-Unit/I-Term/II-Term Examination 20 -20

Class: MBA 1st year sem _____

Roll No. (In Figures) 31

Section _____

Roll No. (In Words) Thirty one

Date 20/06/23

Subject Management Case Analysis

Examiner's Signature Ranjita

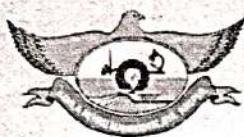
Invigilator's Signature 69 (M)

(Ques:-1 (A))

She loved her new workplace and was highly motivated to perform. Her managers were delighted with her high engagement, professionalism and dedication. She worked long hours to ensure that her staff was properly managed that her deadlines were met and that her team's work was nothing short of outstanding. In the first two months, she single-handedly organized a large conference - marketing and organizing all the details of the conference & filling it to capacity. It was a remarkable feat.

In the last weeks prior to the event however, her stress level attained such high level that she suffered from severe burnout symptoms which included feeling physically and emotionally exhausted, depressed and suffering of sleep problem. She was inclined to take time off work. She never attended the conference and

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needed a long recovery before she reached her earlier performance and well-being levels. Her turnover symptoms has resulted from the long term stress and the depletion of her resources over time.

② Factors influence employee Turnover Intention.

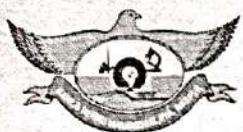
• Job Satisfaction: Perhaps the most significant factor in employee turnover is job satisfaction.

- colleague Relations
- communication
- organization commitment
- organizational justice
- organizational politics
- Organization Reputation

③ HR department problem finding a solution

A high employee turnover rate the rate at which employee leave a business can affect the bottom line of business can be a negative effect on small business can be particular

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Marketing Case Study: FreshFizz Beverages – Rebranding a Legacy Brand



Kamla Nehru Mahavidyalaya, Nagpur

I-Unit-II-Unit-Term-II-Term Examination 2023-2024

Name - Shweta S. Yetne

Class MCA - Term 2PM

Roll No. (In Figures) 2 3 9 5 6 8

Section _____

Date 20/05/2024

Roll No. (In Words) Two lakhs Thirty nine thousand five hundred sixty eight.

Subject MCA

Examiner's Signature _____

Invigilator's Signature _____

Que No. 1

Ans → Creating a modern Image

The brand must look fresh and appealing to younger consumers.

This includes updating packaging. This includes updating packages, advertising, and social media presence.

Differentiate in a crowded market

The beverage market has many competitors. Fresh fizz needs to clearly show how its new version is better or different.

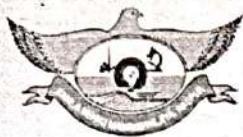
Internal resistance

Some employees or stakeholders may resist the change due to emotional attachment or fear of failure.

Budget constraints

Rebranding involves high cost and the company might have a limited budget.

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Question:

Ans → The current Rebranding strategy of Fresh Fizz is partially effective from the launching from the sugar-free and organic drinks variants.

Work branding :

The Launching strategy in sugar-free and organic drink variants To be useful for the people in the sugar free drink for the health improvement

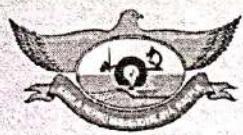
Redesigning packaging to look modern minimal, and health-friendly :

The attracts peoples for the extra product purchasing buying for the effective in the rebranding strategy.

Starting a fresh life social media campaign promoting fitness, wellness, and active lifestyles :

Through public perception of the brand improved, sales remained lower than projected. Many loyal customers didn't respond to the new offerings, and competitors in the health beverage space like paper boat and raw preservative remain strong.

