

DEPARTMENT OF BIOCHEMISTRY

After successful completion of three years degree course in Biochemistry, student will be well versed with laboratory skills and transferable skills.

Laboratory Skills:

- Laboratory safety practices
- Accurate weighing and reagent preparation
- Skillful handling of basic and advanced instruments
- Calibration of basic instruments like pH meter, micropipettes etc
 - Advanced techniques like
 - Chromatography
 - Electrophoresis
 - Spectrometry
 - Polymerase Chain Reaction (PCR)
 - Plant Tissue Culture
- Animal Tissue Culture
- Aseptic techniques
- Logical thinking
- Analysis and interpretation of results
- Collection, organization and presentation of data

Transferable Skills

During the course student will develop skills other than laboratory skills that are transferable across the number of career areas. These are:

- Analytical skill
- Report writing skill
- Presentation skill
- Time management
- Creative thinking
- Problem solving
- IT skills
- Planning
- Observational skill

DEPARTMENT OF BIOTECHNOLOGY

On Completion of the B.Sc. Biotechnology, students are able to

- Get empowered by Biotechnological, microbiological and biochemical skills to serve in life science related industries.
- Become eligible to take Master education in the field of life sciences inclining biotechnology, biochemistry, genetic engineering, forensic science, molecular biology and agriculture biotechnology.
- Serve as biotechnologist with apposite knowledge of practical and theoretical skills.
- Work as researcher for scientific, practical purposed in pharmacy, food, agriculture and in sterile plants of various industries.
- Serve as administrators, researchers, investigators, assistant, and data scientist, data analyst in pharmacy, food, agriculture and in sterile plants of various industries.

On Completion of the M.Sc. Biotechnology, students are able to

- Get empowered by Biotechnological, microbiological and biochemical skills to serve as biotechnologist with apposite knowledge of practical and theoretical skills.
- Become eligible to take post doctoral education in the field of life sciences inclining biotechnology, biochemistry, genetic engineering, forensic science, molecular biology and agriculture biotechnology.
- Serve as junior research fellow in government and private institutes for government or NGO sanctioned projects.
- Work as qualitative manager, production manager, researcher for scientific, practical purposed in pharmacy, food, agriculture and in sterile plants of various industries and health sectors.
- Serve as administrators, researchers, investigators, assistant, and data scientist, data analyst in pharmacy, food, agriculture and in sterile plants of various industries.
- open their one industry like plant tissue culture industries, food industries, mineral water packaging industries etc.
- apply their biotechnological knowledge in agriculture sector by producing vermin-compost, bio-fertilizer, bio-pesticides etc.

BOTANY

Course outcome UG

- This course offers self employment to the student like mushroom cultivation, organic manure preparation, cultivation of crops in poly-house condition, plant tissue culture laboratories etc.
- Understand structural organization and variation in chromosomes
- Understand plant structures in the context of physiological functions of plants.
- Understand lipid metabolism in plants.
- Students will be well versed with various processes such as mushroom, compost, Plant tissue culture, Green houses and poly houses, etc.

Course outcome PG:

- Department of Botany offer PG course in Botany designed in the North Maharashtra University as a M. Sc. Botany specialization with Genetics and Plant breeding.
- This course rigorously train students in the extensive activities run in seed companies, particularly in the field of 1. Crop specific breeding 2. Biometrical Methodology applied in the plant breeding.
- Study of a-biotic stresses with respect breeding in different crops which is one of the burning issues in Indian agriculture .

DEPARTMENT OF CHEMISTRY

Outcome of B Sc Chemistry

- To provide a broad foundation in chemistry that stresses scientific reasoning and Analytical problem solving with a molecular perspective.
- To provide students with the skills required to succeed in graduate school, the chemical industry or professional school.
- To expose the students to a breadth of experimental techniques using modern instrumentation.

- The student will understand the importance of the Periodic Table of the Elements, how it came to be, and its role in organizing chemical information.
- The student will understand the interdisciplinary nature of chemistry and to integrate knowledge of mathematics, physics and other disciplines to a wide variety of chemical problems.
- The student will learn the laboratory skills needed to design, safely conduct and interpret chemical research.
- The student will acquire a foundation of chemistry of sufficient breadth and depth to enable them to understand and critically interpret the primary chemical literature.
- The student will develop the ability to effectively communicate scientific information and research results in written and oral formats.
- The student will learn professionalism, including the ability to work in teams and apply basic ethical principles.

