



GOVERNMENT DR. SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE COLLEGE
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Session

2020-21

Course Outcomes

2.6.1. Programme outcomes, Programme specific outcomes and course outcomes for all Programme offered by the institution are stated and displayed on website and communicated to teachers and students. Response:

- The college has clearly stated learning outcomes of the Programs and Courses. The following mechanism is followed by the institution to communicate the learning outcomes to the teachers and students.
- Hard Copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students.
- The importance of the learning outcomes has been communicated to the teachers in every IQAC meeting and College Committee meeting.
- The students are also made aware of the same through Tutorial meetings
- Workshops have also been conducted for developing the Programme Educational Objectives and Learning outcomes at college level The institution is running Under Graduate (B.A, B.sc, B. com, BHSc) Self finance(BSc.Biotech, BSc Computer application. BCom computer application) and Post Graduate (M.A History, M.A Sociology, MSc.Chemistry, MSc.Botany, MSc.Zoology, MSc. Mathamatices, MCom) courses for the students.
- There are 13 Departments in the college viz. Chemistry, Physics, Botany, Zoology, Mathematics and Commerce, Home science, Sociology-English, Hindi, Political Science, Economics, History.

➤ **Department of Commerce**

Programme Outcome

- This programme provide well trained professionals for Industries, Insurance Companies, Transport Agencies, Banking sectors, Financial companies, Warehousing etc. to meet the well trained manpower requirements.
- The graduates will get hands on experience in various aspects acquiring skills for Marketing Manager, Selling Manager, over all Administration abilities of the company. • It provides students with the knowledge and technical skills in the accounting and financial fields.

Programme Specific Outcome

- The students should possess the knowledge, skills and attitudes during the end of the B.com degree course.

- By virtue of the training they can become an Manager, Accountant, Management Accountant, Bank Manager, Company Secretary, Professor etc.

Course Outcomes

- The student should have a thorough knowledge on the accounting practice prevailing in partnership forms and other allied aspects.
- On the successful completion of this subject the students acquires the knowledge about the various types of business organizations and office management.
- To enable the students to learn principles and concepts of Accountancy.
- The students are enabled with the knowledge in the practical applications of accounting.
- This course aims to provide an in-depth knowledge on the provisions of Income Tax and to familiarize with recent amendments in Income-Tax.
- To keep the students conversant with the ever-enlarging frontiers of Cost Accounting knowledge.
- The student should be able to work efficiently in MS-PowerPoint and Tally.

➤ **Department of Physics**

Programme Outcome

- Physics is a branch of science that studies matter and its motion through space and time, along with related concepts such as energy and force. Physics is one of the fundamental sciences because the other natural science deal with systems that seems to obey the law of Physics. According to Physics, the physical laws of matter, energy and the fundamental forces of nature govern the interactions between particles and physical entities (such as plants, molecules, atoms or the subatomic particles). • Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature. • Physics uses mathematics to organize and formulate experimental results and from which new predictions can be made. • The results from physics experiments are numerical measurements. Technologies based on mathematics, made computational physics as active area of research.

Programme Specific Outcome

- Gain a wide spectrum of skills which will enable them to solve both theoretical and experimental problems. • Secure jobs in banks, in the field of Education, and in industries which require Scientific and Engineering

- knowledge.
- Understand the importance of renewable energy and its applications.
- Acquire the skill to gauge the physical properties of materials.
- Be able to make effective use of information technology.

Course Outcomes

- The students will demonstrate a scientific knowledge of the core physics principles in Mechanics, Electromagnetism, Modern Physics and Optics
- The student will determine the appropriate level of technology for use in experimental design and implementation, analysis of experimental data and numerical and mathematical methods in problem solutions
- The students will demonstrate a purposeful knowledge of scientific literature and ethical issues related to physics
- The students will effectively communicate their knowledge of physics from basic concepts to specific detailed presentations through a variety of oral, written and computational modalities
- To acquire the basic knowledge of mechanics, properties of matter and gravitation
- Learn motion of bodies and sound waves
- To inspire interest for the knowledge of concepts in physical and geometrical physics.

> 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.

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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.

➤ 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.

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

- 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.
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Specific Programme Outcomes of B.Sc.

- B.Sc. Chemistry provides backbone in all the traditional branches of Physical, Inorganic, organic and Analytical chemistry.
- The experimental work will be continues throughout the session to develop the theoretical knowledge and practical as well.
- 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.
- 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.
- 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.
- 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:

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

Specific Programme Outcomes of M. Sc.