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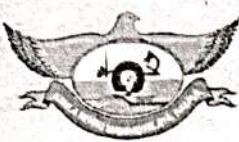
"Marketing Case Study: FreshFizz Beverages – Rebranding a Legacy Brand"

RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY
SUBJECT:- MANAGEMENT CASE ANALYTICS (EXAMINATION OF SUMMER, 2023)

Attendance Sheet
Faculty - Management Examination-MBA Date - 2023 May 2023
Name - Kamla Nehru Mahavidyalaya Sakkardara, Nagpur

| Sr No. | Name of student | Mobile No. | Signature |
|--------|----------------------|-------------|--------------------|
| 21. | Rajay G. Dardasai | 9284651545 | _____ Rajay |
| 22. | Parth S. Rewatkar | 9657259323 | _____ Parth |
| 23. | Daribaan Bhimani | 7823098917 | _____ Daribaan |
| 24. | Vaidhee V. Ganeshwar | 9207477522 | _____ Vaidhee |
| 25. | Kishan B. Deshmukh | 7558333312 | _____ Kishan |
| 26. | Nikhil S. Meshram | 93094499205 | _____ Nikhil |
| 27. | Riya S. Baig | 9689154077 | _____ Riya |
| 28. | Renuka S. Patankar | 9146621574 | _____ Renuka |
| 29. | Anchal M. Jethav | 8317232446 | _____ Anchal |
| 30. | Pooja P. Chalke | 7499045835 | _____ Pooja |
| 31. | Pragati D. Bonai | 7507689269 | _____ Pragati |
| 32. | Sugandh V. Norange | 9035110092 | _____ Sugandh |
| 33. | Suhin R. Chahal | 8806889353 | _____ Suhin |
| 34. | Gaurav A. Tupe | 97633197974 | _____ Gaurav |
| 35. | Anchal A. Bawade | 8432386293 | _____ Anchal |
| 36. | Kartiksha K. Meshram | 9022633093 | _____ Kartiksha |
| 37. | Tiya D. Sejpal | 9823639945 | _____ Tiya |
| 38. | Princi A. Dubey | 7796589123 | _____ Princi |
| 39. | Gopalsai D. Bantgane | 8025066576 | _____ Gopalsai |
| 40. | Mayur R. Dikwale | 9118377694 | _____ Mayur |
| 41. | Sneha P. Bhongade | 9867622580 | _____ Sneha |

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DR. (Smt.) SUHASINI G. WANJARI President Adv. ABHIJIT G. WANJARI Secretary DR. DILIP S. BADWAIK Principal

KNM/_____

Date : _____ / _____ / _____

Case Study: "Talent Retention at Zenith Technologies"

RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY
SUBJECT: MANAGEMENT CASE ANALYTICS (EXAMINATION OF SEMESTER, 2024)

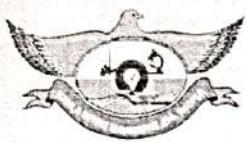
Attendance Sheet

Faculty - Management Examination: 2024 Date: 20th May 2024

Name: Kamla Nehru Mahavidyalaya Sakkardara, Nagpur

| Sr. No. | Name of student | Mobile No. | Signature |
|---------|------------------------|------------|-----------|
| 1. | Vaishnavi J. Bhoyar | 9666296198 | |
| 2. | Nikha R. Matule | 9067074070 | |
| 3. | Gayantri G. Chabade | 9356719059 | |
| 4. | Shweta J. Yerne | 1383843355 | |
| 5. | Aditi C. Dehere | 8626030733 | |
| 6. | Fatima J. Adikone | 9326565929 | |
| 7. | Minalika R. Vithey | 7620418879 | |
| 8. | Sayali V. Muneshwar | 9356990230 | |
| 9. | Diksha R. Bhandarkar | 9499439601 | |
| 10. | Prachi C. Ramchekre | 8205288273 | |
| 11. | Purni D. Bilkurde | 8367970217 | |
| 12. | Nikita D. Berkar | 8668932893 | |
| 13. | Gauri V. Yeole | 7887975170 | |
| 14. | Shinde M. Gajghule | 9356240595 | |
| 15. | Sangram S. Mehandre | 7269998053 | |
| 16. | Shankit P. Doneje | 9834262110 | |
| 17. | Piyush A. Jonare | 7219288410 | |
| 18. | Kalyani E. Dhawad | 9028885160 | |
| 19. | Mayur D. Kothane | 8857031805 | |
| 20. | Gangram R. Chaudashwar | 9604940453 | |

