Acharya Shri Mahapragya Institute of Excellence, Asind - 311301 (Raj.)

PROGRAMME OUTCOMES PROGRAMME SPECIFIC OUTCOMESCOURSE OUTCOMES

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Principal

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The following POs and COs are based on the syllabi set by theMDS University, Ajmer-

1. Programme Outcomes of Geography (UG)

The sample program outcomes of the different papers offered are presented below. After completion of the course, the student will be able to:

- PO 1- To understand knowledge of physical geography. They will gather knowledge about the fundamental concepts of Geography andwill have a general understanding of the geomorphologic and geotectonic process and formation. Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics.
- PO 2 - To understand knowledge about the physical, social, and cultural aspects of Rajasthan
- PO 3 - Gain knowledge about major themes of human Geography. Acquire knowledge on the history and evolution of humans. Understand the approaches and processes of Human Geography as well as the diverse patterns of habitat and adaptations.
- PO 4 - Understand the concept of economic activity, and factors affecting the location of economic activity. Gain knowledge about different types of Economic activities.
- PO 5 - Know about the physical, social, and cultural aspects of all continents.
- PO 6 - Know about the physical, social, and cultural aspects of India.
- PO 7 - Comprehend the concept of scales and representation of data through cartograms. Learn the usage of survey instruments. Develop anidea about different types of thematic mapping techniques and projections.

2. Programme Outcomes of Hindi Literature (UG)

- PO 1 – To Understand the origin and development of Hindi Language & Literature
- PO 2 – To Understand poetry from the beginning concerning Adikaal and Bhakti movement including the texts of Sant,Sufi, Krishna and Ram dhara poets.
- PO 3 – To Understand the poetry of the Reetikaal (Specially Ritibaddh,Ritisiddh and Ritisiddh)
- PO 4 - To Understand the origin and development of the modern One Act Play and Drama . (Specially about Raktdhwaj)
- PO 5 - To Understand the modern poetry. (Specially from Maithili sharan Gupt to Naresh Mehta)

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- PO 6 - To Understand the Origin and development of Hindi novelconcerning Jyon mehandi ke rang & To Understand the Origin and development of Hindi stories about nine stories of modern writers.

3. Programme Outcomes of History (UG)

- PO 1 – Understand the Foundation of Indian Culture throughout theages.
- PO 2 – Learn about Ancient Indian History from the Stone Age to 1200AD along with socioeconomic and cultural aspects.
- PO 3 – Understand the political, social, and economic aspects of the Medieval age of India along with its culture.
- PO 4 – Able to understand the transformation of Rajasthan from theearliest times to 1949 A.D.
- PO 5 – Gain knowledge of the Indian freedom movement under variousleaders, the Gandhian era and the impact of British policies on India.
- PO 6 – Understand the major events of Modern World History.

4. Programme Outcomes of Political Science (UG)

- PO 1 - Students can understand the basics of Political theory. They can differentiate between traditional and modern Political theory. Modern Political theory concepts like power, political modernization, political culture and political system will be useful to them in understanding the basics of political science.
- PO 2 - Students can develop a comprehensive approach towards politics and political systems by gaining knowledge about Ancient political thinkers.
- PO 3 - Students can develop a deep knowledge of Indian Government and politics by knowing the Indian constitution and other aspects of Indian politics.
- PO 4 - The knowledge of comparative politics will be useful to students to understand other countries' political systems and processes.
- PO 5 - The knowledge of international Relations will be helpful to them in developing an understanding of international Relations, international organizations, India's relationship with other countries, and other countries' foreign policies.
- PO 6 -The knowledge of Western political thoughts will develop a comprehensive and deep knowledge of political science concepts and theories.

