

Heera Pratisthan Nandurbar



**SHRI KAKASAHEB HIRALAL MAGANLAL CHAUDHARI  
ART'S, COMMERCE AND SCIENCE COLLEGE, NANDURBAR**

**Reg. No.** E-70 / 29-06-1959

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## 2.6.1: Program Outcomes (POs)

## **PROGRAM OUTCOMES (POs)**

A program outcome represents the knowledge, skills and educational attitudes of the students at the end of a degree program. Program Specific Outcomes means what the graduate students of a specific degree program should be able to do and Course Outcomes are the result of skills that the students acquire at the end of the course. It defines the cognitive and intellectual process a course provides. The IQAC guides the departments regarding the preparation of program outcomes, program specific outcomes and course outcomes. These are done by the departments, according to the university prescribed syllabus. The staff and student are made aware of aims and objective and program outcomes through meetings, orientation programs for teacher, staff members and student. Each department, follows extensive discussions, according to the nature and scope of the Programmes and Courses offered by them, prepare Course outcomes.

The various curricular and co- curricular activities of the college enhance their academic capabilities and future potentials. The curricular and academic activities of the college are aimed at extending the quantitative and qualitative nature of the programmes offered, it ensures career orientation, skill development and the promotion of all the skillset. Along with the prescribed curriculum and traditional teaching methods like lectures, assessments, provision of notes, assignments etc. smart boards, ICT tools, projectors etc. and also we focus on practical approach wherever it is needed . The teaching and learning methods streamlined for effective transfer of knowledge is carried out by making use of different innovative and teaching techniques that are student centric in approach place.

## **BACHELOR OF ARTS (B.A)**

Students taking admission to BA program are expected to have following qualities which help them to achieve their expected goals.

PO 1. The students acquire knowledge in the field of social sciences, literature & humanities which make them sensitive & sensible enough.

PO1. Realization of human values, culture and sense of social service.

PO2. Skill of effective communication and language learning i.e. reading, writing, listening and speaking another language with fluency and understand its cultural value.

PO3. Independence in learning appropriate theories and methodologies with intellectual honesty and an understanding of ethical and human values.

PO4. Develop critical and analytical skills to the identification and resolution of problems within complex changing social, linguistic and literary contexts.

PO5. Expertise in respective fields, work with self-esteem, self-reliance, self-reflection and creativity to face adversities in the work and personal life.

PO6. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate program of their choice.

## **BACHELOR OF SCIENCE (B.Sc.)**

Students taking admission to B.Sc. program are expected to have following qualities which help them to achieve their expected goals.

PO1. Explaining the basic scientific principles and methods.

PO2. Inculcate scientific thinking and awareness among the student.

PO3. The qualities of Science - observation, precise, analytical mind, logical thinking, clarity of thoughts and expression and systematic approach, qualitative and quantitative decision making are enlarged.

PO4. Ability to handle the unexpected situation by critically analyzing the problem.

PO5. Understanding the issues related to nature and environmental contexts and sustainable development.

PO6. The program also empowers the graduates to appear for various competitive exams or choose the post-graduate program of their choice.

## **BACHELOR OF COMMERCE (B.Com)**

Students taking admission to B.Com program are expected to have following qualities which help them to achieve their expected goals.

PO1. Develops commercial sense and built up conceptual foundation and application skills in the areas of accountancy, finance, management, research and higher education

PO2. Develop managerial skills and ability to manage accounts, people and organizations across the world.

PO3. Build life skills and entrepreneurial skill through value-based education and service-oriented programs

PO4. Develop Numerical ability, analytical and decision-making skills, equipped with financial and management accounting techniques covering the technical areas that required accountants.

PO5. The program also empowers the graduates to appear for various competitive exams or chose a profession of their choice such as CA, CS, MBA.

## **BACHELOR OF COMPUTER APPLICATION (BCA)**

Students taking admission to BCA program are expected to have following qualities which help them to achieve their expected goals.

PO1: Apply mathematical calculation, computing and domain information for the conceptualization of computing models from clear harms.

PO2: Talent to classify, significantly evaluate and prepare complex computing problems using fundamentals of computer knowledge and request domains.

PO3: Facility to transform composite production scenarios and present-day issues into problems, explore, recognize and propose included solutions using rising technologies.