PRINCIPAL
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur



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(ARTS, COMMERCE & SCIENCE)

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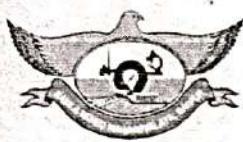
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Date : _____ / _____ / _____

Case Study Photo




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Case Study: "Talent Retention at Zenith Technologies"

Date : _____ / _____ / _____

Background:

Zenith Technologies is a mid-sized IT services company based in Pune, India, employing around 1,000 professionals. Over the past three years, the company has been experiencing a high employee turnover rate, particularly among software developers with 2–5 years of experience. An internal survey revealed that many employees were dissatisfied with the lack of career advancement opportunities, limited training programs, and work-life imbalance.

The HR department, led by Ms. Radhika Sharma, introduced several new initiatives to tackle the problem, including:

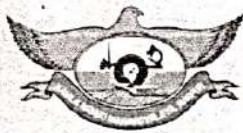
- A structured **career path framework** with promotion criteria
- Regular **technical and soft skills training programs**
- A **flexible work policy**, including remote work options and flexible hours
- A **mentorship program** pairing junior employees with senior staff

After one year, the HR team conducted a follow-up survey. Results showed slight improvements in job satisfaction but no significant drop in attrition rates. Radhika now faces pressure from top management to demonstrate tangible results.

Questions:

1. Identify the key HR issues faced by Zenith Technologies. What HR strategies would you recommend to further reduce employee turnover?
2. Evaluate the effectiveness of the current HR initiatives. What could be improved or implemented differently?
3. How important is the role of employee engagement in talent retention, and what specific steps can Zenith take to improve engagement?
4. If you were the HR manager, how would you measure the success of retention strategies over time?


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KNM/_____

Date : _____ / _____ / _____

Date : 15/05/2024

NOTICE

MBA Semester II – MCA (Management Case Analysis) Examination

All MBA Semester II students are hereby informed that the examination for the subject **MCA – Management Case Analysis** will be conducted as per the following schedule:

Date: 20th May 2024 (Monday)

Time: 9:30 AM onwards

Exam Duration: 1 Hr

❖ Note:

1. Uniform is compulsory for all students appearing for the examination.
2. Students must report to the examination hall 30 minutes prior to the scheduled time.
3. Carry valid ID cards without fail.
4. Strict compliance with examination rules is mandatory.

Attendance is compulsory for all.

Kushal Dharmik

HOD, MBA, KNM

HOD

MBA Deptt.

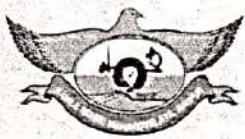
(MCA & MBA Programme)

KAMLA NEHRU MAHAVIDYALAYA
SAKKARDARA SQUARE, NAGPUR.

Dr. Dilip Badwaik

Principal ,KNM

PRINCIPAL
Kamla Nehru Mahavidyalaya
Sakkardara Chowk, Nagpur



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KNM/_____

Date : _____ / _____ / _____

Date : 10/04/2023

NOTICE

MBA Semester II – MCA (Management Case Analysis) Examination

All MBA Semester II students are hereby informed that the examination for the subject **MCA – Management Case Analysis** will be conducted as per the following schedule:

Date: 14th April 2023 (Friday)

Time: 9:30 AM onwards

Exam Duration: 1 Hr

❖ Note:

5. Uniform is compulsory for all students appearing for the examination.
6. Students must report to the examination hall 30 minutes prior to the scheduled time.
7. Carry valid ID cards without fail.
8. Strict compliance with examination rules is mandatory.

Attendance is compulsory for all.

Kushal Dharmik

HOD, MBA, KNM

HOD

MBA Deptt.