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1 Programme Outcomes Commerce (UG)

- PO-1 Economic environment in India, Economic planning population growth new population policy unemployment poverty disparity of income and wealth in India self-employment skill development human resources and economic development industries agriculture land reformsforeign trade in India export-import policy, investment of foreign capital in India role of multinational corporations' economy of Rajasthan basic characteristics of the economy of Rajasthan
- PO-2 Business Economics, roll concept economic concepts of Kautilya arthshastra economic law static and dynamic economics micro macro atomic models consumption law economic problems and functions law of demand elasticity relationship with revenue in different curve consumer equilibrium income effect price effect derivation of demand curve law of returns ISO product curve returns to sale capital formation efficiency of labour importance of cost in decision making commodity pricing change in demand and supply I and their effect on equilibrium price time element in price determination market definition and classification price output imperfect competition discriminatingMonopoly and only go poly marginal productivity theory theories of rentwages interest and profit national income, etc.
- PO-3 Cost accounting– nature, method, technique, installation of costing system, audit, accounting for material, labour, overheads, unit costing, job /batch/contract costing, operating process costing, Integral, nonintegral system reconciliation of cost and financial accounts.
- PO-4 - Business Statistics, application collection of data, classification,partition, value dispersion, measurement of Central tendency analysis of bivariate data linear regression correlation index number problems in constructing index number consumer price index analysis of time series decomposition average arithmetic progression geometric progression harmonic progression statistical quality control interpellation binomial method etc.
- PO-5 Business Management: management meaning nature principle and importance of management thoughts objectives strategic management coordination planning organization controlling modern techniques of communication leadership motivation management of change resistance to change origins of management in changing in a changing environment
- PO-6 Business Laws - Indian Contract Act 1872, sales of Goods Act 1930, Consumer Protection Act 1986, Negotiable Instrument Act 1881, partnership act 1932.

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- PO-7- Financial Accounting and Decision making, financialaccounting and decision making department and branch accounts accounting for investment in the stock market transaction insurancechange claim marginal costing value added statement economic value added market value added to change your product mix pricing break and even analysis exploring New Market shut down decisions budgeting for profit planning and control the meaning of budget types of budgets standard costing and variance analysis meaning of standard cost and standard costing activity based costing next business management corporate personality e kind of companies promotion and incorporation of company e memorandum of association articles of association prospectus shares share capital member transformation transfer transmission debentures and borrowing power directors managing director whole time director appointment rights liabilities remuneration company investigation prevention operation, mismanagement company meeting kinds quorum notice agenda no motion resolution methods of voting winding up kinds and legal provisions.
- PO-8- Corporate Accounting, the advance study of issue four feature reissue of shares redemption of preference shares valuation of goodwill and share final accounts including computation an aerial remuneration disposer profit accounting for amalgamation of companies as per Indian accounting standard 14 liquidation of companies, accounting for internal reconstruction, accounts of holding and subsidiary companies in India, consolidated balance sheet profit and loss account.
- PO-9 -Fundamentals of entrepreneurship, the emergence of the entrepreneurialclass, 3 years of entrepreneurship, qualities, promotion of ventureopportunities, analysis, interpret your behavior innovation, entrepreneurs psycho theories social responsibilities, entrepreneurship development program EDP role of government organizing EDP, role of interpreter, augment and meeting local demands role in export promotion and import substitution foreign earnings augmenting and meeting local demands.
- PO-10-Company Laws – meaning definition types promotion, memorandum of association, articles, prospectus, share capital members debenture borrowing power, director managing director companyinvestigation company meeting method of voting winding up legal provision.
- PO-11-Financial management, management meaning, scope, importance, limitations, ratio analysis, liquidity funds, flow analysis costof capital cost of debts effect on profit financial planning and forecastingcapital structure dividend policies Walter and Gordon's model cost-volume-profit analysis.

