

**Kamla Nehru Mahavidyalaya**

**Department of Biochemistry**

**Program Outcomes (Pos) and Program Specific Outcomes (PSOs)**

**B.Sc.- Biochemistry**

**Program Outcomes (POs) for B.Sc. Biochemistry Program**

- After completion of Biochemistry program students will be able to get exposed to strong theoretical and practical background in fundamental concepts.
- To get insights of multiple important technical areas of Biochemistry.
- To apply contextual knowledge and modern tools of biochemical research for solving problems.
- To make them able to express ideas persuasively in written and oral form to develop their leadership qualities.
- To demonstrate professional and ethical attitude with enormous responsibility to serve the society.

**Program Specific Outcomes (PSOs)**

- Comprehending fundamental concepts in modern biology to meet the emerging trends
- Handling microbial and biochemical systems
- Procuring hands on real time experience in industries.

**Program Outcomes for M.Sc. Biochemistry Program**

- The M.Sc. Biochemistry program offered by RTM Nagpur University is a Two Years full time program. In order to make students more career oriented and nurturing their scientific temperaments students will get exposure to the depth of core understanding of various dimensions of Biochemistry during these two years of the study.
- The training provided will give students the breadth and depth of scientific knowledge.

- A strong understanding of fundamentals of biochemical process at an advanced level.
- Better understanding of major thrust areas of the discipline
- Knowhow on current developments in the biochemical research
- Capacity to identify, analyze and design safe experimental process to provide efficient solutions by fair interpretation of data
- Perfect gain insight into biochemical research ethics for production of quality research and publication.
- An ability to get engages them in lifelong learning to foster their growth as a successful researcher and established as an entrepreneur in the field of biochemistry.

**Program Specific Outcomes (PSOs)**

- Application of knowledge and techniques of Biochemistry
- Scale up of biochemical process after designing, optimization and analysis for developing products required for society.
- Compilation and interpretation of Biological data using computer software.

## **Department Of Botany**

### **Program Outcome of B.sc Botany**

#### **1. General Outcome**

1. Job Opportunities by MPSC and UPSC exams, Railway Recruitments And Technical persons in Government Research labs, etc.
2. After completing B.ed students can get job as a teacher in various school and junior colleges.
3. B.Sc Botany student can do their Master's degree in Botany , Environmental Science , Biotechnology and other related fields.
4. After Master's degree they can peruse their Ph.D in Indian universities or in Foreign universities.
5. After completing GATE they can join IIT colleges for M.Sc + Ph.Dintergrated programs.
6. They can also opt for Professional courses like M.B.A

#### **2. Specific Program Outcome**

1. Student can join Botany related or life Science related private firms.
2. Can join agriculture seed companies, tissue culture labs, pharma companies, etc.
3. Can work as an environmental consultant in various agencies.
4. Develop inclination towards Environmental consultants.
5. Student can start their venture in Nursery for development of various plant variety plantlets like citrus , mango, pomegranate, etc
6. Can do production of bio- fertilizers and bio- pesticides.
7. Can work as a consultant for garden development and landscape designing.
8. Can start their food processing unit.
- 9.Can do cultivation of medicinal plants for conservation and Harvesting.
10. Raw material provider for medicinal industry.

## **Department Of Botany**

### **Program Outcome of M.Sc Botany**

#### **1. General Outcome**

1. PG holders in Botany can work as Assistant Professor and Associate Professor in various Governmental institutes through MPSC and direct recruitment.
2. They can pursue PhD with various fellowship like DBT, ICAR, CSIR, ICMR and other Government fundings like JFR or SRF.
3. They can pursue PhD in foreign university with fellowship.
4. They can join various research projects in government research Labs like CICR, NEERI, etc.
5. They can apply for various government jobs through UPSC, MPSC, SSC, Railway recruitment, etc
6. Can do their independent research to find out solution to various problems related to plant and environment.

#### **2. Specific Program Outcome**

1. PG holders in Botany have opportunities in public sector like Botanical Survey of India (BSI), National Institute of Oceanography (NIO), Indian Agricultural Research Institute (IARI) etc
2. They can pursue their career as environmental consultant in various environmental constituencies.
3. They can also work as nursery manager, park ranger, herbarium keeper etc.
4. They can start their own Plant Tissue Culture Lab.
5. They can start their own Seed Industry and Seed Bank
6. They can do production of biofertilizers.
7. They can pursue PhD in
  - Botany
  - Plant Biotechnology
  - Molecular biology

- Phychology and Mycology
- Plant taxonomy
- Ecology
- Plant breeding etc.

## **COURSE OUTCOMES OF BIOTECHNOLOGY**

### **B.Sc Biotechnology (Three years-Six Semester)**

On completion of the course, students are able to:

- Comprehend about the introduction and history of biotechnology
- The scopes in agriculture, medicinal, agriculture and environment.
- The cell biology and basic structural and functional study of prokaryotic and eukaryotic cells
- The growth, nutrition and factors affecting microbial growth
- Principle, general features and significance of biophysical terms like density, sedimentation, centrifugation, surface tension, adsorption
- Monochrome staining, Negative staining, Gram's staining.
- Motility testing by hanging drop method
- The definition, classification, biological function, chemical and physical properties, structural characteristic of proteins and nucleic acids
- Principle, working and applications of instruments viz, pH meters, spectrophotometer, centrifuge, viscometer, and laminar air flow
- Concept of enzyme activity and enzyme inhibition
- Metabolic pathways EMP, TCA, ETC, Gluconeogenesis
- The fundamentals of DNA damage and repair, including types of mutation and repair mechanisms.
- The Transcription, enzymes involved in transcription and its inhibitors.
- The Translation, enzymes involved in translation and its inhibitors.
- The concept of operon and its structure and regulation

### **PROGRAMME SPECIFIC OUTCOMES OF B. SC.**

- Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences.
- Acquire knowledge in domain of biotechnology enabling their applications in industry and research.
- Empower the students to acquire technological knowhow by connecting disciplinary and interdisciplinary aspects of biotechnology

- Students know about the contribution of microbiology scientist, types of microbes, and branches of microbiology & anatomy of microbes.
- Students get the information about cell & its importance in biology.
- Students take the methodological review of cultivation of microbes, pure culture, staining, sterilization & disinfection.