(MCA & MBA Programme)

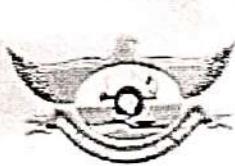
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Dr. Dilip Badwaik

Principal ,KNM

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Participative Learning

Technical Activity Student's Seminar or Power Point Presentation, Group Discussions, Debates and Technical Quiz:

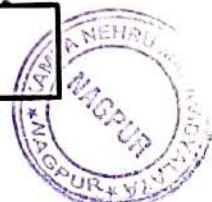
In our institute Kamla Nehru Mahavidyalaya, Nagpur" the students are made to participate in different brainstorming activities. The students are given various opportunities to showcase their talent, communication and technical competency through brainstorming sessions and technical activities like student's seminar, group discussions, debates, technical quiz etc. As the students come with different opinions and thought processes, the learning process gets justified in the argumental way:



Group discussion on Union Budget



Group discussion on Teratogenesis





Students of Zoology collected Cocoon of silk Worm

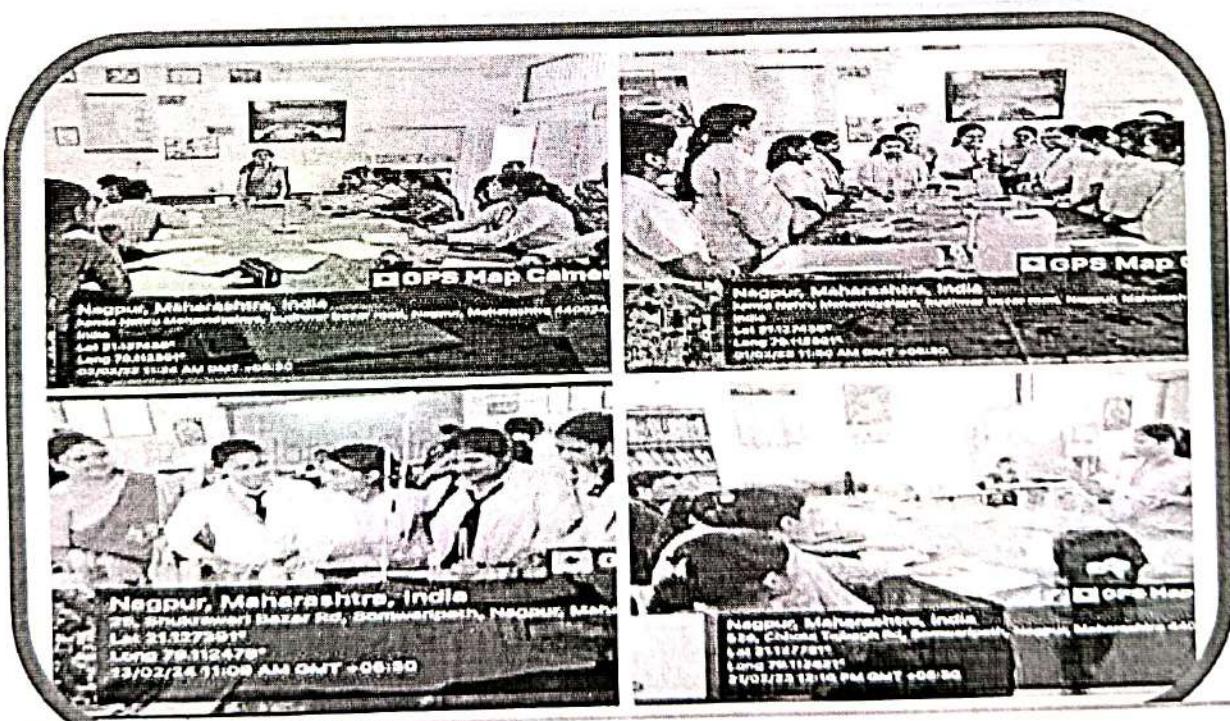


Students of Chemistry are preparing Biofertilizers





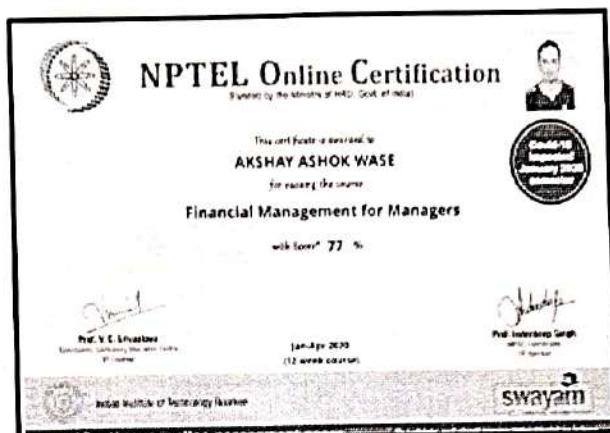
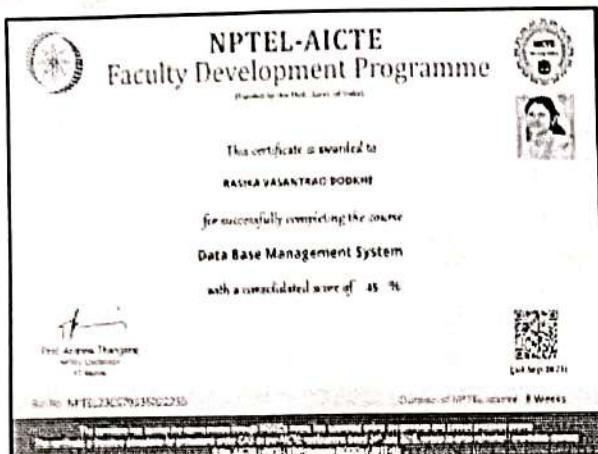
Students of Home-Economics are doing painting on glass bottles



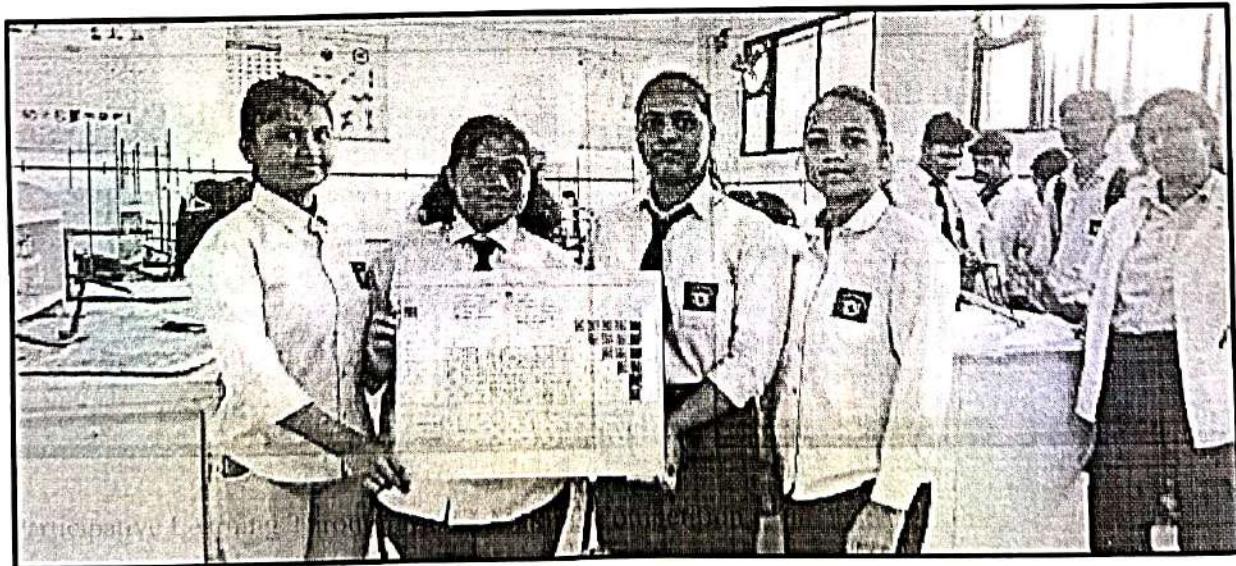
Students of Environmental Science participated in Certificate Course