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- PO12- Banking law and practice in India banking legislation in India reserve Bank of India act 1934 act 1949 banking companies 1970 definition of term banker and customer termination of relationship types of accounts and their operations types of customers negotiable instruments concept elements types of check bill promissory notes promissory notes crossing endorsement presentation paying and collecting rights duties protection and precautions this owner investmentand lending of bank funds principle of investment meaning characteristicnature personal circular check traveler check the procedure of opening a letter of credit making payments of letters of credit fraud and its prevention.
- PO-13 - Income tax law and Accounts, introduction and definition, the residential status incidence of tax exempted, income, taxable income, under the head of salaries income from house property, income from business and profession computation of income from capital game income from other services aggregation of clubbing of income set off and carry forward of losses exempted income deduction from gross total income computation of total income and tax liability of individualscomputation of total income and tax liability of Hindu undivided family provisions regarding deduction of tax at source and advance payment of tax assessment procedure.
- PO-14 - Taxation - VAT and value of supply of goods and services intoinput tax credit transitional provisions registrations under VAT act feeling maintenance of accounts and record composition job work and procedure various exemptions demand and discovery rule of custom in international trade important terms and definitions under customs act 1962 assessable value baggage bill of entity durable goods duty exporterfor and going vessels aircraft goods bill of lading export manifest letter of credit import of goods free import of cargo import of personal baggage import of tax liability and valuation of goods computation of custom duty appeals and revisions nature and
- PO-15- Principles of Marketing, Nature and scope of marketing concepts traditional and modern selling versus marketing mix marketing environment concept of product brand name trademark product life cycle concept importance of price and marketing mix factors affecting the price of a product or service discounts and rebate and consumer behaviour market segmentation distribution channels methods of promotion characteristics of an effective advertisement personal selling publicity sales promotion and public relations physical distribution of goods transportation warehousing inventory control order processing.
- PO-16- Fundamentals of insurance introduction to insurance purpose and need of insurance as a social security tool principle of life insurance Marine fire medical general insurance contract of various kind insurable interest fundamental of agency law

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distribution of an agent agents regulation agents remuneration procedure for becoming as agent cancellation of license function of agent company profile organization set up of a company e promotion strategy market share important activities structure product pricing actuarial aspect distribution channel international marketing nature definition scope product planning for international market international pricing international distribution export policy and practices in India exam policy export finance pricing documentation produce assistance and incentives.

- PO-17 - Project planning and budgetary control project life cycle. Project feasibility analysis market technical financial business forecasting project budgeting methods payback AR npv I are zero-based budgeting project layout methods project organization structure marginalcost technique for project decision role of level and financial decision project financing use of networking techniques in project planning part CPM budgetary control budgetary control versus standard costing material variances and labour variances.
- PO-18 - Banking and financial system money meaning functional role type of money monetary standard methods of note issue alternativemeasures to the money supply in India that different components financial systems meaning credit creation by bank credit creation process determination of money supply and total bank credit value of money quantity theory of money fisher Cambridge and cancer approach international financial institution and its affiliated international monetary fund international Bank for reconstruction and development IFC ADB problems between the government and commercial sector intersectoral and international problems operation of conflicting pressures before and after Bank nationalization in 1969 banking and financial reforms in IndiaRBI function credit policy in present setting and limitations.

1. **Programme Outcomes of Botany (UG)**

- PO 1 - Analytic and rational thinking: knowledge of biology enables students to think in an analytical way about scientific world and do some innovations.
- PO 2 - Effective communication: In the course, students learn about systematic and evolution, diversity in flora the knowledge they can explore new species of plants and help other researchers to evaluate the species.
- PO 3 - Environment and sustainability: Students know the meaning of sustainable development so they become aware of the environment and adopt the strategy for the protection and conservation of Nature.

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- PO 4 - Self-directed and lifelong learning: practical of various papers like anatomy and morphology make students Curious to explore and develop research aptitude and the learning with practice enables the students that whatever they learn it's remains long-lasting.
- PO 5 - The students completing the course can identify various macro as well microscopic life forms, design and execute the experiments related to basic science including biotechnology evolution, recombination, molecular biology and genetics. Students are formalized with the use of bio information and statistical tools.
- PSO 6 – Students will be aware of different plant diseases, their causal organisms and their preventions.