PO4: Ability to invent and ways experiments interpret data and present well up to date conclusions. Also skill to select recent computing tools, skills and techniques compulsory for original software solutions

PO5: Facility to apply and give expert principles and cyber systems. Identify the need for and enlarge the ability to appoint in permanent education as a Computing qualified.

PO6. Develops analytical, logical thinking, critical thinking, technical skill, communication skills, problem solving and decision-making skills.

## **BACHELOR OF BUISNESS ADMINISTRATION(BBA)**

Students taking admission to BBA program are expected to have following qualities which help them to achieve their expected goals.

PO1. Critical Thinking Skills: Students are able to define, analyze, and devise solutions for structured and unstructured business problems and issues using cohesive and logical reasoning patterns for evaluating information, materials, and data.

PO2. Communication Skills: Students are able to conceptualize a complex issue into a coherent written statement and oral presentation.

PO3. Entrepreneurship and Innovation: Students can demonstrate the fundamentals of creating and managing innovation, new business development, and high-growth potential entities.

PO4. Business Knowledge: Students can demonstrate technical competence in domestic and global business through the study of major disciplines within the fields of business.

PO5. Individual and team work: Students can function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO6: Project management and finance: Demonstrate knowledge and understanding of the management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

## **BACHELOR OF MANAGEMENT STUDIES(BMS)**

Students taking admission to BMS program are expected to have following qualities which help them to achieve their expected goals.

PO1: Ability to gain and apply knowledge of management principles, concepts and theories.

PO 2. Ability to analyze problem and provide effective and meaningful solutions. To increase awareness of the factors influencing decisions & the risks involved.

PO3. Encourage enterprise culture through innovative & creative thinking & develop attitude to provide solutions to the problems in the business world as well as address the needs of the society.

PO4. An ability to apply managerial skills by working effectively as an individual, as a member of a team or as a leader on multidisciplinary management projects.

PO5. To develop effective interpersonal skills & display efficient verbal, non-verbal and written communication

## **MASTERS OF ARTS (M.A)**

MA postgraduate program provides to make a significant change in one's professional career.

PO1. The students acquire depth knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough to solve the issues related with mankind.

PO2. The postgraduates will be acquainted with the social, economic, historical, geographical, political, ideological and philosophical tradition and thinking of their respective subjects

PO3. The program also empowers the post-graduates to appear for various competitive examinations or choose the any post graduate or research program of their choice.

PO4. The M. A. program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.

PO5. The students will be ignited enough through the knowledge of the special PG program to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.

PO6. Through the PG program the students will come know about research in their respective subject. It may also provide the information to the students for collection of Data, enquiry, primary and secondary methods of collection of data, classification and tabulation of data.

PO7. Students get knowledge of various research methods and can realize the importance of research to find solutions of a specific issue.

PO7. Valuable personal skills and fulfil a crucial prerequisite to PhD study.

## **MASTERS OF COMMERCE (M.COM)**

M.Com postgraduate program provides to make a significant change in one's professional career.

PO1. The program provides a systematic and rigorous learning and exposure to Banking and Finance related disciplines.

PO2. To train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactions of a business.

PO3. To acquaint a student with conventional as well as contemporary areas in the discipline of Commerce.

PO4. To enable a student well versed in national as well as international trends. To facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments.

PO5. To provide in-depth understanding of all core areas specifically Advanced Accounting, International Accounting, Management, Security Market Operations and Business Environment, Research Methodology and Tax planning. Program Specific Outcome.

PO6. Valuable personal skills and fulfil a crucial prerequisite to PhD study.

## **MASTERS OF SCIENCE(M.Sc.)**

MSc postgraduate program provides to make a significant change in one's professional career.

PO1. Enhanced career prospects that can be gained by taking a Master of Science.

PO2. Ability to integrate and generate in depth relevant scientific knowledge for benefit of related course.

PO3. Ability to apply knowledge to perform project works scientifically to explain course phenomena.

PO4. Ability to analyze and solve course problems and also ability to evaluate situation and react responsibly to communicate, co-operate and lead a team among peers and others.

PO5. Ability to integrate professional ethics in life, organization, society and individual to fulfill the aspect of mankind in both spiritual and material aspects.

PO6. Ability to acquire knowledge independently for continuous personal and professional development.