Outcome of M. Sc Analytical Chemistry

- To equip students with the knowledge and generic skills for employment or further training in R&D, science based industry and establishments, education, and for training at management levels in other professions.
- To prepare students to develop interpersonal skills, relating to the ability to interact with other people and to engage in team working.
- To stimulate intellectual development, develop powers of critical analysis and ability to solve problems
- To understand the instrumental method of analysis like AAS, FES, GC, HPLC, TGA, DTA etc.
- To introduce student to chemical research methodology through carrying out a research project
- To understand the official method of standardization and quality control
- To understand the data handling and knowing accuracy, precision, Standard deviation and regression etc.
- Understanding application of various volumetric and gravimetric analysis in the various field like agriculture and pharmaceutical.
- To understand and perform analysis of drug cosmetics and food in laboratory.
- To understand analysis of petroleum product like polymer and plastic.
- The programme aims to provide a broad and in depth understanding of ideas central to chemistry
- To train students in the practical skills necessary for the safe manipulation of chemicals

Outcome Of M. Sc Organic Chemistry

1. To equip students with the knowledge and generic skills for employment or further training in R&D, science based industry and establishments, education, and for training at management levels in other professions.
2. To stimulate intellectual development, develop powers of critical analysis and ability to solve problems
3. Understand the synthesis by various mechanism and charecterisation of organic compounds and natural compounds.
4. To train students in the practical skills necessary for the safe manipulation of chemicals
5. To generate interest in, and understanding of, the wider role of chemistry in society e.g. health, industry.

6. To enable students to develop independent learning skills as well as the experience of working as part of a team.
7. Understand the Stereochemistry of the natural product and organic compounds.
8. Perform the organic preparation of one, two and three stagepreparation by green and chemical approach.
9. Understanding application of organic compounds like antibacterial , anticancer and antifungal etc. in medical and pharmaceutical field.
10. To introduce student to chemical research methodology through carrying out a research project .
11. Understanding application of IR, NMR, GCMS for charecterisation of organic compounds.
12. To understand professional responsibility and ethics in Chemistry

COMMERCE AND MANAGEMENT

After Completing Bachelor of Commerce (B.Com) course, students are able to:

- To build a strong foundation of knowledge in different areas of Commerce.
- To develop the skill of applying concepts and techniques used in Commerce.
- To develop an attitude for working effectively and efficiently in a business environment.
- To integrate knowledge, skill and attitude that will sustain an environment of learning and creativity among the students.
- To expose students about entrepreneurship.
- To enable a student to be capable of making decisions at personal and professional level.

After Completing Bachelors of Business Administration (BBA) Students are able to:

- Develop ethical thinking.
- Develop functional and general management skills.
- Inculcate a global mindset.
- Evaluate different business problems using analytical and creative, and integrative abilities.
- Build and Demonstrate leadership, teamwork, and social skills.
- Communicate effectively in different contexts.
- Analyze socio-political-economic environment of business organizations.

After Completing of Bachelors in Computer Applications (BCA) Students are able to:

- Improve their computer literacy, their basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments.
- Develop criteria to organize and present different type of works in academic and professional environments.
- Learn to organize information efficiently in the forms of outlines, charts, etc. using appropriate software.
- Develop skills to present ideas effectively and efficiently.
- Academic and Professional Presentations - Designing and delivering an effective presentation and developing the various IT skills to electronic databases.
- Use the Systems Analysis Design paradigm to critically analyze a problem.

- Solve problems (programming networking database and Web design) in the Information Technology environment. Function effectively on teams to accomplish a common goal, Demonstrate professional behavior.
- Develop IT-oriented security issues and protocols.
- Able to design and implement a web page.
- Improved communication and business management skills, especially in providing technical support.

After Completing, Masters in Commerce (M. Com) Students are able to:

- develop an ability to apply knowledge acquired in problem solving.
- work in teams with enhanced communication and inter-personal skills.
- be worthy for employment in functional areas like Accounting, Taxation, Banking, Insurance and Corporate Law.
- start entrepreneurial activities.
- inculcate ethical values, team work, leadership and managerial skills.
- pursue professional courses such as CA/ CS/ CMA/CFA etc.