- Know the structure and bonding in molecules/ ions and predict the structure of molecule/ions.
- Understand the various type of aliphatic, aromatic, nucleophilic substitution reaction.
- Understand and apply principles of Organic Chemistry for understanding the scientific phenomenon in Reaction mechanisms.
- Learn the Familiar name reactions and their reaction mechanisms.
- Understand good laboratory practices and safety.
- Study of organo metallic reactions.
- Study of free radical, bicyclic compound, conjugate addition of enolates and pericyclic reactions.
- Study of biological mechanisms using amino acids.
- 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 applies chemistry or basic chemistry. They can opt for Ph.D. in different fields of chemistry.

- **Course Outcomes**

- Understand the principles of various fields of chemistry (organic, inorganic, physical, analytical, and biochemistry)
- Develop as independent thinkers who are responsible for their own learning
- Develop transferrable quantitative skills
- Be able to work with others demonstrating leadership and collaborative skills
- Demonstrate a comprehensive understanding of the theory and practice of modern instrumentation and apply it to appropriate chemical problems
- Recognize potential laboratory safety concerns and address them using appropriate techniques
- Produce scientific reports formatted for peer-reviewed publication, using the primary literature
- Present the results, conclusions, and relevance of scientific experiments to a specific audience

➤ **Department of Botany**

Programme Outcome

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

Specific Program Outcome

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

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- Raw material provider for medicinal industry.

Program Outcome of M.Sc Botany

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

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Specific Program Outcome

- 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
- They can pursue their career as environmental consultant in various environmental constituencies.
- They can also work as nursery manager, park ranger, herbarium keeper etc.
- They can start their own Plant Tissue Culture Lab.
- They can start their own Seed Industry and Seed Bank
- They can do production of biofertilizers.
- They can pursue PhD in
 - Botany
 - Plant Biotechnology
 - Molecular biology
 - Phychology and Mycology
 - Plant taxonomy

- Ecology
- Plant breeding

- **Course Outcomes**

- Comprehend the diversity of lower cryptogams (Algae, Fungi, Bacteria, Phytoplasma and viruses. Collection and study of algae, fungi, bacteria from different localities, Identification up to generic level. Recognize the morphology, anatomy, physiology, reproduction and lifecycle pattern.
- Their diversification and familiarize with various ecological niche.
- Study plant morphology, Description of a plant specimen, Study of at least 20 locally available families of flowering plants, Identification of genus and species of locally available wild plants, Preparation of botanical keys at generic level by locating key characters., Knowledge of at least 10 medicinal plant species. Knowledge of secondary metabolites and its use in taxonomy, Know about the induction of polyploidy in plants using colchicines, methods of, application of colchicine., Isolation of biochemical mutants following physical and chemical mutagenic, Isolation of chlorophyll mutants following physical and chemical mutagenic treatments.
- Isolation of morphological mutants following physical and chemical mutagenic treatments. Karyotype analysis, Meiosis of complex translocation heterozygotes, Meiotic behaviour of monosomy, trisomy in plants and its effect, Chromosomal behaviour in mutagen treated plants, Chromatin organization, Structural and Numerical alterations in chromosomes, Know about plants anatomical structure, their developmental patterns.
- Plant reproductive parts development of male, female gametophytes and fruits, Vascular tissues and its constituents by sections and maceration, wood anatomy, TS, TLS and RLS Mechanical tissues, Secretary tissues, laticifers. Normal and abnormal secondary growth etc.
- On completion of this course the students are able to analyze various types of ecosystems, correlate different ecosystems. To analyze the threat and suggest conservative measures.
- The students are also trained in the environmental impact analysis, Students are able to analyze, monitor various physical, chemical and biological properties of soil water and air.
- Students will be able to define and explain major concept in the biological sciences.

- It will help the student to use biological instruments in proper and correct way. It will enable the students to explain and apply the scientific method including designing and conducting experiments and testing hypotheses.
- Students will be able to communicate biological knowledge in oral and written form.

➤ Department of Zoology

Programme Outcome

- Students are awarded with UG degree which helps them to get job.
- Students acquire knowledge of zoology; it broadens their outlook towards importance of study of science as a subject at undergraduate level.
- It provides students a launch-pad to enroll themselves for post graduate study in zoology.
- Practical work makes the students skillful, this skill helps them to solve common problems 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.

Programme Specific Outcomes

- 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 makes 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)

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

Specific Outcomes of M.Sc.