PO7. Valuable personal skills and fulfil a crucial prerequisite to PhD study.

## **Program Specific Outcomes (PSOs)**

### **BA ENGLISH**

PSO1. Literature or the fine arts contribute to the gradual civilization of man by activating his sense perceptions sharply so as to be quick enough to react to their appeal.

PSO2. These arts appeal to the emotional aesthetic reflective intellectual meditative and spiritual faculties of man. Utility is the criterion of mechanical arts.

PSO3. On the other hand, literature is a mode of reflecting reality, intending to appeal to the various faculties of sensitive sensible and sentient man.

PSO4. It also offers pleasure. Besides it helps the learner to know the noble values in life making him a responsible citizen of this world and leads him to make the place more worth living.

PSO5. Simultaneously this course will help the students to improve communicative skills in English.

PSO6. The students will demonstrate an ability to revise for content and edit for grammatical and stylistic clarity and they will develop an awareness and self-confidence in their own voice.

PSO7. Literature appeals to the emotional, aesthetics, reflective intellectual, meditative and spiritual faculty of man, literature also offers pleasure with mode of reflecting reality intending to appeal to the various faculties of sensitive and sensible man.

### **BA MARATHI**

PSO1: Enhance empathy, inclusiveness, and tolerance and human values.

PSO2. Learn Marathi culture with its variety and plurality in Indian society.

PSO3. Go through the contemplation by numerous thinkers on human life, values, and human problems expressed in Marathi.

PSO4. Create an interest in Marathi reading, writing and communication skill.

PSO5. Availing the job opportunities in translation, transformation and media.

PSO6. Develops the literary research attitude in order to fulfil needs of growing societies and Nation

## **BA HINDI**

PSO1. Students get information about social relations among the people through stories to develop social morals.

PSO2. Students get information about education system and they also promote to stop dowry system and another problem in society by reading literature in Hindi language.

PSO3. Course Student know about Hindi prachin kavita , also know modern poem it gives human value's , social commitment. These poems also promote students to develop sensitiveness and also Develop humanity.

PSO4. Student know new compose like dairy and letter of renowned authors.

## **BA GEOGRAPHY**

PSO1. To enable students to understand the geographical location with the help of imaginary lines.

PSO2. To acquaint the students about the distribution of continents and oceans in past and present.

PSO3. To study the process of rock formation and mechanism of weathering.

PSO4. To understand the work of various erosional agents on the earth surface.

PSO5. To acquaint the students with the utility and applications of Physical geography in different fields and environment.

## **BA HISTORY**

PSO1. Cover an important topic of History of Indian Freedom Movement 1857 to 1950.

PSO2. The course broadly covers the basic information in this period.

PSO3. The syllabus provides chronological sequence of the “units” of the subject matter with proper placement of topics with their linkage for better understanding.

PSO4. Develop an interest in student to study the history as discipline.  
For making learning of history more relevant, meaningful and interesting.

PSO5. Develop positive attitude and appreciate contribution of freedom fighters towards the independents of India



## **BA POLITICALSCIENCE**

PSO1. Student will understand major fundamental concepts and dimension in Indian Constitution and political system.

PSO2. It highlights various aspects of political system.

PSO3. This paper would be assets of any kind of educational institutions as well as beneficial to all types of competitive exams.

PSO4. Students will use various political concepts and ideology to analyze new situations.

PSO5. Students can work as political analyst, political party adviser, as a research scholar or can be a freelance political thinker and writer.

## **BA ECONOMICS**

PSO1. To introduce various issues in the Economy of Maharashtra to students.

PSO2. To enhance the knowledge of the Students about Social and Economic Problems before the Economy of Maharashtra.

PSO3. To prepare students for competitive exams.

PSO4. Acquire knowledge of economics theories and principles and their applications as well as identify the basic concepts and theories of microeconomics and macroeconomics.

PSO5 .Understand and study the meaning, functions and role of central and commercial banks in the Indian economy. PSO4. Determine economic variables including inflation, unemployment, poverty, GDP, balance of payments etc.

PSO6. Understand the behavior of financial and money markets and perform cost-benefit analysis for making investment decisions.

PSO7.Acquire knowledge about theories of economic growth, development and issues of economic planning.