### **M.Sc Biotechnology (Two years-Four Semester)**

#### **Program Outcomes**

- The concept and techniques of Plant tissue culture
- Concepts of chromatography and concept of partition coefficient
- Principle, methodology and application of various chromatographic techniques
- Principle, methodologies and application of electrophoric separation of biomolecules
- Screening of microorganisms, storage and preservation of industrially important microorganisms
- Separation of amino acids by paper chromatography
- Separation of amino acids/sugar by thin layer chromatography

#### **PROGRAMME SPECIFIC OUTCOMES OF M. SC.**

- Symbiotic-Non symbiotic nitrogen fixation in leguminous plant
- Assimilation of sulphur and phosphorus by plants
- Mendalian and Non Mendalian genetics
- Cell lines application of animal cell and tissue culture, biohazards and Biosafety
- Fermentative production of representative biomolecules like enzyme, antibiotics, vitamin, beverages
- Food preservation-Chemical & Physical Method
- The students of Biotechnology can be fitted in Biotechnology, Pharma & Food Industry, Environmental Biotechnology, Genomics lab, Agricultural sector, Central & State R & D Research laboratory

## **Department of Chemistry**

### **Programme Outcomes B. Sc.**

Students will demonstrate an understanding of major concepts in all disciplines of chemistry. Students will employ critical thinking and the scientific method to design, carry out, record and analyze the results of chemical experiments and get an awareness of the impact of chemistry on the environment, society, and other cultures outside the scientific community.

1. Demonstrate, solve and an understanding of major concepts in all disciplines of chemistry.
2. Solve the problem and also think methodically, independently and draw a logical conclusion.
3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyze the results of chemical reactions.
4. Create an awareness of the impact of chemistry on the environment, society, and development outside the scientific community.
5. Find out the green route for chemical reaction for sustainable development.
6. To inculcate the scientific temperament in the students and outside the scientific community.
7. Use modern techniques, decent equipments and Chemistry software's.

### **Specific Programme Outcomes of B.Sc.**

1. B.Sc. Chemistry provides backbone in all the traditional branches of Physical, Inorganic, organic and Analytical chemistry.
2. The experimental work will be continues throughout the session to develop the theoretical knowledge and practical as well.
3. Graduates from this course will be better prepared to understand the new environment friendly systems and can understand the processes that the chemical industry is adopting.
4. The course has been designed to have insight in almost all the aspects of chemistry and to build a solid foundation in the subject to choose a career in industry or academics or research.



5. The syllabus very well designed and it covers the areas like water chemistry, consumer products-soaps, detergents, shampoos, skin preparations, polymer chemistry, drugs, industrially important chemicals used in Industry.
6. The employment areas for the B. Sc. Chemistry graduates include pharmaceutical industries, chemical manufactures, forensic science department, plastic industries, agro industries etc. apart from these they are also recruited in the field such as oil, gas and power sectors, defence services.

### **Programme Outcomes of M. Sc**

After successful completion of two year degree program in chemistry a student should be able to:

1. Determine molecular structure by using UV, IR and NMR.
2. Study of medicinal chemistry for lead compound.
3. Improve the Skill of student in organic research area.
4. Synthesis of Natural products and drugs by using proper mechanisms.
5. Study of Asymmetric synthesis.
6. Determine the aromaticity of different compounds.
7. Solve the reaction mechanisms and assign the final product.

### **Specific Programme Outcomes of M. Sc.**

1. Know the structure and bonding in molecules/ ions and predict the structure of molecule/ions.
2. Understand the various type of aliphatic, aromatic, nucleophilic substitution reaction.
3. Understand and apply principles of Organic Chemistry for understanding the scientific phenomenon in Reaction mechanisms.
4. Learn the Familiar name reactions and their reaction mechanisms.
5. Understand good laboratory practices and safety.
6. Study of organo metallic reactions.

7. Study of free radical, bicyclic compound, conjugate addition of enolates and pericyclic reactions.
8. Study of biological mechanisms using amino acids.
9. There are various higher study options for candidates who have completed their PG in Chemistry. They can join for the various other PG and research courses related to the topic of interest. Such Master of Philosophy in applied chemistry or basic chemistry. They can opt for Ph.D. in different fields of chemistry.

## **Department of Computer Science**

### **Bachelor in Computer Application (BCA)**

#### **Programme Outcomes**

- To provide thorough understanding of nature, scope and application of computer and computer languages.
- To develop interdisciplinary approach among the students.
- To develop problem solving abilities using a computer
- To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- To imbibe quality software development practices.
- To create awareness about process and product standards
- To train students in professional skills related to Software Industry.
- To prepare necessary knowledge base for research and development in Computer Science
- To help students build-up a successful career in Computer Science
- To provide thorough understanding of nature, scope and application of computer and computer languages.
- To develop interdisciplinary approach among the students.

#### **Program Specific Outcomes**

After the completion of the course, a student is able to:

- Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems.
- Design, implements, test, and evaluate a computer system, component or algorithm to meet desired needs and to solve a computational problem.
- To enhance skills and adapt new computing technologies for attaining professional excellence and carrying research.
- To pursue further studies to get specialization in Computer Science and Applications (MCA), business administration.
- To pursue the career in corporate sector can opt for MBA.

- To Work in the IT sector as programmer, system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- To work in public sector undertakings and Government organisations.

## **B. Sc. (Computer Science)**

### **Programme Outcomes**

- To develop problem solving abilities using a computer
- To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- To imbibe quality software development practices.
- To create awareness about process and product standards
- To train students in professional skills related to Software Industry.
- To prepare necessary knowledge base for research and development in Computer Science
- To help students build-up a successful career in Computer Science
- To provide thorough understanding of nature, scope and application of computer and computer languages.
- To develop interdisciplinary approach among the students.

### **Programme Specific Outcomes**

- Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems.
- Design, implements, test, and evaluate a computer system, component, or algorithm to meet desired needs and to solve a computational problem.
- To enhance skills and adapt new computing technologies for attaining professional excellence and carrying research.
- To pursue further studies to get specialization in Computer Science and Applications (MCA), Mathematics, business administration.
- To pursue the career in corporate sector can opt for MBA.
- To Work in the IT sector as programmer, system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- To work in public sector undertakings and Government organisations.

## **Bachelor of Vocation (Software Development)**

### **Programme Outcomes**

- To provide judicious mix of skills relating to a profession and appropriate content of General Education.
- To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme.
- To provide flexibility to the students by means of pre-defined entry and multiple exit points.
- To integrate NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.
- To provide vertical mobility to students coming out of 10+2 with vocational subjects.

### **Programme Specific Outcomes**

- B.Voc. in Software Development course implements the inherent practical nature of B.Voc. Course in the domain of software and computer science.
- Vocationally qualified candidate is an easy absorb in the job market as he/she is already seen aware of the functioning and techniques in practical and industrial level. Hence, the employability prospects are boosted several times as compared to a traditional bachelor's graduate.
- Vocational studies as per their nature and course curriculum are seen focused towards discussing the practical and application based side of any subject. Thus, the domain of vocational studies exposes the student to industrial working well before their entry into the job market.
- To enhance skills and adapt new computing technologies for attaining professional excellence and carrying research.
- To pursue further studies to get specialization in Computer Science and Applications (MCA), business administration.
- To pursue the career in corporate sector can opt for MBA.