DEPARTMENT OF COMPUTER SCIENCES

On completion of the B.Sc. (Computer science) students are able to:

- Serve as Programmer or Software Engineer with sound knowledge of practical and theoretical concepts for developing softwares.
- Serve as Computer Engineer with enhanced knowledge of computers and its building blocks.
- Work as Hardware Designer/Engineer with knowledge of Networking concepts.
- Work as Systems Engineer and System integrator
- Serve as System Administrator with thorough knowledge of DBMS.
- Give Technical Support for various systems.
- Work as Support Engineer and Technical Writer
- Work as Consultant and Management officers for system management.
- Work as IT Sales and Marketing person.
- Serve as IT Officer in Banks and cooperative societies.
- Work as DTP Operator in small-scale industries.
- Serve as Web Designer with latest web development technologies.

Program Specific Outcomes of M.Sc. (Computer Science)

The career opportunities after **M.Sc. (Computer Science)** are quite huge. Many major national and multinational firms take in aspirants who have accomplished their graduation in these fields. The top IT firms such as Microsoft, Google, Yahoo, Rediff, Wipro, TCS, Infosys, Accenture, Cap Gemini etc. offer aspirants very attractive packages. Jobs for professionals in these fields can also be got with management consultancy organizations, Government organizations, Banks, Educational Institutions, Research Organizations and other organizations that use computers and computer-aided systems.

On completion of the M.Sc. (Computer science) students are able to work as:

- Programmer or Software Engineer
- Computer Engineer
- Web Designer
- Hardware Designer/Engineer

- Systems Engineer
- System integrator
- System Administration
- Technical Support
- Support Engineer
- Technical Writer
- Consultant
- Management
- Administration
- IT Sales and Marketing
- IT Officer
- Computer Scientist
- Research Staff Member
- Systems Analyst
- Logic Designer
- Computer Scientist in research and R & D laboratories.

DEPARTMENT OF INFORMATION TECHNOLOGY

On completion of the B.Sc. (Information Technology) students are able to:

- Get sound knowledge of practical and theoretical concepts for developing softwares.
- Get enhanced knowledge of computers and its building blocks.
- Know about Major Communication in data communication system -Transmission Path and Modems.
- Get aware of evaluation of software and Software Development Life Cycle (SDLC).
- Know about Software Coding & Testing.
- Handle program for different applications using arrays, functions and strings.
- know about functions and services of operating system.
- understand features and data types in SQL server.
- Design Turing Machines for various applications like enumerator, function computer and universal turing machine.
- develop system programs to provide basic applications for computing like line editor, interrupt handler, SMAC0 and lexical analyser.
- develop database management system using features and services provided by MS SQL Server.

DEPARTMENT OF DEFENCE AND STRATEGIC STUDIES

Program Specific Outcome for B. A.

Students will able to learn and interpret

- Strategic warfare tactics of different countries with respect to south Asia
- Different war concepts and their solutions,
- India's internal security threats
- Different methods and strategies of global securities
- Different challenges of India's internal security
- Higher defenceorganisations in India
- Reconstruction of Indian Armed forces
- The composition, importance and objectives of defence and Para-military forces

Program Specific Outcome: M. A.

Students will be able to learn and interpret

- Strategies, tactics, organization and military history of ancient and medieval times
- Military modernization of European countries
- Development and evolution of strategic thinking on warfare and their ideologies
- Defence expenditures of a country along with comparison with others
- Defence policy and budget of India
- Fundamentals of conflict resolution and management
- The concept of disarmament and arms control
- Strategic relationship and partnership of India with other countries
- Understanding of different ideological crisis
- State wise conflict ideology
- Nuclear economic wars and predictions India's national problems, issues

DEPARTMENT OF DRAMATICS

On Completion of the B. A. Dramatics, students are able to

- Participate & Perform in One-Act-Play Competition, Full Play Competition & Festivals
- Understand basics of acting, stage performance, analysis of acting, etc.
- Understand and perform in different acting styles.
- Understand and play various role plays as per the demand of the character in drama.
- Understand various ways of expression of role plays
- Study historic and present day drapery systems

DEPARTMENT OF ECONOMICS

On completion of B.A (Economics), Students are able to:

- understand basic concepts of economics.
- analyze economic behavior in practice.
- Understand the economic way of thinking.
- analyze historical and current events from an economic perspective.
- write clearly expressing an economic point of view.
- find alternative approaches to economic problems through exposure to coursework in allied fields.
- create students ability to suggest solutions for various economic problems.