Participative Learning through NPTEL Course



Participative Learning Through Model Making Competition





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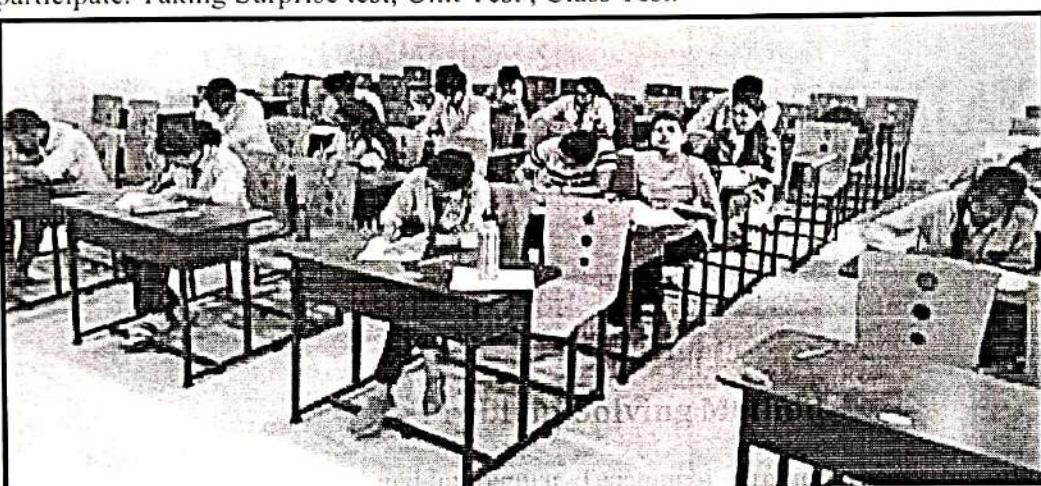
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Adv. ABHILIT G. WANJARI Secretary

DR. DILIP S. BADWAIK Principal

Problem-Solving Method

Problem Solving is incorporated in regular Teaching Learning Process by giving them the Assignments, Organizing some concept based test such as Chemistry Talent Search Examination, where maximum students participate. Taking Surprise test, Unit Test , Class Test.



Talent Retention at Zenith Technology: A Case study

INTERNATIONAL WEBINAR
EMPOWERING DIVERSITY IN SCIENCE

Organized by Department of Chemistry, Kamla Nehru Mahavidyalaya, Nagpur
in association with International Union of Pure & Applied Chemistry (IUPAC), Global Women's Network
in Collaboration with International Union of Pure & Applied Chemistry (IUPAC), Global Women's Network

DATE: 05 February 2021

INAUGURAL SESSION (3:00 to 3:25 pm)

| WELCOMING ADDRESS | OPENING ADDRESS | KEYNOTE ADDRESS | CLOSING ADDRESS |
|-------------------|-----------------|-----------------|-----------------|
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |

VOTE OF THANKS

| Speaker-I | Speaker-II | Speaker-III | Speaker-IV |
|----------------|----------------|----------------|----------------|
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |
| Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil | Dr. Uday Patil |

Empowering Diversity in Science: Webinar



Subject - Biochemistry
 B.Sc. Sem. (I). Session 2022-23
 Paper-II
 Biophysical techniques.
 Enzyme kinetics.