- To Work in the IT sector as programmer, system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.
- To work in public sector undertakings and Government organisations.

## **Bachelor of Commerce (Computer Application) [B. Com (CA)]**

### **Programme Outcomes**

- Commerce with computer Application gives a deeper understanding of both information Technology and commerce, thereby enabling the budding graduates to pursue careers in either of the two fast-growing areas, viz. Lt Industry, Commerce, and Financial sector.
- To inculcate knowledge on RDBMS concepts and Programming with Oracle.
- This course could provide well trained professionals for the technology and allied industries to meet the well trained manpower requirements.
- The graduates will -get hands on experience in various aspects of information technology viz. Program developers, - software testing, BPO, web designer.
- The course will help the graduates to take up responsibilities in production, testing, designing and marketing in the information technologies and contribute for the growth of industry.

### **Programme Specific Outcomes**

- Moulding the students in such a way which will make them having superficial knowledge about everything in commerce and in depth knowledge about core subjects.
- Students will demonstrate that they can present the results of their observations and research in a way that is objective, technically accurate and legally acceptable.
- Students will use effective technology .appropriately, such as PowerPoint, slides, posters, handouts, and transparencies in oral presentations.
- The ability to understand, analyze and develop software programs in the areas related to system software, multimedia, web design, application programme and database for efficient design of technology of varying complexity.



## **M. Sc. (Computer Science)**

### **Programme Outcomes**

- Apply knowledge of computing to produce effective designs and solutions for specific problems.
- Can communicate scientific information, challenges and findings to scholars as well as to general audience.
- Identify, analyze, and synthesize scholarly literature relating to the field of computer science Use software development tools, software systems, and modern computing platforms.
- Can initiate and lead projects within the scientific field and be responsible for the work of individuals and groups.
- Can decide which analytical methods and complex theories are applicable Can communicate statistical information.
- Able to developed the necessary learning skills and independence for further studies
- Can make decisions in an independent, professional manner and support them.
- Identify, analyze, and synthesize scholarly literature relating to the field of computer science Use software development tools, software systems, and modern computing platforms.

### **Programme Specific Outcomes**

- Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, IoT and data analytics of varying complexity.
- Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems.
- Research

## **Master of Computer Application (MCA)**

### **Course Outcomes:**

- To develop academically competent and professionally motivated personnel, equipped with objective, critical thinking, right moral and ethical values that compassionately foster the scientific temper with a sense of social responsibility.
- To develop students to become globally competent.
- Produce knowledgeable and skilled human resources which are employable in IT and ITES.
- Function competently as an individual and as a leader in multidisciplinary projects
- Apply the inherent skills with absolute focus to function as a successful entrepreneur
- Create, identify and apply appropriate techniques, resources and modern computing tools to complex computing activities.
- Understand and commit to professional ethics and cyber regulations for professional computing practices.
- Identify the need and have the ability, to engage in independent learning as a computing professional.
- Understand and apply computing, management principles to manage multidisciplinary projects

### **Course Specific Outcome:**

- MCA graduates will demonstrate analytical and design skills including the ability to generate creative solutions and foster team-oriented, professionalism through effective communication in their careers.
- MCA graduates who will exhibit effective work ethics and be able to adapt to the challenges of a dynamic job environment.
- Understand, analyze and develop computer programs in the areas related to algorithms, Process and solutions for specific application development using appropriate data modelling concepts.
- Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.
- Apply the knowledge of computer application to find solutions for real-life application

- Ability to analyze, design, develop and maintain the software application with latest technologies
- Utilize skills and knowledge for computing practice with commitment on social, ethical, cyber and legal values.
- Inculcate employability and entrepreneur skills among students who can develop customized solutions for small to large Enterprises, IT Sector and software testing, database administration, System administrator, system analyst, etc.

## **Master of Computer Management (MCM)**

### **Course Outcomes:**

- Master of Computer Management Course is intended to create professionals for specialized commercial applications in software.
- The course equips students with adequate skills in software to meet up the changing demands of the current IT industry.
- The course study helps the candidate to gain knowledge base in areas of software programming, database applications, e-commerce fundamentals, business applications, software project management, and so on. The course is a great way of enhancing the knowledge of the computer and becoming more adept in different aspects of software such as programming, software testing, database management, network testing and so on.
- Apply knowledge of management theories and practices to solve business problems.
- Foster Analytical and critical thinking abilities for data-based decision making.
- Ability to develop value based leadership ability.
- Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to team environment.

### **Course Specific Outcome:**

- Moulding the students in such a way which will make them having superficial knowledge about everything in commerce and in depth knowledge about core subjects and implement using computer.
- Ability to evaluate a business idea and formulate a feasible business plan.
- Recognize the need for and have the orientation and ability to engage in an independent & lifelong learning in a dynamic business environment.
- Ability to appraise and explain societal and environmental aspects of business.

## **Post Graduate Diploma In Computer Commercial Applications (PGDCCA)**

### **Course Outcomes:**

- The programme covers all aspects and basics in Computer Application.
- It also has projects for developing full software in various software languages along with real time environment.
- The programme prepares the student to undertake Master Programme(MCM-II) and for designing small business application software's as per the need of industry and real world.
- The course equips students with adequate skills in software to meet up the changing demands of the current IT industry.
- Apply knowledge of management theories and practices to solve business problems.
- Foster Analytical and critical thinking abilities for data-based decision making.
- Ability to develop value based leadership ability.
- Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to team environment.

### **Course Specific Outcome:**

- PGDCCA graduates who will have successful careers based on their understanding of formal and practical methods of Application Development using the concepts of computer programming, software and design principles.
- PGDCCA graduates will demonstrate analytical and design skills including the ability to generate creative solutions and foster team oriented, professionalism through effective communication in their careers.
- PGDCCA graduates who will exhibit effective work ethics and be able to adapt to the challenges of a dynamic job environment.

## **Post B.Sc. Diploma in Computer Science and Application (PGDCS&A)**

### **Course Outcomes:**

- PGDC&A programme is aimed towards building prospective career in the field of computer application.
- The programme is designed with the objective to provide knowledge and skills in the various aspects of computer applications and core programming.
- Students will also be trained in the latest trends of information technology.
- The programme covers all aspects and basics in Computer Application.
- It also has projects for developing full software in various software languages along with real time environment.
- The programme prepares the student to undertake Master Programme (Direct second Year admission to MCA-II).
- The course equips students with adequate skills in software to meet up the changing demands of the current IT industry.
- Apply knowledge of management theories and practices to solve business problems.
- Foster Analytical and critical thinking abilities for data-based decision making.