DEPARTMENT OF ENGLISH

UG

On completion of B.A (English), students are able to:

- use correct English in oral as well as written form.
- Inculcate of human values for one's transformation of behavior.
- interpret the literary works by critical analysis.
- Compare literary works of the great philosophers using their logic and literary capacity.

PG

On completion of M.A (English), students are able to:

- Understand and learn the literary works on the basis of the foundation laid by the scholars.
- Strengthen their language capacity.
- assist them in understanding of extended frontiers of language and literature

DEPARTMENT OF ENVIRONMENT SCIENCE

On completion of B. Sc. (Environment Science) students are able to:

- imbibe the theoretical and practical knowledge in the field of environment conservation.
- Understand the role and responsibilities of Human Being towards the environment and environment related issues.
- develop the techniques for minimization of environmental problems.
- Get an insight into wild life habitat, biodiversity conservation programme, environmental monitoring. EIA study, etc.
- Understand the environmental problems of industrial sector with sound knowledge of environment, health and safety.
- Find newer techniques for adopting environmental friendly approach towards global society.
- learn various Environment awareness programs for the ecosystems.
- Learn and understand various environmental aspects for sustainable development of living beings.

DEPARTMENT OF GEOGRAPHY

On Completion of the BA (Geography) Students are able to:

- Study the land forms and processes.
- Understand the structure, composition of different spheres of the earth and its Atmosphere.
- Understand importance of oceans, rivers and water and find ways of their conservation
- understand the Function and types of Biogeography
- Understand the science of Remote Sensing
- Make use GIS & GPS software
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On Completion of the B.Sc. (Geography), Students are able to:

- Understand the concepts of Physiography, Drainage, Climate, and Vegetation
- Understand the structure, composition of different spheres of the earth and its Atmosphere.
- Understand importance of oceans, rivers and water and find ways of their conservation
- understand the Function and types of Biogeography
- Understand the science of Remote Sensing
- Make use GIS & GPS software
- understand Watershed management and water harvesting Structure.

On completion of the M.A./M.Sc (Geography), students are able to:

- Understand the concepts of Physiography, Drainage, Climate, and Vegetation
- Understand the structure, composition of different spheres of the earth and its Atmosphere.
- Understand importance of oceans, rivers and water and find ways of their conservation

- understand the Function and types of Biogeography
- Understand the science of Remote Sensing
- Make use GIS & GPS software
- understand Watershed management and water harvesting Structure.
- Learn maps, spatial and non-spatial data, satellite images and their acquisition
- Learn Global Navigation Satellite System
- Understanding the applications in various fields like agriculture, forestry, ecology, geosciences, disaster management, urban planning etc

DEPARTMENT OF GEOINFORMATICS

On completion of the BSc (Geoinformatics), students will be capable of :

- Understanding the space and time concept in regards to earth and environment
- Understanding the basics of computer and Geoinformatics
- Learning cartography techniques and map projection system
- Learning programming concepts and basic programming language like python or C
- Understanding language like C++ and VB with OOP concepts
- Understanding the fundamental concepts in Geoscience
- Learning basic of remote sensing and satellite image interpretation
- Learning maps, spatial and non-spatial data, satellite images and their acquisition
- Learning Global Navigation Satellite System
- Learning digital image processing
- Modelling the solution according to real world problems
- Understanding the applications in various fields like agriculture, forestry, ecology, geosciences, disaster management, urban planning etc

DEPARTMENT OF GEOLOGY

On completion of the B.Sc (Geology), students are able to:

- Understand the basic structure of the Universe, solar system and the earth.
- Understand the basic mineralogy and optical properties of minerals
- Understand the basic of palaeontology
- Understand the basic of Petrology
- Solve problems related to palaeontology and petrology and structural geology.
- Understand the basic structural elements of structural geology - folds, faults and joints
- Understand the basic lithostructural scenario of India
- Understand the basic mineralogy and optical properties of minerals
- Understand the basic nature of magma and its evolution
- Understand the basic concepts in sedimentology
- Understand the overall formation of geomorphic features and landforms
- Understand the metamorphic structures
- Understand the economic important mineral peninsular India
- Understand the natural resources and minerals in India
- Understand the various techniques in associated with geology
- Understand the environmental factor related with geology
- Understand the hydrological and ground water concepts