2. Programme Outcomes of Chemistry (UG)

- PO 1 – Students may understand ionic bonding and covalent bonding, important compounds of s and p block elements, and noble gases chemistry. Chemistry of elements of first second and third transition series. Properties of lanthanides and actinides series. Understanding the concept of acid-base and non-aqueous solvents. Learn about the coordination of complex compounds and metal-ligand bonding and their properties. The student may be able to understand bioinorganic chemistry, inorganic polymers and their physical and chemical properties.
- PO 2 - Understand the type of organic compound, organic reactions and their mechanism, and stereochemistry of organic compounds. Understand preparation and properties of various organic compounds like alkane cycloalkane alkene cycloalkenesdienes and alkynes alkyl halides aromatic compounds and aryl halides alcohol phenol and ethers epoxide aldehydes ketones and carboxylic acid derivative and various nitro compounds like nitroalkanes nitroarenes amines diazonium salt.
- PO 3 – Students will be able to define the structure of organic compounds by using UV IR NMR spectroscopy. Understand organometallic compounds' organic synthesis via enolates heterocyclic compounds and various bioorganic compounds like carbohydrate amino acid protein-nucleic acid fats and oils. Learn about detergent synthetic polymers and synthetic dyes.
- PO 4 – Student will be able to define the basic difference between gaseous state liquid state solid state and colloidal state of matter and their chemical kinetics thermodynamics chemical equilibrium phase equilibrium electrochemistry. Mechanism of nuclear chemistry, quantum mechanics of photochemistry, and solutions and colligative

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properties.

- PO 5 - Understand practically qualitative analysis of inorganic mixer and organic compounds. Physical techniques like MP, BP of the organic compound and their recrystallization and sublimation properties. Understand quantitative analysis by volumetric and gravimetric method experiments and determine viscosity and surface tension of solution.

3. Programme Outcomes of Physics (UG)

- PO 1 - Students know about frame of reference and Galilean transformations. Coroilis force and its application. Students understand the special theory of relativity and length contraction. Students gain knowledge about the system of particles, energy and momentum conservation laws, rigid body motion and moment of inertia, and elastic properties of matter.
- PO 2 - Students come across simple harmonic oscillations, simple and compound pendulum, and damped harmonic oscillators. Students learn about transverse & longitudinal waves and their speed in a medium, and the difference between group velocity and phase velocity.
- PO 3 - Students learn about scalars and vectors, divergence & curl of a vector field, Gauss's divergence theorem, stokes theorem, electrostatic field, Poisson's & Laplace's equations in Cartesian, cylindrical and spherical polar coordinates.
- PO 4 - Distribution of molecular velocities and applications of Maxwell's distribution function such as average speed, RMS speed and most probable speed. Students learn about Clausius- clapeyronto and study the effect of pressure on melting point and boiling point. Maxwell's relations are important ones by which one can draw the expression for Joule-Thomson expansion at constant Enthalpy.
- PO 5 - Students learn about circuit analysis (Kirchhoff's laws) four terminal networks and various theorems that are useful for circuit analysis. Students study rectifiers such as half-wave, full-wave, and bridge rectifiers and filters. Configurations of transistors such as CE, CB, and CC are important ones. Students gain basic knowledge about Logic gates such as AND, OR, NOT, NAND, NOR, etc.
- PO 6 - Students study about laws of reflection and refraction, lens combinations etc. They learn what the aberration in the image is ? The phenomenon of Interference of light is an important one in optics. Students gain laser knowledge, what is spontaneous and stimulated emission, Einstein's A and B coefficients, population inversion etc.

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- PO 7 – Students learn about black body radiation, the quantum of energy and the Planck Quantum hypothesis. They learn about the ejection of photo electron from a metal surface at a particular frequency (photoelectric effect), the uncertainty principle, and time-dependent and time-independent Schrödinger equations. They also learn about simple harmonic oscillators.
- PO 8 - Rutherford scattering indicates the existence of a nucleus. Students learn about various properties of nuclei, nuclear fission and fusion, nuclear forces etc. They also learn about the basics of the classification of elementary particles.
- PO 9- Students learn about the bonding in solids, crystal structure, diffraction, and band theory. They also gain knowledge about energy band structures in semiconductors, conductors and insulators. They gain the basics of superconductivity which is the phenomenon of very low temperature (nearly 0K).