## **BA DEFENCE STUDIES**

PSO1. To study the development of Indian Army, Navy and Air Force.

PSO2. Become familiar in evaluation of military system of modern India.

PSO3. Ability to move from LOTS (lower order of thinking skill) to HOTS (higher order of thinking skill) in military system of modern India.

PSO4. Modernization of Indian Army to study of the role of British Empire.

PSO5. Nationalization of the Indian Army.

## **BA PYSCHOLOGY**

PSO1. To impart knowledge of the basic concepts and modern trends in Psychology.

PSO2. To make the students aware of the applications of Psychological concepts in various fields.

PSO3. To elaborate the concept of personality, types and trait theories of personality and self-concept as well as SWOT analysis and SMART.

PSO4. To elaborate the concepts of motivation and emotions, its types and effect emotions on Physical and mental health to the students.

## **MA ENGLISH**

PSO1. To familiarize students with the foundational concepts and principles of literary theory.

PSO2. To introduce students to a range of critical approaches and their application to literary texts.

PSO3. To enhance students' knowledge of literary criticism's influence on the interpretation and study of literature

PSO4. To develop students' analytical and interpretive skills in relation to literature.

कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव  
मानव्यविज्ञान विद्याशाखा  
NEP 2020 नुसार  
एम.ए.मराठी  
सत्र पहिले व दुसरे

Program Specific Objectives for M.A. Marathi First Year

Program Specific Objectives	Program Specific Outcomes (PSO's)
1. मराठी भाषा व वाङ्मय यांच्याशी संबंधित विषयांचे ज्ञान विद्यार्थ्यांना देणे.	1. वाङ्मयाचा इतिहास, समीक्षाशास्त्र, ग्रामीण साहित्य, वाङ्मय प्रकार, साहित्यकृतींचा अभ्यास या संबंधित मुलभूत विषयांचे ज्ञान प्राप्त होईल.
2. विद्यार्थ्यांची वाङ्मयविषयक चिकित्सक दृष्टी विकसित करणे.	2. वाङ्मयाचे सूक्ष्म आकलन व चिकित्सक भान त्यांच्यामध्ये येईल.
3. विद्यार्थ्यांच्या सर्जनशील लेखनाला प्रोत्साहन देणे व त्यांची संशोधनदृष्टी प्रगल्भ करणे.	3. विविध अंगांनी भाषा व साहित्य समजून घेतल्यानंतर सर्जनशील लेखनाची प्रेरणा निर्माण होईल.
4. भाषिक कौशल्यांच्या माध्यमातून विद्यार्थ्यांच्या व्यक्तिमत्व विकासासाठी प्रयत्नशील राहणे.	4. आधुनिक माध्यमांसाठी लेखन, मराठी भाषा आणि कौशल्य विकास, तंत्रज्ञान अशा अभ्यासपत्रिकांच्या माध्यमातून भाषिक कौशल्याचा विकास होईल आणि रोजगाराच्या संधीचे मार्ग खुले होतील.
5. भाषिक कौशल्य व वाङ्मयदृष्टी यांच्या माध्यमातून प्राप्त होणाऱ्या रोजगाराच्या संधीचा परिचय करून देणे.	5. संशोधन पद्धतीचे आकलन होऊन प्रत्यक्ष वाङ्मयीन संशोधनातील पद्धतीचे उपयोजन करण्यास शिकतील.

## MA HINDI

पाठ्यक्रम के उद्देश्य :

PSO1. कहानी विधा से छात्रों को परिचित कराना।

PSO2. हिंदी साहित्य के श्रेष्ठ कहानीकारों की कहानियों से अवगत कराना ।

PSO3. हिंदी की श्रेष्ठ कहानियों के माध्यम से छात्रों के व्यक्तित्व का विकास करना ।

PSO4. हिंदी कहानियों के माध्यम से छात्रों में सामाजिक संवेदनशीलता, राष्ट्रीय एकात्मता, सामाजिक समरसता आदि मूल्यों को संवर्धित करना ।

PSO5. उपन्यास विधा से छात्रों को परिचित कराना।

PSO6. हिंदी साहित्य के श्रेष्ठ उपन्यासकारों के उपन्यासों से अवगत कराना ।

PSO7. हिंदी के श्रेष्ठ उपन्यासों के माध्यम से छात्रों के व्यक्तित्व का विकास करना ।