- Understand the basic mineralogy and optical properties of minerals.
- Understand the basic Stratigraphy.
- Understand the basic of Petrology
- Understand the basic of Structural geology

DEPARTMENT OF GREEN HOUSE TECHNOLOGY

On completion of the B.Voc. (Green House Technology), students are able to:

- Understand and practice Greenhouse management, its Fabrication, Greenhouse Designing, Greenhouse planning, Project Management for Greenhouse, etc. in Agriculture Industry.
- perform the jobs like plant protection management, grafting, tissue culture technique, etc.
- develop diverse skills and competencies relevant for the specific job roles in Greenhouse Construction and Greenhouse Management.
- Work independently for designing Greenhouse.
- Imbibe all technical skills in Green House Industry and High-Tech Agriculture Industry.
- manage protective cultivation technology, hydroponics, construction of polyhouse, greenhouse and protective agriculture.
- Understand the latest and cutting edge technologies related to polyhouses.

DEPARTMENT OF HINDI

B. A. in HINDI

After completion of B. A. Hindi student will able to

- Develop Attitude of Literary Forms. (Hindi Poetry & Fiction)
- Develop Reading, Writing & Communication Skills of Students.
- Get information about the history of ancient, medieval and modern Hindi Literature.
- learn the literary works on the basis of the foundation laid by the scholars.
- Get information about Literary Theory.
- Develop Approach of Hindi Linguistics & Grammar.

M.A in HINDI

After completion of M. A. Hindi student will able to understand

- Applications of Literature and Language concepts.
- the literary works on the basis of the foundation laid by the scholars.
- The basic need for strengthening the language capacity.
- The latest development of literary works in the world and within the country

DEPARTMENT OF HISTORY

B.A. History

On completion of the BA (History) special, students will be able to

- Understand the basic themes, concepts, chronology and the Scope of Indian History.
- Acquaint with range of issues related to Indian History that span distinct eras.
- Understand the history of countries other than India with comparative approach.
- Think and argue historically and critically in writing and discussion.
- Prepare for various types of Competitive Examinations
- Critically recognise the Social, Political, Economic and Cultural aspects of History.

M.A. History

On completion of the MA (History) special, students will be able to

- Understand and evaluate the complexities of historical developments of various nations, societies and cultures.
- Acquaint with research skills, methodologies, philosophy of history and historiography as being a professional historian and researcher.
- Prepare themselves for the competitive carriers in fields like civil services and teaching.
- Recognise history of the man in the context of universal as well as national perspective.
- Learn to evaluate the historical narratives with the approach of comparative methods.
- Think and argue historically and critically.
- Critically analyse the various sources of history.
- Understand Indian history and world history with the scientific, critical and rational approach.
- Understand values of unity in diversity, multiculturalism, multi-religiosity, secularism and humanism which are inherited in Indian Culture and upheld by our Constitution.
- Identify how the Indian culture had been contributed to the world human civilisation through the Ages.

DEPARTMENT OF MASS COMMUNICATION

On completion of the MA (Mass Communication and Journalism), students will be able to

- understand electronic media and its utility in mass communication
- understand in detail social, economic, environmental aspects related to tribal and rural sectors
- understand the importance of Human Resource Development management
- understand the role of PRO, advertisement field and various fields such as crime reporting, government sectors reporting, political reporting, cultural reporting and economical reporting
- serve as a media reporter

DEPARTMENT OF MARATHI

After completion of B. A. and M. A. (Marathi) student will able to

- Develop Attitude of Literary Forms. (Marathi Poetry & Story)
- Develop Reading, Writing & Communication Skills of Students.
- Develop Attitude of Literary Forms. (Marathi Aatmkathan & Novel)
- Develop Reading, Writing & Communication Skills of Students.
- Get Information about the history of Medieval Marathi Literature.
- Get Information about Literary Theory.
- Develop Attitude of Literary Forms. (Marathi Drama & Lalit Gadya)
- Develop Reading, Writing & Communication Skills of Students.
- Get Information about the history of MODERN Marathi Literature.
- Develop Attitude of Marathi Linguistics & Grammar.