4. Programme Outcomes of Zoology (UG)

- PO 1 - To understand the diversity of animals and specimen types of invertebrates and the evolution of the organism
- PO 2 - To understand the basic idea of cell, cell organelle and nucleus and to know about Protein, genome, genetic code syndrome etc.
- PO 3 - To understand the basic concept of embryology such as gametogenesis, spermatogenesis, fertilization stem cell regeneration xenobiotic.
- PO 4 - To understand the structure and function of all type of invertebrates from Protozoa to echinodermata and with the other phylum
- PO 5 - To understand the physiology such as the digestion, circulation excretion, absorption of endocrine gland, and the biochemistry such as protein Carbohydrate and lipids, caban skeleton for an organism
- PO 6 - To understand immunology microbiology and biotechnology. The basic idea of antigen antibiotic and antigen, antibody reaction, and mechanism. The basic idea about the internal structure of Gram-Positive and negative which are harmful and useful bacteria. In Biotechnology to understand applications, uses, genetic engineering genetic recombinant, carrier vector dairy products etc.
- PO 7 - To understand the development, structure and function of organs of all the type of vertebrate animals. Basic knowledge about parental care migration and development of fins and wings

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- PO 8 - To understand the environment and Ecology ecosystem, succession, urbanization and different types of pollution. To know the classification of all classes of chordates vertebrate and lower chordates. Ecology experiments such as water and soil analysis and some exercises such as graphs histograms, mean mode median, SD and SE.
- PO 9 - To understand applied zoology such as different types of culture and the economic importance of various invertebrate concepts of behavior techniques of behavior and social of animals. Applications, uses and different types of exercise of biostatistics.
- PO 10 - To understand the basic knowledge about the microscope, reagents, and stains and to know about all the invertebrate type specimens according to the syllabus and to study the genetic exercise, mitosis and development of frog and chick
- PO 11 - Demonstration of larval stages and internal body parts of the invertebrate animals. The knowledge about culture medium and identification of Gram-Positive and Gram-Negative bacteria hemoglobin estimation and food test etc.

5. Programme Outcomes of Mathematis (UG)

- P0-1 The student will get advanced knowledge of principles, and methods, and a clear perception of and numerous powers of mathematical ideas and tools.
- P0-2 The student will be able to apply their skills and knowledge, that is translate information presented verbally into Mathematical form select and use appropriate mathematical formulae or techniques to process the information and draw relevant conclusions.
- P0-3 The student will be able to find out or analyze scientific reasoning for various things.
- P0-4 The student will get knowledge about both pure as well as applied mathematics branches. P0-5 The student will get adequate exposure to global and local concerns that explore many aspects of Mathematical sciences.
- P0-6 The student will get a relational understanding of mathematical concepts and concerned structures.
- P0-7 The student will communicate scientific information clearly and concisely manner both orally and in writing or through audio-video presentations
- P0-8 The student will develop a positive attitude towards mathematics as an interesting and valuable subject of study P0-9 The student will the develop capacity of critical reasoning, theoretical applied and communication skills. P0-10 The student will develop abilities for logical thinking and problem-solving.