Explain principle & techniques of application UV & visible spectrometry 2P

→ Principle of UV-visible Spectroscopy

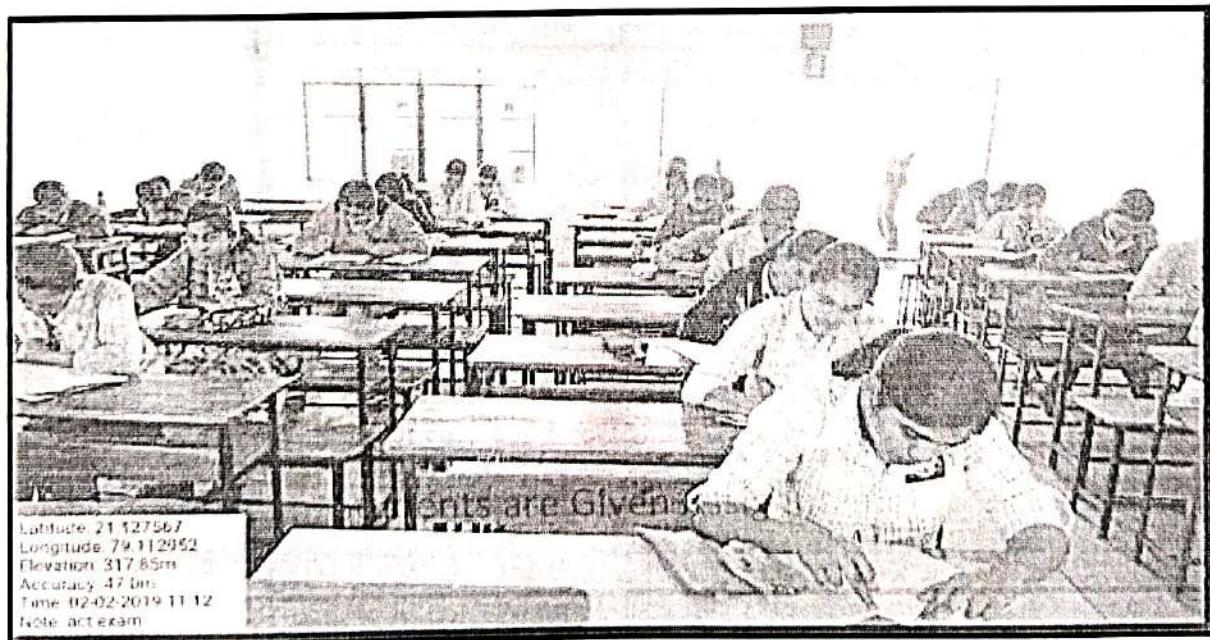
UV-visible spectroscopy is based on the absorption of ultraviolet (UV) & visible light by molecules, leading to electronic transitions between energy levels when light of a specific wavelength passes through a sample. Certain wavelengths are absorbed while others are transmitted. The amount of absorbed light of a specific wavelength passes through a sample, certain wavelengths are absorbed while others are transmitted. The amount of absorbed light corresponds to the concentration of the absorbing species in the sample. Following Beer-Lambert's law: $A = \epsilon c l$

where;