### **Course Specific Outcome:**

- PGDCS&A graduates who will exhibit effective work ethics and be able to adapt to the challenges of a dynamic job environment.
- PGDCS&A equips the students with skills required for designing, developing applications in Information Technology.
- Students will able to learn the latest trends in various subjects of computers & information technology.

## **Bachelor of Cosmetic Technology**

### **Outcome Of Course**

- The course gives extensive training in Cosmetic formulation, Manufacturing, Analysis and Marketing.
- It gives technical, entrepreneurial and communication skills to the students.
- Students can apply for the vacancies in Sales, Marketing, Research and Development, Production and Quality Control, Beauty experts as well as in Administration and Management of Cosmetic Industries.
- High demand in various cosmetic and pharmaceutical companies and sectors.

### **SPECIFIC OUTCOME OF COURSE**

- One can also start-up with the own formulation setup / Spa centre /Beauty Salon
- It provides Formulators, Chemists, Heads of research and development at the forefront of product development, with concise comprehensive information on the latest raw materials, laboratory procedures, and testing methods available worldwide.
- Further education in Master of Cosmetic Degree and Doctoral Research, option for becoming Lecturer.

## **Master of Cosmetic Technology**

### **Outcome Of Course**

- The Programme provides in-depth knowledge related to cosmetic products with other related science like Dermatology, Formulation and Development of Cosmetic Products, Principles of Cosmeceutics, Herbal Technology and regulatory issues related to Cosmetic Science and Technology.
- The course is suitable for those candidates who want to increase their knowledge for accelerating their career by exploring and acquire a critical understanding of Cosmetic Technology.
- After the successful completion of the Master of Cosmetic Technology (MCT), study programme one can have excellent career opportunities in field of Cosmetic Technology, Private and Government sector, colleges and universities.

### **SPECIFIC OUTCOME OF COURSE**

- One can start R & D Labs, Quality control Labs for the development and testing of Cosmetic Raw materials and finished products.
- Candidates are able to work as Professor, research & Development Executive, Brand Manager (Cosmetic Products/ Raw materials), Quality Control Analyst, Assistant Supervisor (Cosmetic Laboratory), Beauty Advisor, Business Development Manager(Cosmetic) etc.
- Further education in Doctoral Research can be option for becoming Lecturer.



## **Electronics Department**

### **Program Outcome of B. Sc. Electronics**

On completion of the B. Sc. Electronics program the student should possess understanding and knowledge of the following:

- Student gained ability to understand the impact of technical solutions in a global, economic, environmental, and societal context.
- An ability to design and conduct experiments, as well as to analyze circuits and interpret data.
- Recognition of the need to apply theoretical knowledge to practice.
- Ability to identify, formulate, and solve electronics related problems.
- Testing of different electronics components and circuits.

### **Specific Program Outcome**

- An ability to use the techniques, skills, and modern Electronics gadgets necessary for instrumental development practice.
- Successfully engage in careers in a broad range of areas to serve the needs of both private and public sectors.
- An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
- An ability to use the techniques, skills, and modern electronic tools necessary for daily applications.

### **Program Outcome of M. Sc. Electronics**

On completion of the M. Sc. Electronics program the student should possess understanding and knowledge of the following:

- Basic and advance knowledge of modern communication systems.
- Knowledge of main areas of power and control systems.
- Basic knowledge of mechatronics and artificial intelligence.
- Apply project management methods to the planning of projects and apply business administration methods.
- Students can design and prepare electronics projects on their own level.
- Students gained knowledge to start their entrepreneurship.

### **Specific Program Outcome of M. Sc. Electronics**

- Detail understanding of engineering programming in common languages, such as Matlab, LabVIEW, embedded C and C++.
- Basic and advance, theory and application of digital signal processing concepts, methods and algorithms with fuzzy logic and neural network.
- Theory and practice of digital electronics logic systems design and operation and system identification.
- Theory and practice of electronics network analysis power systems in dynamical behavior.
- Give an oral scientific presentation, report on a research project and produce a research report.

## **Environmental Science UG and PG Outcomes:**

### **Program Outcome:**

The Environmental Studies major prepares students for careers as leaders in understanding and addressing complex environmental issues from a problem-oriented, interdisciplinary perspective. Students:

- Master core concepts and methods from ecological and physical sciences and their application in environmental problem solving.
- Master core concepts and methods from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.
- Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
- Understand the transnational character of environmental problems and ways of addressing them, including interactions across local to global scales.
- Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.
- Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.
- Demonstrate proficiency in quantitative methods, qualitative analysis, critical thinking, and written and oral communication needed to conduct high-level work as interdisciplinary scholars and/or practitioners.

### **Specific Program Outcome:**

The Environmental Studies minor supplements other majors to facilitate students' understanding of complex environmental issues from a problem-oriented, interdisciplinary perspective. Students:

- Understand key concepts from economic, political, and social analysis as they pertain to the design and evaluation of environmental policies and institutions.
- Appreciate concepts and methods from ecological and physical sciences and their application in environmental problem solving.

- Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
- Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.

## **Department of Mathematics**

### **Outcomes of B.Sc. (Mathematics)**

1. Understand the basic concepts, fundamental principles, and the scientific theories related to scientific phenomena and their relevancies in the day-to-day life.
2. Being able to think creatively to propose novel ideas in explaining facts and figures or providing new solution to the problems.
3. Recognize real-world problem that are related to mathematical analysis, and formulate mathematical models of such problems.
4. Use Mathematical and statistical techniques to solve well-defined problems and present their mathematical work, both in oral and written format, to various audiences.
5. Formulate the analysis of mathematical and statistical problem, precisely define the key terms, and draw clear and reasonable conclusions.
6. Read, understand and construct correct mathematical statistical proofs and Use the library and electronic data-bases to locate information on Mathematical problems.

### **Specific outcomes of B.Sc (Mathematics)**

1. In banking sector students can get in to with mathematics.
2. They can prepare for MPSC and UPSC exam.
3. Mathematics graduate can work as finance and investment analyst and advisor  
And chartered or certified accountant.
4. A career in teaching offers unparalleled job satisfaction.

## **Department of Mathematics**

### **Outcomes of M.Sc. (Mathematics)**

1. The main outcome of these courses is to give first-hand knowledge in advanced mathematics and forefront research experience.
2. Mathematicians seek out pattern and formulate new conjectures which resolve Truth or falsity of conjectures by mathematical proof.
3. Able to apply the knowledge of mathematical science to solve real life Problems.