DEPARTMENT OF MATHEMATICS

UG :

After completion of B. Sc. (Mathematics) student will able to

- learn to solve improper integrals.
- use of Linear equations for solving any differential equations
- understand various problems related with planar graphs.
- Understand Concepts of Matrices and linear equations.
- learn properties of inverse Laplace transforms

PG :

After completion of M. Sc. (Mathematics) student will able to

- understand Lebesgue integrals.
- Learn the methods of Real Analysis
- Learn Ordinary and Partial differential equations
- know the fundamentals of game theory..
- know about differentiation of functions.

DEPARTMENT OF MICROBIOLOGY

B.Sc.(Microbiology)

Upon completion of B.Sc. Microbiology programme, the students will be able to

- Perform the basic techniques related to screening, isolation and cultivation of microorganisms from various sources
- Study the microorganism with regard to morphology, cultural and biochemical characters. It will help to classify the microbes to certain extent.
- Follow the aseptic techniques and conduct the process of sterilization as well as perform the techniques to control the microorganism
- Understand microorganisms and their relationship with the environment,
- Produce and analyze the microbial products at laboratory level
- Conduct the basic research with these microorganisms and perform the diagnostic procedures required in food, milk and pharmaceutical industries.

M.Sc. (Microbiology)

On completion of M.Sc. (Microbiology), students are able to:

- Instill the intellectual skills to analyze the molecules using advance biophysical techniques such as HPLC, GC, AAS, PCR etc.
- Perform the quantitative/ qualitative analysis of Biomolecules and understand various biochemical pathways
- Acquire knowledge and understanding the concepts of Microbial genetics, Molecular biology, Immunology, Enzymology.
- Explore the scientific literature effectively and use computational tools such as bio-statistical and bioinformatics
- Implement the knowledge in industry with regard to scale up, production, scale down and quality control of the various microbial products
- Conduct the basic research related to industry-environmental issues and use of agricultural for sustainable products

DEPARTMENT OF MUSIC

On completion of B. A. (Music) students are able to

- understand the difference between different RAGAs with their usages
- understand classification of musical instruments and beats measuring
- understand difference between Indian, South Indian and Western music
- understand concepts of notation and swarlekhan
- Understand basics of Khayal, Pakad, Aaroh and Aavaroh, types of Tanas and Ragas timings of performance
- Participate & Perform individual and collective stage performances

On completion of M. A. (Music) students are able to

- Being able to read in musical notations, interpret and understand various musical expressions, symbols, signs.
- Understand concepts in Indian & South Indian music
- study variations in Indian music & Light music
- provide new vision in music & compare various ragas.
- study in detail different khyal such as Bada Khyal & Chota Khyal, Aalap & Tana's
- understand basic settings of Bandishi & Ragas
- understand and recite North Indian & South Indian music

DEPARTMENT OF PHILOSOPHY

BA (Philosophy)

On completion of the BA (Philosophy) program, students will be able to

- Understand the evolution of philosophical thoughts.
- Develop the grasp and critical analysis capability of philosophical thoughts of Indian Philosophy and Western Philosophy.
- Develop foundation in application of philosophical thoughts guiding social evolution in general and social problems in particular.
- Understand and analyze philosophical foundation of ethical values in life.
- Develop eligibility and skills required to get employment opportunity in government and private sector organizations.

MA (Philosophy)

On completion of the MA (Philosophy) program students will be able to

- Develop high order analytical reasoning capability to analyze and develop philosophical thoughts with logical foundation.
- Apply philosophical and ethical values in different social and professional aspects of human life.
- Apply philosophical thoughts guiding social evolution in general and social problems in particular.
- Develop eligibility and high skills required to get employment opportunity in government and private sector organizations.