• A = Absorbance

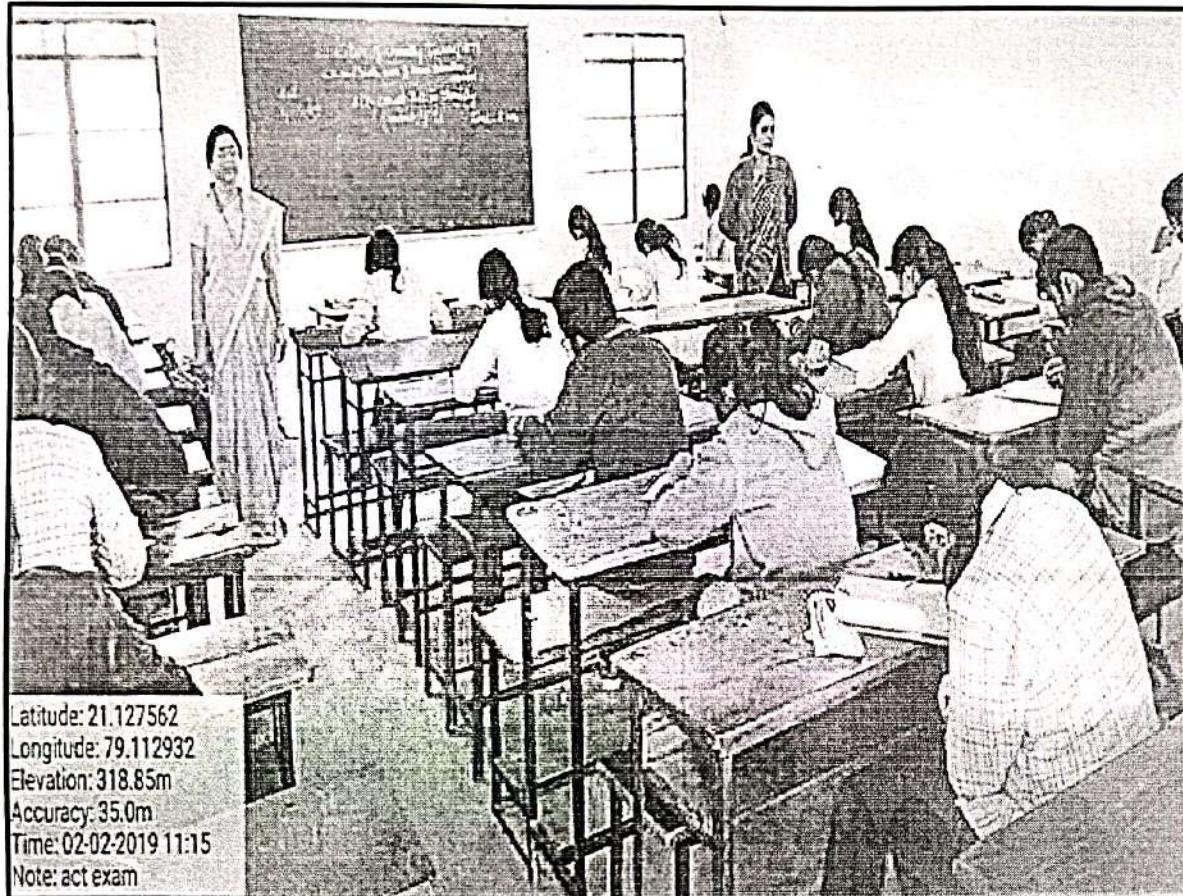
| |
|--|
| Department of Microbiology Session 2022-23 Mrs. SHIKHA VISHWAKARMA II YEAR SEM. I POLYHYDROXYLIC ACIDS |
| ① Polyhydroxyaldehydes (PHAs) are a class of biodegradable polymers synthesized by various microorganisms like <i>Saccharomyces cerevisiae</i> and many bacteria, e.g. |
| ② Due to their biodegradability and biocompatibility, they are referred as biodegradable aliphatic polyesters-based plastics. |
| ③ Industrial production of these various microbial biomaterials, which include occurring native biomaterials and currently occurring and fulfilling the purpose. |
| ④ PHAs has potential to solve the environmental and technical challenges that require further advancements in fermentation technology and biomass recycling. |
| ⑤ Monomers used in PHA production. |
| Various bacterial species can synthesize PHAs under nutrient limiting conditions with an excess carbon source. The monomers used for industrial production can be classified into two categories - |
| → Natural PHA precursors |
| These microorganisms inherently accumulate PHAs when subjected to nutrient limitations (Ex - D-mannose) |

Students are Given Assignments



By Conducting Class Test





Concept Based Exam in Chemistry: ACT

Electrochemistry

ACROSS:

- 1. The branch of chemistry dealing with the actions of electric currents on matter.
- 2. The state of a conductor when it has no net electric charge.
- 3. An electron acceptor.
- 4. With increasing no. of electrons.
- 5. The rate of change of current with respect to time.
- 6. The rate of change of potential difference between two electrodes.
- 7. The theory of atomic structure.
- 8. One of the two main types of conductors.

DOWN:

- 1. When increasing its temperature.
- 2. The case where when the current through the conductor is zero.
- 3. The number of ions and molecules in a unit volume.
- 4. The rate of increase of current.

Crossword competition

