

PROGRAM SPECIFIC OUTCOMES

M.A. GEOGRAPHY

Students are able to:

- PSO1:** Understand not only the place where they live in but also about the lives of people living in other areas of the interconnected world. It also enhances understanding of the relationship between the global and the local level and the outcomes of these relationships (relationship between global processes and their local manifestations).
- PSO2:** Have deep knowledge about places, regions and spatial relationship as result of series of inter-related factors of nature, culture and individual human actions.
- PSO3:** Make the social and cultural differences (race, ethnicity, gender, age, class) their geographical embeddedness.
- PSO4:** Sensitize the need to conserve environment, resources in order to have a more sustainable earth.
- PSO5:** Have the theoretical knowledge with local realities by making field visits to different areas.
- PSO6:** Use and map the digital spatial data in more rational way.
- PSO7:** Understand the paradigm shifts all along with the process of historical development of geography as a subject of learning.

M.A. ENGLISH

- P.S.O.1.** Firm orientation in English Literature and Literary Studies
- P.S.O.2.** Ability to contextualize literature in a wider intellectual backdrop
- P.S.O.3.** Ability to relate literature to a wider artistic context

- P.S.O.4.** Ability to comprehend literature in a wider cultural and philosophical context
- P.S.O.5.** Better developed humanistic and cosmopolitan perspective
- P.S.O.6.** Ability to write correctly and critically
- P.S.O.7.** Enhanced competence in the use of English language phonologically and syntactically and improved abilities for employment
- P.S.O.8.** Eligibility to teach English Language and Literature at College and university levels.

M.A. HINDI

Programme Specific Outcomes

- P.S.O 1** आधुनिक काल में रचित हिंदी कविता की विविध प्रवृत्तियां को महत्वपूर्ण कवियां और कविताओं द्वारा समझना।
- P.S.O 2** आधुनिक काल में रचित विविध गद्य विधाओं का आलोचनात्मक अध्ययन ताकि उनके माध्यम से साहित्य एवं समाज के अन्तरसम्बन्ध की जानकारी हो सके।
- P.S.O 3** 1050 ई. से अब तक रचित हिंदी साहित्येतिहास की विविध सोपानों के माध्यम से जानकारी।
- P.S.O 4** भाषा एवं विज्ञान, कोश विज्ञान, शली विज्ञान लिपि की वैज्ञानिक जानकारी प्रदान करना।
- P.S.O 5** जनजीवन में गहरी पैठ बनाने वाले कवि कबीर की बानी की निर्गुण साहित्य परम्परा को जानना।
- P.S.O 6** समन्वयवाद के प्रसूता तुलसीदास साहित्य को रामभक्ति काव्य के संदर्भ में समझना।
- P.S.O 7** भक्ति, श्रृंगार और वात्सल्य रस के चित्रण में बेजोड़ सूरदास को कृष्णभक्ति के माध्यम से समझना।

M.A. POLITICAL SCIENCE

Political Science is the study of the political world in a comparative sense, including the behavior, organizations, institutions and philosophical foundations of political life from the level of individuals to the international setting in both contemporary and historical contexts. In addition, political science makes the

connection between theory and practice at the ground level by preparing students for active lifelong participation and leadership in democratic society.

It will make students able to:

PSO1: Understand the basic concepts and theories pertaining to political science

PSO2: Analyze the interrelationship among the historical, political, economic, cultural and geographic dimensions in political science

PSO3: Apply research methods, description, analysis, interpretation and explanation of aspects of political science

PSO4: Address problems related to political science in a cooperative manner.

PSO5: Students will demonstrate substantive knowledge of concepts and facts relevant to Political Science.

M.COM

PSO1: Students will be able to understand the role of business-men, entrepreneurs, managers, consultants, and the same is required for critical decision making.

PSO2: This course provides a learning environment to the students through students can understand the global and national perspective of the economy.