### **Specific outcomes of M.Sc. (Mathematics)**

1. Student can choose to pursue research in your area of interest in maths.
2. Student can go in to the teaching sector also.
3. Student can work as a statistician, research analytic , Business analyst, Economic analytic, Operations analyst , Data analyst, Financial analyst, Numerical analyst, Mathematician, Researcher , Computer system analyst, and statistical quality control.
4. There are various defence departments who recruit mathematician for various posts especially naval academy.
5. PSUs and Banking also look for post graduates.

## **DEPARTMENT OF PHYSICS**

### **PROGRAM OUTCOMES OF B. Sc. MICROBIOLOGY**

- Students will be able to acquire, articulate, retain and apply specialized language and knowledge relevant to microbiology.
- Students will acquire and demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis.
- Students will communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing.
- Students will demonstrate engagement in the microbiology discipline through involvement in research or internship activities, the microbiology student association club (MSA) and outreach or mentoring activities specific to microbiology.
- Students study microscopic living systems and organisms. They can work across a spectrum of private industries or government agencies. Cell biologists focus on the uses, functions, development and lives of cells and their related systems and interaction.

### **PROGRAM SPECIFIC OUTCOME OF B. Sc. MICROBIOLOGY**

This course presents the study of Micro organisms. On successful completion of the subject the student should have understood the Role of microorganisms in the diversity.

- A general course emphasizing distribution, morphology and physiology of microorganisms in addition to skills in aseptic procedures, isolation and identification.
- This course also includes sophomore level material covering immunology, virology, epidemiology and DNA technology.
- Recommended for all allied health students. Three hours lecture and four hours lab per week.
- With the individual Research projects, Research orientation will be improved which is reflected in the form of papers and conference presentations.

- Applied papers are advanced, making the students updated in the field. More number of practicals is there in the course making the students well versed with the subject.

## **M. Sc. MICROBIOLOGY**

### **PROGRAM OUTCOMES**

- On successful completion of this subject the students will gain basic knowledge about Microbiology starting from history, Basic laboratory techniques and basic knowledge about the micro organisms.
- To inculcate knowledge in cell divisions, functions and microbial physiology and also biochemical properties of molecules.
- To inculcate knowledge in role of micro organisms in eco system and impact created by microbes in agricultural development.
- Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing. Enable the student to get sufficient knowledge in relationship between food and microbes, techniques used in food processing.

### **PROGRAM SPECIFIC OUTCOMES OF M. Sc. MICROBIOLOGY**

After successful completion of this course students are expected to be able to:

- Demonstrate theory and practical skills in microscopy and their handling techniques and staining procedures understand the basic microbial structure and function and study the comparative characteristics of prokaryotes and eukaryotes and also understand the structural similarities and differences among various physiological groups of bacteria/archaea
- Know various culture media and their applications and also understand various physical and chemical means of sterilization



- Know general bacteriology and microbial techniques for isolation of pure cultures of bacteria, fungi and algae. Master aseptic techniques and be able to perform routine culture handling tasks safely and effectively.
- Comprehend the various methods for identification of unknown microorganisms. understand the microbial transport systems and the modes and mechanisms of energy conservation in microbial metabolism – Autotrophy and heterotrophy
- Know the various Physical and Chemical growth requirements of bacteria and get equipped with various methods of bacterial growth measurement.

## **PHYSICS**

### **OUTCOMES OF B. Sc.**

- The bachelor degree course in Physics as the base to study various higher education course.
- The candidate can go for masters degree in various specialized areas such as:
  - Physics
  - Applied Physics and Ballastics
  - Bio Physics
  - Engineering Physics
  - Geophysics
  - Marine Geo Physics
  - Medical Physics
  - Renewable Energy

Higher education in Physics helps the candidate to get in to high-designated jobs. They can also demand high salary packages as they gain experience and expertise.

### **SPECIFIC OUTCOMES OF B. Sc. PHYSICS**

- Physics graduate can find ample career openings both in public as well as private sector enterprises; also can apply for all government jobs as graduation is the basic qualification.
- One can find various opportunities in governmental organizations like DRDO, VSSC, ISRO, SSPL, BARC, etc.
- They are also recruited in space research centers and in research laboratories.

There are some of the common job types like, Lab Supervisor, Technician, Teachers, Manager, and Radiation Oncologist.

- The main employment areas for Physics graduates are
  - Research institutes
  - Laboratories and Institutes
  - Educational Institutes
  - Agricultural Research Services

- Hospitals
- Power Generating Companies
- Aviation Industry
- Construction Firms
- Demolition Squads
- Pyrotechnics Manufactures

#### **OUTCOMES OF M. Sc. PHYSICS**

- The world is facing a shortage of efficient research scholars in the field of physics. As a consequence there are huge opportunities for physics candidates especially the Post Graduates.
- There is huge scope of jobs in both public and private sector for physics candidates.
- The best opportunity for physics M. Sc. candidates is doing research in Scientific.

#### **SPECIFIC OUTCOMES OF M. Sc. PHYSICS**

- There are opportunities in Material engineering firms. MRI machinery manufacturers,
- Power generation. Archaeology bodies, and Medicine manufacturing companies.
- You can also go for teaching and lecturing profession in various schools, colleges and Universities.
  
- Research and Development Organizations such as Physical Research Laboratory Ahmedabad, Defense Research and Development Organizations (DRDO), Nuclear
- Science Centre New Delhi, Bhabha Atomic Research Centre (BARC), Saha Institute of Nuclear Physics Kolkata and Indian Space Research Organization (ISRO).
- Also can find employment opportunity under the central and state government through Staff selection commission, Union Public Service Commission, State PCS. Indian Forest Services, Public sector Bank, Indian Defense services etc.

## **DEPARTMENT OF ZOOLOGY**

### **Outcomes of B.Sc. degree course (Zoology)**

- 1 Students are awarded with UG degree which helps them to get job.
- 2 Students acquire knowledge of zoology; it broadens their outlook towards importance of study of science as a subject at undergraduate level.
- 3 It provides students a launch-pad to enroll themselves for post graduate study in zoology.
- 4 Practical work make the students skillful, this skill help them to solve common problem in their daily life.
- 5 Various activities like field survey and photography project develop their hidden talent, make their mind face to think and act. Science exhibition, poster competition, short trip help in shaping their personality.
- 6) Participation in various cultural programs builds their confidence which help them to interact with different individuals in the society and work for well fare the community people.

### **Specific Outcomes of B.Sc. degree course**

- Students become well versed regarding basic concepts of modern biology, field survey work and social extension program and their applications in real life.
- Students acquire knowledge of zoology; it broadens their outlook towards importance of field survey work in identifying and classifying and distribution of animals.
- It provides students a launch-pad to enroll themselves for post graduate study in systematic and taxonomy.
- Practical work make the students skillful, this skill will help them to design outdoor activities involving local citizens in conserving biodiversity in their daily life.
- Various activities like field survey and photography project develop their hidden talent, make their mind face to think and act. Science exhibition, poster competition, short trip help in shaping their personality and do innovations which will be beneficial for the country.