DEPARTMENT OF PHYSICS

On completion of the B. Sc. (Physics) program, students will be able to

- Demonstrate a rigorous understanding of the core theories & principles of physics, which include mechanics, electromagnetism, thermodynamics, & quantum mechanics.
- Learn the Concept of Quantum Mechanics, Relativity, introduced at degree level in order to understand nature at atomic levels.
- Provide knowledge about material properties and its application for developing technology to ease the problems related to society.
- Understand the set of physical laws, describing the motion of bodies, under influence of system of forces.
- understand the relationship between particles & atom, as well as their creation & decay.
- Relate the structure of atoms & subatomic particles
- Understand physical properties of molecule the chemical bonds between atom as well as molecular dynamics.
- Analyze the application of mathematics to problem in physics & development of mathematical method suitable for such application & for formulation of physical theories.
- Learn the structure of solid materials & their different physical properties along with metallurgy, cryogenics, electronics, & material science.
- Understand fundamental theory of nature at small scale & energy levels of atom & sub-atomic particles.

On completion of the B. Sc. (Electronics) program, students will be able to

- Understand Basic Circuits using Active Devices.
- understand Basic Analog Circuits and their applications using Active Devices.
- learn basic test instruments such as power supply, function generator, DFM and CRO and their construction and working principle.
- understand Basic differential amplifier and their applications in linear Integrated circuits
- design & conduct experiments as well as to analyze data and its interpretation.
- design a system components or process to meet desired needs within realistic constraints such as economic environmental, social, political, ethical, health & safety.
- Understand the fundamental concept of semiconductor like crystal structure, energy band gap, charge carrier statistics.

DEPARTMENT OF POLITICAL SCIENCE

On completion of B.A (political science), Students are able to:

- understand basic concepts of political science.
- analyze political behavior in practice.
- Understand the political ways of thinking.
- analyze historical and current events from political perspective.
- write clearly expressing political point of view.
- understand alternative approaches to political problems through exposure to coursework in allied fields.
- create ability to suggest of the various political problems.
- Understand the functioning, powers of the UN, SAARC and other organisations.

On completion of M.A (political science), Students are able to

- conduct socio- political survey on political fields.
- Learn Indian Foreign Policy
- Learn Modern Political Issues.
- Understand political process in Indian federation
- Learn public administration
- Learn socio-political research methods
- Understand international politics, relations, laws, conflicts and various issues.
- Understand comparison between public administration, private administration, Indian administration.

DEPARTMENT OF PRINTING TECHNOLOGY

On completion of B.Voc. (Printing Technology) programme, students are able to

- Understand the concept of Printing and different types of printing.
- Understand the knowledge of Desk Top Publishing(DTP).
- Develop the designs for different Jobs using Photoshop software.
- Develop the designs for different Jobs using CorelDraw .
- Develop the creative design.
- Understand the knowledge of supervisory skill and Marketing.

DEPARTMENT OF PSYCHOLOGY

B. A.

On completion of the BA Psychology Programme, students are able to:

- Understand the basic concepts and modern trends in Psychology.
- Make the students aware of the applications of Psychological concepts.
- Understand the relationship between theoretical and practical principals of psychology.
- Make the students aware of the various concepts in Social Psychology of the Indian context.
- Understand the psychological measurements to help to understand the client.
- Understand the students how to follow up the behavioral problem and solve it with the behavior and other therapies.
- Administer psychological measurements and their interpretation.

M.A.

On completion of the MA Psychology programme, students are able to:

- Understand the emotional and behavioral problems.
- Understand the importance of positive and negative emotions in human life
- Apply Psychological concepts.
- Understand the relationship between theoretical and practical principals of psychology.
- Apply various concepts in counseling and clinical Psychology .
- Understand the psychological measurements to help to understand the client.
- Understand the behavioral problems and provide solutions.
- Administer psychological measurements and their interpretation.

DEPARTMENT OF SANSKRIT

B.A. (SANSKRIT)

On completion of the BA Sanskrit programme, students are able to:

- Understand the importance of Sanskrit Language.
- Develop Reading Writing & Communication skills in Sanskrit.
- Develop Attitude of Literary Forms. (Sanskrit Drama, poetry & Basic grammar).
- Develop the skill of Literary Forms (All types of literature).
- Get information about the history of Sanskrit literature.

M.A. (SANSKRIT)

On completion of the MA Sanskrit programme, students are able to:

- study the definition and Lakshanas of Mahakavya.
- study the beauty of Kavya/poetry of Mahakavya.
- study the language skills of Bhar
- study the Arthaantaranyaas Alankara used by Bhar
- do the comparative study of Mahakavya.