- Students develop in -depth knowledge of theory, practical and dissertation i.e. project work and seminar, which will help them in pursuing research.
- The above teaching module helps to develop skill, scientific temperament for research and also develop their overall personality.
- Science exhibition, tours, seminars increase their interactive power with others, which will help them to do innovations beneficial to the society.
- Study of zoological/ life sciences help them to conserve nature and control pollution of natural resources, through scientific management practices relevant in modern times.
- 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.

- **Course Outcomes**
- Exposure to diversity in animal groups (invertebrates), cell biology and Ecology.
- To inculcate good laboratory practices in students and to train them about proper handling of lab instruments.
- Exposure to diversity in animal groups (vertebrates), and applied zoology.
- The practical course intends to inform students about Animal systematic, animal diversity and applied zoology field such as Fisheries, Apiculture, Sericulture etc.
- Students pursuing this course should have detailed studies of the various disciplines of the zoology subject and the other branches of zoology such as Genetics, Animal physiology, Molecular biology, Biochemistry, Microtechnique, Non-chordate and Chordate, Developmental Biology, Histology, cell biology, Biodiversity, Medical entomology, parasitology, Genetics etc.
- The working principles, design guidelines and experimental skills associated with different fields of zoology such as genetics and cell biology, Entomology, physiology, Developmental biology, histology, biochemical techniques etc.

➤ **COURSE OUTCOMES OF BIOTECHNOLOGY**

B.Sc Biotechnology

- 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
 - The Structure and Function of DNA and RNA.
 - The Transcription, enzymes involved in transcription and its inhibitors.
 - The Translation, enzymes involved in translation and its inhibitors.
 - The concept of opera on and its structure and regulation.

Specific Programme Outcome

- 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

➤ Department of Mathematics

Programme Outcomes of B.Sc. (Mathematics)

- Understand the basic concepts, fundamental principles, and the scientific theories related to scientific phenomena and their relevancies in the day-to-day life.
- Being able to think creatively to propose novel ideas in explaining facts and figures or providing new solution to the problems.
- Recognize real-world problem that are related to mathematical analysis, and formulate mathematical models of such problems.

- Use Mathematical and statistical techniques to solve well-defined problems and present their mathematical work, both in oral and written format, to various audiences.
- Formulate the analysis of mathematical and statistical problem, precisely define the key terms, and draw clear and reasonable conclusions.
- 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)

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

Programme Outcomes of M.Sc. (Mathematics)

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

Specific outcomes of M.Sc. (Mathematics)

- Student can choose to pursue research in your area of interest in maths.
- Student can go in to the teaching sector also.
- 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.
- There are various defence departments who recruit mathematician for various posts especially naval academy.
- PSUs and Banking also look for post graduates.

Course Outcomes

- Demonstrate basic manipulative skills in algebra, geometry, trigonometry and beginning calculus.
- Apply the underlying unifying structures of mathematics and the relationships among them.
- Demonstrate proficiency in writing proofs.
- Investigate and apply mathematics problems and solutions in a variety of contexts related to science, technology, business and industry and illustrate these solutions using symbolic, numeric or graphical methods.
- Students can understand the foundation of Mathematics.
- They are able to perform basic computation in higher Mathematics.
- Students are able to develop problem solving skills
- They are able to communicate Mathematical ideas with others.
- They can enhance the quality of analysis and research in different mathematical fields. Operations research can develop the management quality in different industries and factories.

➤ Department of Economics

Programme Outcome (B. A) Economics

- 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.
- Students will get an idea of the range of methods by which the social sciences study individuals, cultures and societies.
- Students will be able to analyze human behavior, problems or situations from social science, cross-cultural and global perspectives.
- 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.
- Help the students to apply analytical skills to social phenomena in order to understand human behavior.
- Enable the students to apply knowledge and skills to contemporary problems and issues.

Specific Programme Outcome

- Students will be able to demonstrate the ability to employ 'the economic way of thinking'.
- Students will be able to formulate informed opinions on policy issues and recognize the validity of opposing view points.

- 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.
- Students will be able to demonstrate quantitative reasoning skills.
- Student develops an awareness of career choices and the option for higher studies.

- **Course Outcomes**

- Understand the behavior of Indian and world economy.
- To develop the financial literacy for profitable investment.
- To make students aware of the issues of inflation, unemployment, poverty, GDP and Balance of payment.
- It develop the skill to make better decisions in business environment and even in your personal choices.
- To impart the knowledge of Banking, Marketing and different sections of economy so that students will get job opportunities in different economic, financial, banking, marketing and other sections of economy.
- Economists are vital in helping, predict and study responses to changes in policy and market changes, which is an important skill in today's changing business environment.
- Economists also study and help in developing public policies like health care and educational reforms.