PSO8. हिंदी उपन्यासों के माध्यम से छात्रों में सामाजिक संवेदनशीलता, राष्ट्रीय एकात्मता, सामाजिक समरसता आदि मूल्यों को संवर्धित करना ।

पाठ्यक्रमकी उपादेयता :

1 कहानी विधा से छात्रों को परिचित हुए।

2 हिंदी की श्रेष्ठ कहानियों के माध्यम से छात्रों के व्यक्तित्व का विकास हुआ।

3 हिंदी कहानियों के माध्यम से छात्रों में सामाजिक संवेदनशीलता, राष्ट्रीय एकात्मता, सामाजिक समरसता आदि मूल्यों के संदर्भ में जागृती निर्माण हुई ।

4 हिंदी साहित्य के श्रेष्ठ उपन्यासकारों की उपन्यासों से अवगत हुए।

5 हिंदी के श्रेष्ठ उपन्यासों के माध्यम से छात्रों के व्यक्तित्व का विकास हुआ।

6 हिंदी उपन्यासों के माध्यम से छात्रों में सामाजिक संवेदनशीलता, राष्ट्रीय एकात्मता, सामाजिक

समरसता आदि मूल्यों के संदर्भ में जागृती निर्माण हुई ।

7 उपन्यास विधा से छात्र परिचित हुए

## MA HISTORY

PSO1. Skill base course will get the skill in students, required for job. The skill base courses can also help the students in having their own start up so that they can create employment.

PSO2. Discipline Specific course and elective course will motivate students to gain depth in the area. Use of this course students can opt for competitive exams as a special subject as a history ,in their future research.

PSO3. The course fulfils the need of required qualification for job related to subject program.

PSO4. Auxiliary and ancillary related papers will provide opportunity to build a career in history, course like archaeology, Archives Research Methodology, on job training, field project etc. will open job avenues like Director ,Technician , curator ,translator , script writer and reader, private collection, professional history writer and designer .

PSO5. Paper like value education Students will contribute to the Heritage awareness and proud of Indian culture & Society, National Integration-Unity in Diversity.

## MA POLITICAL SCIENCE

PSO1. The Paper deals with the theoretical evaluation of Concepts and Approaches of Foreign Policy.

PSO2. To study of Basic Principle and Elements of Foreign Policy.

PSO3. Explaining Scope and Nature of Foreign Policy.

PSO4. To examine the role of Diplomacy in Foreign Policy.

PSO5. Evaluating the how important Foreign policy for Nations

## B.Sc. PHYSICS

PSO1. To provide education in physics of the highest quality at the undergraduate level and generate graduates of the caliber sought by industries and public service as well as academic teachers and researchers of the future.

PSO2. To acquire deep knowledge in fundamental aspects of Physics and basic knowledge in the specialized thrust areas like Mechanics, Dynamics and Properties of Matter , Electricity, Electrostatics, Dielectrics, Magnetism, Electromagnetism and Mathematical physics.

PSO3. To develop ability among the students to identify, remember and grasp the meaning of basic facts, concepts and principles of Physics.

PSO4. To develop observational skills, confidence in using scientific equipment and relate the knowledge of scientific concepts to quantitative and physical measurement. Acquire knowledge, skills, working methods and ways of expression which will reflect on all round development of the students' attitudes towards scientific thinking and its applications.

PSO5. To develop attitudes such as concern for accuracy and precision, objectivity, and Enquiry. The overall aim is to provide comprehensive knowledge and understanding in the relevant fields and enable students to pursue the physics subject at an advanced level later and to attract outstanding students from all back grounds.

## B.Sc. CHEMISTRY

PSO1. The students after completing course at graduation level in chemistry will develop an understanding of major concepts, theoretical principles and experimental findings in chemistry.

PSO3. They will have an ability to work effectively in diverse teams in both classroom and laboratory.

PSO4. They are able to employ critical thinking and efficient problem-solving skills in the four basic areas of chemistry (analytical, inorganic, organic, and physical).

PSO5. They are able to conduct experiments, analyze data, and interpret results, while observing responsible and ethical scientific conduct.

PSO6. They are able to use modern library searching and retrieval methods to obtain information about a topic, chemical, chemical technique, or an issue relating to chemistry.