DEPARTMENT OF SOCIOLOGY

B.A. Sociology

On Completion of the B. A. Sociology, students are able to

- Understand structure of society, social groups, social process, culture and socialization
- Understand the concepts of social structure, marriage system, family and religion
- Understand social problems and disorganization in Indian society
- Learn about renowned social thinkers
- Learn about research methodology in sociology
- Understand basic concepts in rural-, urban- and industrial sociology

M.A. Sociology

On Completion of the M. A. Sociology, students are able to

- Understand in detail about major social institutions, new policies and trends of social change
- Learn about advanced research methodology in sociology
- Learn about social demography, social health, impact of globalization on media and society
- Understand in detail about gender and society, social movement and social welfare in India
- Understand about western and Indian social thinkers

DEPARTMENT OF STATISTICS

On completion of the BSc (Statistics), students are able to:

- Serve as Statisticians with sound theoretical, practical and computational skills.
- Work as researcher for formulation and solution of mathematical, scientific, societal and industrial problems.
- Understand the role of statistics in science, society and for National Development.
- Apply some discrete and continuous probability distributions which are highly useful in modeling real life uncertainties.
- Investigate the relationship between a variable of interest (the response) and a set of related predictor variables and formulate and fit the appropriate regression model to the given dataset.
- Serve as Administrators/Investigators in the private as well as government sectors and worked as Analyst in Manufacturing (SQC unit), Pharmaceutical Industries.
- Work in service industries as consultant & analyst such as Banking and Insurance, Forest, Telecom, Transports, Hotel etc.
- Recognize and make appropriate use of different statistical softwares such as R, MINITAB, Ms-Excel, SYSTAT etc.
- Work as Programmer to write script using R language and develop algorithms.
- Convert large amount of complex data into summarized form using Graphical representation tools that helps in visual interpretation.
- Serve as Data Scientist/ Data analyst in various companies of IT sector, Health sector, Agricultural sector etc.

DEPARTMENT OF YOGA & NATUROPATHY

UG

On completion of the B.A. (Yogic Science), students are able to:

- Gain basic knowledge of Yoga on Physical & Mental Level
- Conduct yoga class on general level.
- Understand theoretical knowledge of relation between Yoga & body (physical & Mental) in a spiritual way.
- Gain Knowledge of Yogic Kriyas to improve health.
- Gain General knowledge of anatomy _ physiology & Naturopathy Concept.
- Gain Knowledge of Yoga through Religion

PG

On completion of the M.A. (Yogic Science), students are able to:

- Get complete knowledge of Yoga on physical, mental intellectual, emotional & Spiritual way
- Develop an ideal Personality
- Get deep knowledge of Yogic Concepts
- Gather Experience of physical and mental Stability of Yogic Practices

DEPARTMENT OF ZOOLOGY

On Completion of the B.Sc (Zoology) students are able to

- Understand the nature and basic concepts of cell biology
- Understand the basic concepts about chordates and non-chordates
- Understand the concepts of Goatsy and Lac culture.
- Understand the various Applications of Biotechnology
- Understand the Lamarkism, Neo-Lamarkism and Darwinism.
- Understand the term ELISA technique and DNA finger printing.
- Understand the process of evolution.

On Completion of the M.Sc Zoology, students are able

- Understand the various microbial, bacterial as well as viral diseases and pathogenicity.
- Understand the Organization And Life: Homology and Analogy, Diversity of invertebrates, Phylogeny of invertebrates.
- Understand the larval forms of the invertebrates.
- Understand the colonial and social life in invertebrates.
- Understand the structure and function of the cell and its organelles
- Understand the Applications and uses of Statistics in Zoology.

DEPARTMENT FINE ARTS

On Completion of the B.F.A., students are able to:

- Create elevation, drawing of plan, and other 3d objects on plain surface
- Learn study of colours and their applications in making various art works using various media
- Learn the principles of design and synthesis of art and giving 3d effects to objects and creating illusions.
- Get knowledge about visual communication and its effects.
- Learn history of typography, its various mediums and techniques.
- Get acquainted with basic knowledge about print media, press layout, magazine, hoardings, posters, etc.

On Completion of the M.F.A., students are able to:

- Learn making illustrations according to the current situations and depicting them through different media.
- Learn using different styles and tools of typography.
- Learn using new ideas and vision to create new art work.
- Make animations using new software and techniques.
- Get the overall knowledge in the field of advertising and marketing.