PSO3: The course will provide the skills required for effective communication, decision making techniques which are useful for day to day routine business problems.

PSO4: The course provides a platform for the researchers to get new dimensions for the economy. Through this programme the students will involve in various co-curricular activities; and demonstrate their practical and theoretical knowledge; and gain practical exposure in corporate world.

PSO5: Students can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services.

PSO6: Students will be able to do higher education and advance research in the field of commerce and finance.

PSO7: Students are able to understand and develop ethical, logical and professional behavior.

PSO8: It helps the students to demonstrate adequate skills, knowledge and ability to nurture them for tackling the different situations of the life for their overall development.

M.SC. (CHEMISTRY)

PSO1: Understand nature of bonding and hybridization of compounds.

PSO2: Analyse the reaction mechanism and structure of transition metal complexes.

PSO3: Understand the quantum mechanics, thermodynamics and Electrochemistry.

PSO4: Analyse the bonding and stereochemistry of organic molecules.

PSO5: Understand the various instrumental techniques for structural study of the Compounds.

PSO6: Perform thermodynamic and surface studies of the liquid mixtures.

PSO7: Understand nuclear, radio analytical techniques and corrosion technology.

PSO8: Analyse the bioorganic, bioinorganic chemistry and heterocyclic chemistry and their applications.

M.SC. (MATHEMATICS)

PSO1: Communicate concepts of Mathematics and its applications.

PSO2: Acquire analytical and logical thinking through various mathematical tools and techniques.

PSO3: Investigate real life problems and learn to solve them through formulating mathematical models.

PSO4: Attain in-depth knowledge to pursue higher studies and ability to conduct research. Work as mathematical professional.

PSO5: Achieve targets of successfully clearing various examinations/interviews for

placements in teaching, banks, industries and various other organizations/services.

M.SC. (PHYSICS)

PSO1: The students would be able to realize various applications with proper understanding of linear vector space and matrices, differential equations, special functions, series expansion and integral transforms. The students are enabled to understand the motion of a mechanical system using Lagrange and Hamilton formalisms, concept of central force motion and moving coordinate systems and theory of small oscillations.

PSO2: The students would be able to understand the concepts of Quantum mechanics and capable to solve problems such as hydrogen atom, determination of the energies and wave functions of first and second order. The students would be able to explain ground state of hydrogen and helium molecules and analyse various transitions and their selection rules.

PSO3: The students would be able to explain basic physics and application of different types of electronic devices, familiarization with integrated circuit fabrication technology, design of switching circuits and to seek career in advance research.

PSO4: The students would be able to apply ensemble theory to complex problems, analyze the peculiar gas behaviour and explore the applications of Ising Model and different approximations.

PSO5: Analysis of effect of doping in semiconductor materials, carrier concentration and mobility, fabrication of various active & passive circuit components and metal semiconductor junctions, devices in the microwave region and related applications. In addition, the student will be able to differentiate between different lattice types, explain motion of electron in

periodic lattice, understand lattice vibrations in solids and explain various types of magnetic phenomena and possible applications.

PSO6: The student will be able to explain Raman effect and different types of Raman spectra, Electronic spectra and electronic bands using Born Oppenheimer approximation and Frank Condon principle and origin of x-rays and different types of x-rays alongwith emission and absorption spectra. The students would be able to appreciate NMR, ESR and Mossbauer spectroscopy and related applications in the field of spectroscopy/material science/ lasers.

PSO7: Understanding the nature of a specific numerical problem, designing programs in different languages, new necessary basic knowledge of various web enabling languages like HTML and JAVA to acquire a vision for use of computer in research prospective.

PSO8: The students will be able to implement Boolean expressions, design basic building blocks of ICs for different operations and develop building blockes for ICs using MOSFET. The students will be able to understand the fabrication process of solar cells, photodiodes, PMT's etc. and realize operational amplifier and related applications such as comparator, A/D & D/A convertor, oscillators etc.