- Participation in various cultural programs builds their confidence which help them to interact with different individuals in the society and work for well fare of the community people.

#### **Outcomes of M.Sc. (Zoology) Post Graduate course**

- 1) Students gain a deep knowledge of theory; practical and dissertation i.e. project work and seminar.
- 2) The above teaching module helps to develop skill, scientific temperament for research and also develop their overall personality.
- 3) Science exhibition, tours, seminars increase their interactive power with others.
- 4) Study of zoological/ life sciences help them to conserve nature and control pollution of natural resources.
- 5) Innovative program organize for them make them innovative to tackle common problems in various fields of life.

#### **Specific Outcomes of M.Sc. (Zoology) Post Graduate course**

- 1) Students develop in -depth knowledge of theory, practical and dissertation i.e. project work and seminar, which will help them in pursuing research.
- 2) The above teaching module helps to develop skill, scientific temperament for research and also develop their overall personality.
- 3) Science exhibition, tours, seminars increase their interactive power with others, which will help them to do innovations beneficial to the society.
- 4) Study of zoological/ life sciences help them to conserve nature and control pollution of natural resources, through scientific management practices relevant in modern times.
- 5) Innovative program organize for them make them innovative to tackle common problems in various fields of life and become entrepreneurship and provide jobs to students.

## **Department of Economics**

### **Programme Outcome & Programme Specific Outcome**

Bachelor of Arts (B. A) Economics

#### **Programme Outcome**

1. Students will be able to possess a broad, liberal arts foundation and an understanding of how developments in social and intellectual history shape and affect human values and institutions.
2. Students will get an idea of the range of methods by which the social sciences study individuals, cultures and societies.
3. Students will be able to analyze human behavior, problems or situations from social science, cross-cultural and global perspectives.
4. Students will be able to evaluate how theories and models within the social sciences have been established and maintained through systems of power and oppression.
5. Help the students to apply analytical skills to social phenomena in order to understand human behavior.
6. Enable the students to apply knowledge and skills to contemporary problems and issues.

#### **Specific Programme Outcome**

1. Students will be able to demonstrate the ability to employ 'the economic way of thinking'.
2. Students will be able to formulate informed opinions on policy issues and recognize the validity of opposing view points.
3. Students will be able to understand the impact of government policies and will be able to assess the consequences of the policies on the parties involved.
4. Students will be able to demonstrate quantitative reasoning skills.
5. Student develops an awareness of career choices and the option for higher studies.

**Department of Economics**

**Programme Outcome & Programme Specific Outcome**

Master of Arts (M. A) Economics

**Programme Outcome**

1. On successful completion of this course, the student should be well versed in the concepts, tools and principles in the field of Economics and Business Management.
2. Enable the student to understand the objectives of business firms, factors of production and BEP Analysis, Types of competitions and price administration, Government measures to control monopoly.

**Specific Programme Outcome**

1. Helps in determining the core concepts and the role of marketing in business and society.
2. Helps in identifying and incorporate psychological and sociological factor that influence the consumers and formulate marketing strategies accordingly.

## **Department of English**

### **Programme Outcome**

#### **BA English**

##### **PROGRAM OUTCOMES**

- Faculty of Arts runs three years degree course in English which aims at developing four skills in communication skills with the help of text content of prose lessons, Program Outcomes short plays.
- By the end of the course should be efficient enough to use English in their daily life.
- Communicate comfortably in miscellaneous situations.

##### **Specific PROGRAM OUTCOMES**

- Competency in reading, writing, listening and writing at professional level.
- Ability to prepare CV, advertisement writing, brief reProgram Outcomesrt writing etc.
- Understand the structure and function of grammatical units.
- Know the use of language at semantic and syntactic levels.
- Developed skill in electronic communication as well.

#### **B.A. English Literature**

##### **PROGRAM OUTCOMES**

- 1) Students become aware of about the vast and rich literature in English. Read closely in a variety of forms, styles, structures, and modes, and articulate the value of close reading in the study of literature, creative writing, or rhetoric.
- 2) Show familiarity with major literary works, genres, periods, and critical approaches to British, American, and World Literature.
- 3) Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.
- 4) Develop and carry out research projects, and locate, evaluate, organize, and incorProgram Outcomesrate information effectively.
- 5) Articulate the relations among culture, history, and texts.



### **Specific Program Outcomes**

1. Demonstrate knowledge of literature as a discipline with all its elements and terminology
2. Demonstrate core academic knowledge of a range of literary texts from the medieval period to the present day.
3. Identify and use key concepts and theories in literary criticism to interpret literary texts.
4. Employ the acquired knowledge in criticism and interpretation in a variety of contexts
5. Show openness to and respect for the variety of cultures, religions and Program Outcomeslitical affiliations that they come in contact with

### **MA English**

#### **Program Outcomes**

- Comprehension of miscellaneous genres and historical development of English Literature.
- Develop a range of subject specific and transferable skills, including high order of conceptual and literary skills.
- Generate a close reading of a text: recognize, understand, and explain a text's elements—for example, word choice, imagery, form, and connotations.
- Draw on relevant cultural and historical information to analyze and interpret a literary text.

#### **Specific Program Outcomes**

- Analyze underrepresented experiences and cultural diversity, including issues of race, gender, class, sexuality, and ethnicity, through the study of ethnic minority or non-Western texts.
- Research and write focused, convincing analytical essays in clear, grammatical prose.
- Demonstrate integrative and independent thinking, originality, imagination, experimentation, problem solving, or risk taking in thought, expression, or intellectual engagement.

- Tailor writing for various audiences and purposes.
- Participate in discussions by listening to others' perspectives, asking productive questions, and articulating original ideas.

## **Department of History**

### **Outcomes of B. A. Degree Course semester pattern (History)**

Study of history will help students for their further professional education they can pursue their post graduation and also their doctoral research in history.

- 1 Study of History can be useful with the concerning issues of human development.
- 2 Subject like history is very useful to study the syllabus of competitive exams, Just like UPSC, MPSC .
- 3 Students can crack the examination like NET, SET,NVS, KVS in particular subject .

### **Specific outcomes of B. A. Degree Course semester pattern (History)**

- 1 History will alter the perspective of the students regarding cultural, social, political issues which can triangle then in particular point of view.
- 2 Students will produce their own historical analysis of documents and develop the ability to think critically and historically when discussing the past.
- 3 Students should understand academic honesty, a concept presented to them in all history classes
- 4 Students should understand the value of diversity.
- 5 Students should understand the basic tools of historical analysis.