### **B.Sc. BOTANAY**

PSO1. Students will be fundamentally strong at core subject of plant science and able to identify, classify plants species belonging to different group and knowing their utility.

PSO2. Student will be able to understand inheritance, cellular, molecular, physiological, biotechnological, phenomenon processes and recognize disease of plant, their pathogens and control measures.

PSO3. Students will be able to understand the nature, ecosystem, sustainable development and latest technological trends and apply fundamental result research concepts.

PSO4. Student will be able to understand the relationship between plants, animals and their environments helps ecologists and environmental scientists comprehend ecosystems, dynamics, nutrients cycling and biodiversity.

PSO5. Student will be to understand how plant respond to climate change and their impact on the global carbon cycle.

### **B.Sc. ZOOLOGY**

PSO1. Students are able to know about similarities and difference along with phylogeny amongst different organism. Also students will be able to present and write data collection, data fixation and scientific method to gain the knowledge and confidence.

PSO2. Students know about different types of animals and to gain the detail knowledge on animal physiology. Student know about different biomolecules of the cell with their role in an structure and functional aspects of cell

PSO3. To develop skill and understand the use of laboratory instruments . they realized and understand disease of human beings, molecular disease as well as basic body function. To improve scientific attitude, scientific awareness among the students.

PSO4. To motivate students to make career in zoology. They learn about different biological reaction mechanism, development reproduction and behavior of different types of separation.

PSO5. Student will be aware about the animal conservation, animal rights and low. Students will acquire skills in the micro-techniques, sericulture and other applied branches of zoology.

## **B.Sc. MATHEMATICS**

PSO1. A primary need for the establishment of this course is to understand the basic knowledge and applications of matrices in various fields.

PSO2. The main objective is to teach mathematical approaches and models to grow mathematical skill, to improve mathematical thinking and to improve choice making power of the students.

PSO3. To be well grounded in the basic manipulative skills level of Algebra, Calculus, Differential Equation, Number Theory, Analysis, Linear Algebra, and Graph Theory.

PSO4. To develop and understand the value of proof, the single factor that distinguishes mathematics from all other disciplines, and will demonstrate proficiency in writing and understanding proofs.

PSO5. To gain experience investigating the real world problems and learn to how to apply mathematical ideas and models to those problems.

## **B.Sc. ELECTRONICS**

PSO1. To develop ability of students to apply concepts of Electronics to real life problems. To prepare the students for successful career in industry and motivate them for higher education.

PSO2. To provide exposure to the students for analyzing electronics problems. To provide knowledge on analog communication and their applications for the society.

PSO3. To provide necessary foundation on microprocessors.

PSO4. To develop observational skills and confidence in using microprocessors and relate the knowledge of practical concepts for the development of the society.

PSO5. To apply the concepts of Electronics at an advanced level in everyday life of people and appreciate its role to analyze the emerging problems from a societal perspective.

## **B.Sc. MICROBIOLOGY**

PSO1. Microbiology graduates will apply their knowledge and skills gained through the program to achieve success in their academic and/or professional development.

PSO2. Our graduates can apply this knowledge for pursuing postgraduate education. The program shall promote them to choose varied career paths in various disciplines of the subject.

PSO3. Students will develop a sense of societal and ethical responsibility pertaining to health, agriculture, dairy, genetic engineering, and fermentation industry.

PSO4. The knowledge shall endure graduates to stand independently amidst the growing technological innovations in the subject.

PSO5. Individual will develop expertise in isolation techniques and diagnostic tests. Students will have understand a wide perspective on fermentation technology, GMP, GLP and IPR.

PSO6. Skill enhancement will improve individuals industrial and medical microbiology knowledge for their further development in industries and research methods.

PSO7. Discipline specific courses will give the opportunity to select their choice of interest subject so that they can move forward to their knowledge, abilities, skill effectively.

## **B.Sc. COMPUTER SCIENCE**

PSO1. Professionally trained in the areas of programming, multimedia, animation, web designing, and networking and to acquire knowledge in various domain-based electives.

PSO2. The ability to employ modern computer languages and applications for their successful career, to create platforms to become an entrepreneur and a relish for higher studies.

PSO3. Students to have knowledge and expertise in at least one procedure-oriented and object-oriented programming language. To have a wide perspective on software development including web based. Applications as well as graphic applications.