➤ **Department of History**

- **Programme Outcome**

- The Bachelor of Arts in History is a broad- based programme that has specific goals, including : engaging the mind and imagination of those who study history ; introducing students to worlds, times, places and cultures including their own in a way that they have never thought before

- **Course Outcomes**

- To create interest towards the cultural and historical background of India.
- To understand the various historical incidents and to help students for preparing competitive examination.
- To help the students to identify and evaluate conflicting interpretations. • It inspire the students through bravery and courage of our forefather. • It inculcates critical thinking, reading, writing and research skills among students.

➤ **Department of Political Science**

• **Program Outcomes of B. A.**

- 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.
- Study of Political Science can be useful with the concerning issues of human development.
- Students would understand the various forms of government across the world.
- Subject like Political Science is very useful to study the syllabus of competitive Exams, Just like UPSC, MPSC.

Specific outcomes (Political Science)

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

• **Course Outcomes**

- It understands inspires political philosophy, ideologies and the nature of Indian Constitution.
- Comparative study of international politics and role of women in politics.
- It understand the students different types of Government and their policies.
- It helps the students to understanding responsibilities and rights of the citizens of a country.
- It helps the students what is happening in the countries around the world, issues the people are facing or new laws are being implemented. •It understand the structure and working of the state, the separation of power, the judicial and legal system, scheme of welfare and social services.

➤ **Department of Geography**

Program Outcomes

- Knowledge outcomes: Demonstrate knowledge of physical and cultural features of the earth and• locate them on a map. Know about the basic disciplines of Geography and its sub branches.

- Know the basic concepts and terminologies used in Geography like interior of the earth, plate tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
- Differentiate between minerals and rocks, weather and climate, interior of the earth, basic industries, farming etc. Get information about the causes and effects of local, national and international problems like global warming, acid rain, ozone depletion, soil degradation, deforestation etc.
- Skill outcomes: Carry out surveying and learn the art of map making and prepare maps for the areas with the help of surveying techniques. Gain knowledge of quantitative methods and their ability to use statistical and cartographical methods to solve geographical problems. Construct various types of projections and scales as per requirement of the study. Collect primary and secondary data in the field. Apply various statistical formulas to analyse data. Use cartographic techniques with the help of simple software techniques like MS Excel. Handle topographical and weather maps and interpret them. Identify types of rocks. Know about Geographical Information System (GIS) and Remote Sensing.
- **Program Specific Outcomes (PSO):**
- Students learn about formation of landforms and identify various landforms around them. Students learn about various economic activities of man and their spatial temporal distribution. Students acquire knowledge of basic surveying and map making.
- Students know about disasters, their causes and managing disasters.
- Students come to know about geographical, socio-economic and political background of India. Students apply geographical knowledge in their day to day life like being alert about disasters, weather and climate data.

Course Outcomes

- It develop the skills including critical thinking, problem solving, reasoning, analysis, interpretations and synthesizing information's and communication literacy, media and internet literacy, data interpretation and analysis and computer programming.
- It imparts the knowledge about different places on earth and how they relate with each other.
- It help the students to identify

and appreciate important events and National and International policies; make better and informed decisions regarding the best use of National resources. ●It help the students to know about the relationship between human being and the environment and the general process of natural resources. ●It enable the students to understand how population growth and technological advances affect the environment. ●It help the students to gain the understanding of International matters and multicultural concerns, read maps, interpret local and global information and understand International networks for trade.

➤ Department of Sociology

● Program Specific Outcomes (PSO):

1. Develop a strong foundation of Sociology as a distinctive discipline in Social Science arena, its nature, scope and relationship with other social sciences, basic concepts, principles and different perspectives in studying macro social structures- social groups, social stratification, basic social institutions, social processes, social problems etc., and their applications to understand and analyze the inherent complexity of social life as a whole. Build a concept of Sociology in India and the study of Indian society and social structure.

2. Conceptualise with critical appraisal the grand theories of Sociology and contemporary social issues along with the History of the emergence of Sociology in the Classical era, the Western Classical Sociological thought and the contributions of the pioneers of Sociology in India. 3. Understand the significance of Sociology in studying human societies with variable features and attaining different positions across a variable continuum of stages of technological, economic and social development and change. Conceptualize the process of social change, development of modern organizations, and the importance of demography in bringing about social change.

Understand the methodology of Sociological research, its importance and application of different approaches to understand, analyze and resolve social issues for a better life in society as a whole.

4. Undertake a firsthand experience of sociological research in form of a survey-based dissertation with social issues of individual interest. Be competent to