### **Outcomes of M. A. Degree Course semester pattern (History)**

- Explaining particular historical contexts and appropriate understanding of particular disciplines and methodologies.
- Reading texts to understand underling claims about the past and its relation to the present.
- Employing the knowledge and skills gained by studying the past to understand contemporary issues.

### **Specific outcomes of M. A. Degree Course semester pattern (History)**

- 1 Students will distinguish between primary and secondary sources and identify and evaluate evidence
- 2 Students should understand the basic skills that historians use in research

- 3 Students will produce their own historical analysis of documents and develop the ability to think critically and historically when discussing the past.
- 4 Students will demonstrate in discussion and written work their understanding of different peoples and cultures in past environment and of how those cultures changed over the course of the centuries

## **Department of Home Economics**

### **Specific Programme Outcomes (3 years)**

Program outcomes of B.A. Home -Economics

- Complete knowledge about management of home including kitchen management, food and dietary information, nutritional content awareness etc.
- Gain competency in understanding relevance of colors, dyes, apparel textures in textile industry.
- Basic knowledge of fashion designing.
- Learn about interior designing and decoration.
- Become efficient in understanding budgetary planning, economic and financial issues etc.

### **Specific Program outcomes of B.A. Home -Economics**

- A course in this field can provide one with the opportunities of both self employment as well as wage employment.
- Application of this subject in the various industries such as food preservation, clothing, textiles, interior decoration etc.
- Can become Diet consultants, Fashion designers, Interior designers, etc.
- Initiate their own start-up or cottage enterprise.

## Department of Marathi

Course Outcome M.A. (Marathi)

### **MAR :Madhyayugin Marathi VangmayachaItihas (Prarambh to 1650)**

On completion of the course, students are able to:

- Information about the history of Medieval Marathi Literature.
- Information about Medieval Marathi Literature Forms.
- Social Change effect on Medieval Marathi Literature.
- Socio-Cultural & Political Impact on Medieval Marathi Literature.

### **MAR :Madhyayugin Marathi VangmayachaItihas (1650 to 1818)**

On completion of the course, students are able to:

- Information about Sant, Pandit&Sahir Medieval Marathi Literature.
- Information about Medieval Marathi Literature Forms.
- Information Well Known poet SantTukaram&Ramdas .

### **MAR :Samiksha**

On completion of the course students are able to:

- to know the importance of criticism.
- To increase vision regarding literary value.
- To know the concept and process of literature.

### **MAR : SANSHODHAN PRAKRIYA**

On completion of the course, students are able to:

- to develop of critical approach about Art & literature.
- To know the research methodology & process.
- To know the importance of research.

### **MAR :StrivadiSahitya**

On completion of the course, students are able to:

- To introduce new trends in Marathi literature.
- To know the importance of feminism.
- To know the characteristics of feminine literature.

### **MAR :StrivadiSahitya**

On completion of the course, students are able to:

- Introduction of feminine agitation ( India & World)
- To know the history of the feminine movement in Maharashtra.
- To study of literature in feministic approach.

#### **MAR : BHASHAVIDNYAN**

On completion of the course, students are able to:

- To know the importance of language in human life.
- To know the various methods to the the study of language.
- To understand the communication process and method.

#### **MAR : LOKSAHITYA ANI KHANDESHI LOKSAHITYA**

On completion of the course, students are able to:

- To know the concept of folk-literature.
- To know the co-relation between folk literature and other branches.
- To know the new trends study of folk literature in new era.

#### **Specific Program Outcomes M.A. Marathi**

- Students should master the art of storytelling with the help of the language competence and knowledge of literature.
- Should be able to work in the field of media as writers.
- Students can become anchors in television channels.
- Become creative writers.
- Become teachers.

#### **Course Outcome B.A. (Marathi)**

On completion of the course, students are able to:

- Develop understanding of Literary Forms. ( Marathi Poetry & Story)
- Develop Reading, Writing & Communication Skills of Students.
- Information about the history of Medieval Marathi Literature.
- Information about Literary Theory.

- Information about the history of MODERN Marathi Literature.
- Develop understanding of Marathi Linguistics & Grammar.

**Specific Program Outcomes B.A. Marathi**

- Develop competency in Literary Forms. (I.e. Marathi poetry, autobiography, novel, short story, drama & performing prose)
- Get Information about the history of Saint Literature.
- Be able to draft News for Media.
- Be able to work as translators.



## **Department of Music**

### **B. A.**

#### **Program Outcomes**

1. Associations with other students from across the world, from all genres of music.
2. Exposure to the community & industry contacts through performances, shows, internships and field trips.
3. Broadened horizons through opportunities to take classes in new subjects or disciplines such as song writing, composition, Music production, music therapy, business etc.
4. Ability to understand all forms of music like light, semi-classical, classical, etc.

#### **Specific Program Outcome**

1. Alumni network with your college that includes events, services and networking opportunities one can take advantage off or the rest of the life.
2. Recognized qualifications and credentials to apply for Music careers such as private instructor, Band leader, Session player, background singer, Song writer, music composer, Music producer, sound engineer etc.
3. Respect and trust from people who may invest in your services.
4. Access to world-class facilities including practice rooms, performance halls, music libraries, and school radio stations.
5. A degree can give you the formal training that puts you Ahead of the thousands of musicians who are mostly self taught.

## **Department of Political Science**

### **Outcomes of B. A. Degree Course semester pattern (Political Science)**

- 4 Study of Political Science will help students for their further professional education. They can pursue their post graduation and also their doctorate research in Political Science.
- 5 Study of Political Science can be useful with the concerning issues of human development.
- 6 Students would understand the various forms of government across the world.
- 7 Subject like Political Science is very useful to study the syllabus of competitive Exams, Just like UPSC, MPSC.

### **Specific outcomes of B. A. Degree Course semester pattern (Political Science)**

1. Students will produce their own Political analysis of documents and develop the ability to think critically and political issues discussing the present.
2. To understand the existing political situation of the country and the world.
3. The student will have complete understanding of various constitutional procedures.
4. Political Science will alter the perspective of the students regarding cultural, social, political issues.

### **Outcomes of M. A. Degree Course semester pattern (Political Science)**

1. Understand issues of international and domestic politics.
2. Participate as a civically aware and conscious member of society.
3. Analyze political and policy problems and formulate policy options.
4. Analyze contemporary problems in the countries under consideration in light of the conceptual frameworks taught in class.
5. Locate resources on international politics through on-line library resources as well as those available on the World Wide Web.

### **Specific outcomes of M. A. Degree Course semester pattern (Political Science)**

1. Identify and understand the most important contributors to modern Indian and Western political thought and explain why their contributions are important.
2. Be able to explain the central concepts of national and international politics.
3. Understand the effect of various governmental policies on public.