PSO4. Students to have the ability to design and implement optimal databases using current technologies. Students to have the familiarity with Desktop Publishing system.

PSO5. Students will be able to design and analyze algorithms as per need by relating the data structure and algorithms. Students to understand design and working principles of the digital electronics.

PSO6. Students will be able to identify and describe the communication networks technologies in local area networks and the Internet and countermeasures for security threats.



## **M.Sc. CHEMISTRY**

PSO1. To learn the principals and foundations of quantum chemistry, to acquire knowledge about the different possible equilibrium in nuclear decay processes, to learn the theory and concepts behind the electrochemical processes and ionic equilibria. To orient and acquaint the PG students towards the statistical thermodynamics.

PSO2. Study of basic concepts of organic chemistry, reaction intermediates, different classes, mechanism & stereochemistry of reactions.

PSO3. The course helps to build up a conceptual framework for understanding the principles and theories for chemical bonding and properties of inorganic compounds

PSO4. The course helps to furnishes the basic concepts of group theory and its applications for various inorganic compounds

PSO5. This course covers both fundamental and practical aspects of chemical analysis. The student will learn about instrumentation, working and applications in chemistry.

## **M.Sc. BOTANY**

PSO1. The student should be able to study salient features of Algae, Fungi and Bryophytes and to know the diversity of Cryptogamic plants in nature. Also to study the life cycle patterns in cryptogams.

PSO2. The student should be able to study molecular biology about genetic material, its replication and principal molecular events of cell incorporating DNA Replication, Transcription and Translation in prokaryotic as well as eukaryotic organisms.

PSO3. The student should be able to study recent APG system of classification and evolutionary trends and to study morphological peculiarities and biological importance of plants.

PSO4. To study aims, principles and methods in taxonomy. recent APG system of classification and evolutionary trends and study morphological peculiarities and biological importance of plants

PSO5. Understand the knowledge of advanced techniques in Biotechnology biology used in study of plants

## **M.Sc. ZOOLOGY**

PSO1. Provide students with a comprehensive understanding of the core concepts, principles, and theories in zoology. Develop a solid foundation in areas such as animal physiology, ecology, behavior, evolution, taxonomy, and conservation. Introduce students to research methodologies, data analysis, and scientific writing.

PSO2. Offer advanced courses in specific areas of zoology, allowing students to deepen their knowledge and expertise in their chosen field of interest. Explore specialized topics such as animal behavior, population dynamics, molecular genetics, evolutionary biology, and ecological conservation. Foster critical thinking and problem-solving skills by analyzing and evaluating complex scientific problems within the chosen specialization.

PSO3. Provide hands-on practical experiences through laboratory sessions, fieldwork, and data collection in natural habitats. Develop practical skills in techniques such as specimen collection, taxonomic identification, data recording, and experimental methodologies. Enhance observational and analytical skills by conducting field surveys, ecological studies, and animal behavior observations.

PSO4. Engage students in independent research projects, allowing them to apply their knowledge and skills to investigate scientific questions in zoology. Develop research proposals, design experiments, collect and analyze data, and interpret and present research findings. Enhance critical thinking, problem-solving, and scientific communication skills through research work.

## **M.Sc. COMPUTER SCIENCE**

PSO1. The student should be able to identify problems that are amenable to solution by AI methods and identify appropriate AI methods to solve a given problem.

PSO2. Design smart system using different informed search / uninformed search or heuristic approaches. Apply the suitable algorithms to solve AI problems.

PSO3. Write about Optimization and decision making. Differentiate between feasible and optimal solution and apply solving techniques to game theory problems.

PSO4. Develop high performance applications, acquire knowledge of secure and flexible framework and learn ease of use of databases in projects. Build self-contained and ready to run applications

PSO5. Recognize the characteristics, applications of big data that make it useful to real-world problems. Process available data using big data tools hadoop file system and predict outcomes to solve given problem. Study & Design various case studies using big data tools/commands and analyze it.

## **M.Sc. MICROBIOLOGY**

PSO1. To introduce with structure and metabolism of macromolecules, the regulation of metabolic pathways and role of microbes in industry, health and environment.

PSO2. Developing skills in laboratory techniques in both microbiology and molecular biology and apply scientific methods to the processes of experimentation and hypothesis testing.