4. Analyze the need of amendments in laws as per the changing socio-political scenario.
5. Try to identify advanced techniques of new political ideologies.

**Department of Sociology**  
**Programme Outcomes (3 years)**

**B.A.**

1. To understand the discipline of sociology and the sociological perspective, and the contribution to our understanding of social reality,
2. The student will be able to understand how sociology differs from and is similar to other social sciences.
3. Apply the sociological imagination and sociological concepts and principles to her/his own life. Participate actively in civic affairs.
4. To understand the role of theory in sociology, such that the student will be able to define theory and describe and illustrate its role in building sociological knowledge.
5. Understand and show how theories reflect the historical and social contexts of the times and cultures in which they were developed.

**Specific Programme Outcomes (3 years)**

1. To understand the basic concepts in sociology and their fundamental theoretical interrelations, such that students will be able to define, give examples, show interrelationships, and demonstrate the relevance of the following: Culture, Social change, Socialization, Stratification, Social structure.
2. Compare and contrast basic theoretical orientations with reference to social phenomena.
3. Students will get knowledge about the framework of classical thinkers and understand them in the modern context.
4. Students would know about the dimensions of the structure of society and its stratification.
5. The students will get familiar with the social processes that bring change in the society.
6. The students will be able to understand the nature of the issues confronting society.

**Programme Outcomes (2 years)**

**M.A.**

1. Students are expected to understanding the nature and scope of sociology.
2. Students become familiar with different concepts.
3. Students will learn the application of concepts and relationship.
4. Students are supposed to gain knowledge about perspectives and its applicability
5. Students are made to learn the origin of theoretical ideas in understanding society.
6. The students would be able to explain the fundamentals of various methods and techniques of data collection.

#### Specific Programme Outcomes (2 years)

1. The students would be able to differentiate between qualitative and quantitative research.
2. The students would be able to develop a critical outlook at the existing perspectives.
3. The students would be able to evolve conceptual clarity, which can lead them in their future research.
4. The students would be able to use of statistics in the analysis of data and report writing.
5. The student would be able to understand conceptual clarity, which will be useful in their future research.
6. Students can use sociological skill to reconstruct rural institution and agrarian class structure.

**Department of Commerce**  
**Bachelor of Commerce (B.Com)**

**Program Outcomes**

- Basic knowledge of accounting, taxation, principles of business management, economics, etc.
- This course could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., to meet the well trained manpower requirements.
- The program will help the graduates to take up responsibilities in production, testing, designing and marketing in the information technologies and contribute for the growth of industry.
- The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, Overall Administration abilities of the company.

**Specific Program Outcomes**

- This program could provide well trained professionals for the technology and allied industries to meet the well trained manpower requirements.
- By virtue of the training they can become an Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company secretary, Teacher, Professor, stock Agents, Government jobs etc.

**Master of Commerce (M.Com)**

**Program Outcome**

- The post graduate program provides the students advanced knowledge in the field of business and management and also enables the students to acquire the basic skills required for carrying out business activities, research, stock market operations, accounting practices, etc.
- The program also provides them with adequate knowledge and skill to provide consultancy services in finance and marketing.
- Similarly after completion of the program students can confidently prepare for NET, SET, and other competitive examinations of their choice.

- To acquire the knowledge about market, marketing information system and transportation in 21st century.
- To learn the basic management concepts and process.
- To apply the techniques of micro and macro-economics for decision making in job/business.

### **Specific Program Outcome**

- This course could provide well trained professionals for the Industries, Banking Sectors, Insurance Companies, Financing companies, Logistics, distribution channel management, Application of Information technology in Business, Alternative investment management technique etc., to meet the well trained manpower requirements.
- The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Sales Manager, Bank manager, Cost accountant, Academicians, Project management, Research Analysts, and Overall Administration abilities of the Company.

## **Bachelor of Business Administration (BBA)**

### **Program Outcome**

- Students will develop as effective management professionals and take on more responsibilities in future and to give outstanding results in the area of their interest.
- Students to acquire the knowledge, skills and competence required for successful practice of management and leadership and to help them develop a holistic personality to lead fulfilling personal and professional lives.

### **Specific Program Outcome**

- The ability to understand, analyze and apply management concepts in the areas related to marketing, human resources and finance for efficient running of the business organization of varying complexity in competitive era.
- Helps in determining the core concepts and the role of marketing in business and society.

- Helps in identifying and incorporate psychological and sociological factors that influence the consumers and formulate marketing strategies accordingly.



## **Department of MBA**

### **Program Outcomes**

- To enable students to acquire the knowledge, skills and competence required for successful practice of management and leadership and to help them develop a holistic personality to lead fulfilling personal and professional lives.
- To help students to apply key systematic and analytical decision-making skills to solve complex organizational problems.
- To facilitate students to use managerial skills to foster innovation and lead change in a dynamic business environment.
- To demonstrate knowledge, skills and techniques to lead entrepreneurial and strategic ventures.

### **Specific Program Outcomes**

- To determine the core concepts and the role of marketing in business and society.
- To gain the ability of developing marketing strategies based on product, price, place and promotion objectives.
- To identify the unique marketing mixes and selling propositions for specific product offerings.
- To identify and incorporate psychological and sociological factors that influences the consumers and formulates marketing strategies accordingly.
- To have an awareness on the general financial developments in India.
- Understand the various alternatives available for investment. Gain knowledge of the various strategies followed by the investment practitioners.
- In this course, students will learn the basic concepts and frameworks of Human resource management and understand the role that HRM has to play in effective business administration.
- After successfully completing this program, students should be able to effectively manage and plan key human resource functions within organizations.
- It helps the students to examine current issues, trends, practices, and processes in HRM and make them to contribute to employee performance management and organizational effectiveness.

- To enable the students to develop employability skills for the workplace with effective written and oral communication skills.
- To explore the fundamental knowledge in International operation.
- To gain an in-depth knowledge about various customs procedures pertaining to imports and exports.
- To explore the fundamental knowledge in logistics operation. Learners will know the impact of logistics in nation's economy. To explore the learners with more employment opportunities.

## **Department Of Library And Information Science**

### **Program Outcome: MLISc.**

#### **Program Outcome:**

1. MLISc program provides professional degree to students.
2. It provides technical education of library management.
3. At the same time it educates students from ICT point of view.
4. Provides knowledge about Current and advanced trends in dissemination of educational material.
5. This Program provides basic knowledge of library handling to students.

#### **Specific Outcomes**

1. Internship and library visit included in curriculum provides actual On-job training to students.
2. Knowledge about Intellectual Property Rights.
3. MLISC curriculum Provides guidance to students about leadership and managerial role in library.
4. Dissertations included in curriculum gives prior idea of PhD.