PSO3. Gain an understanding of various aspects related to microbiology including biochemical techniques, immunology, physiology, agriculture, environment, pharmaceutical, molecular biology, applied recombinant DNA technology and technical skills related to microbial metabolites.

PSO4. Develop the ability to understand principle and scientific ethics in research methods and aware the influence of science on society to change their research perspective.

PSO5. Enhancing with the team management skills as well as individual work abilities to retrieve information, carry out Research investigations and result interpretations.

## **M.Sc. GEOGRAPHY**

PSO1. Student will be able to understand the unifying themes of both human and physical geography as well as have a working knowledge of the discipline's diverse conceptual and methodological approaches.

PSO2. Demonstrate an ability to develop research questions, critically understand quantitative and qualitative data sources, data bias, and data analysis and presentation, and conduct research using primary and/or secondary source material.

PSO3. Student will be able to apply geographical knowledge for the exploration of GIS, Remote Sensing, and geographical resources.

PSO4. M.A / M. Sc. Geography program is structured for providing advances and by considering the overall development of students.

PSO5. Student will be able to work in public and private sector companies working in the field of GIS, Tourism, and Cartographer.

## **B.Com**

PSO1. Student will acquire the knowledge about the various types of various organizations, office management, taxation, costing security analysis, portfolio management, investment accounting, designing capital structure and related.

PSO2. Student will be able to cater knowledge on all the three branches of accounting viz. Financial, Cost and Accounting.

PSO3. Student will be able to cope up with requisite of the entrance and intermediate exam for organized professional courses like CA, CS and Cost and management accountant, Chartered Financial Analyst.

PSO4. Student will be well-versed in concept relating to entrepreneur knowledge in financial institutions project report incentives and subsidies.

## **M.Com**

PSO1. Understand basic knowledge about Industrial Economics. It also provides a detailed understanding of different theories of Industrial Economics

PSO2. To know and understand main concepts & level of Strategic Management. To understand the strategic planning, business policy and implementation in the organization

PSO3. To study Research Methodology for decision making in business It To overview the methods of Data Collection .To understand process of research by students for preparation of research report. To know the hypothesis testing techniques

PSO4. Understand the advanced aspects of accounting relating to company liquidation, Holding company. Understand the method of presenting financial statements by Insurance companies

PSO5. To acquaint with the subject of Cost Accounting and its significance. To help students to assign overhead and indirect costs to products and services. To enable students comprehend how goods are valued when transferred among division, and associate companies.

## **BCA**

PSO1: At the end of the program students understand, analyze and develop computer programs in the areas like Web Design, Database manipulation, Windows & Mobile Application.

PSO2: At the end of the program students understand, object-oriented programming features through various programming languages.

PSO3: At the end of the program students are able to create dynamic, Interactive webpage's using various web technologies.

PSO4: At the end of the program students understand the use of structured query language and its syntax, transactions, database recovery and techniques for query optimization.

PSO5: At the end of the program students are able to work in the IT sector as system engineer, software tester, junior programmer, web developer, system administrator, software developer etc.

PSO6: If chosen particular elective at the end of the program students are able to analyze very large data sets in the context of real-world problems using various data analytical tools.

PSO7: If chosen particular elective it will help students to develop in depth understanding of the key technologies in AI, data mining & machine learning.

## **BBA**

PSO1. To equips student with an understanding of the competitive environment in which private and a public sector organization operate.

PSO2. Provides student with the analytical and operational skills to resolve business problems in both sectors.

PSO3. Aims at developing a student's intellectual ability, executive personality and managerial skills through an appropriate blending of business and general education.

PSO4. To assists the student in understanding and developing the unique leadership qualities required for successfully managing business functions, an organizational unit or an enterprise.

PSO5. Helps introduce students to a range of core business disciplines, including marketing, accounting, human resources management, internet systems and organizational behavior

## **BMS**

PSO1. To prepare students for respectable career in the business management domain where management is augmented by information communication technology, commerce and management

PSO2. To develop inter-twining competence in the field of Commerce and Management, Computing Skill and Computational Tools.

PSO3. To develop the basic programming skills to enable students to build application program, websites.

PSO4. To develop the foundation for higher studies in the field of business administration, computer applications and computer management.