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1. **Programme Outcomes of Computer Application (UG)**

- PO 1 To prepare the necessary knowledge base for research and software development in Computer Applications.
- PO 2 Identify computer application-related problems, analyze them and design the system or provide the solution for the problem considering legal, ethical and societal issues.
- PO 3 Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations
- PO 4 Create ability to learn new techniques and tools to adapt to the rapidly changing field of computing.
- PO 5 At the end of the three-year BCA program the students will be able to understand, analyze and develop computer programs in the areas related to algorithms, web design and networking for the efficient design of computer-based systems.
- PO 6 Understand the impact of professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- PO 7 The program also empowers the graduates to appear for various competitive examinations or choose the under graduate program of their choice.
- PO 8 Learners will be able to communicate effectively on various national & international issues with the specific community and society. Capable in writing effective reports, designing documentation, & make effective presentations so that he can participate in workshops, seminar & conferences.
- PO 9 Apart from the attainment of knowledge and hands-on skills in practical applicability of the subject, learners need to be equipped with soft skills and values that will help them function effectively as an individuals, and as a members or leaders in diverse teams and in Software industries.
- PO 10 This Program enables the learners to perform jobs in diverse fields such as software industries, survey, education, banking, development-planning, business, public service, IT-business etc. efficiently. At the end of the programme, students will be able to increase their employability through subject knowledge and additional skills.

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1 **Programme Outcomes of B.A.B.Ed. (UG)**

- PO 1. Content and Pedagogical Knowledge: Comprehension of theoretical knowledge of academic subjects at B.A. level as B.Ed level. Implementation of knowledge of core content and pedagogy to set goals and objectives for learning based on Curriculum, and design instruction that engages students in meaningful learning activities. Understand the integration of content knowledge with pedagogical knowledge. Analyse and comprehend the syllabus and curriculum for integration of content with teaching methodology.
- PO 2. Teaching Proficiency: Use of learner-centred teaching methods according to the need of learners. Applying content knowledge with innovative teaching skills and dealing with classroom problems. Implementation of appropriate teaching methodology or strategy after recognition of learner's learning styles.
- PO 3. Values and Ethics: Implementation of the core elements, life skills, national values and goals as mentioned in the constitution of India. Understand different values, ethics, morals, social service and sense of responsibility for the society. Demonstrate professional ethics and responsibilities as an educational practitioner. Engage in value based and culturally responsive teaching practices. Sensitize learners to act as an agent of modernization and social change.
- PO 4. Self-Directed Learning: Preparation of class wise tentative planning on monthly, half yearly basis along with Year, Unit and Lesson plan of their respective subjects including the lesson plan for the students with diverse needs. Construction of scripts for e-content of respective subjects. Development and implement various evaluation procedures as per the demand of subject.
- PO 5. Strengthening Professional Competencies: Integrate ICT in teaching-learning and assessment process to enrich professional practice. Deliver meaningful learning experiences for all students by integrating their knowledge and applying a variety of communication, instructional, and assessment strategies in their teaching. Apply the competencies and skills needed for becoming an effective teacher.

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2 Programme Specific Outcomes of B.Sc.B.Ed. (UG)

- PO1: equipped with a sound background in perspectives of education along with hands-on experience based on field exposure and develop a rational conceptualization of pedagogical knowledge and will incorporate it into the specific content areas of science.
- PO2: able to understand the role of school & education in ensuring sustainable development; critically analyses different theoretical perspectives on learning, learner, teaching, and assessment and integrates this knowledge into practice.
- PO3: demonstrate their commitment for continuous self-improvement by engaging in professional development activities, and reflective practices to improve teaching and learning that contribute to the revitalization of the teaching profession; able to integrate theoretical and practical knowledge of their respective subject(s) in classroom practice, as well as pursue to keep themselves abreast with advancements in their areas of specialization.
- PO4: Acquire ICT Skills and competencies to undertake professional job as per demands and requirements of educational institutions/research centres etc. and recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of knowledge explosion and technological change.

1. Course Outcomes Zoology

The B.Sc. Zoology program aims to provide students with a comprehensive understanding of animal biology and equip them with the knowledge, skills, and attitudes necessary for success in the field. By achieving the course outcomes outlined above, students will develop a strong foundation in animal structure, function, diversity, behavior, and adaptations. They will gain proficiency in laboratory techniques, research skills, and effective communication of zoological knowledge. They will be prepared for further studies in zoology or related fields, research positions, or careers in industries that require zoological expertise. They will contribute to scientific advancements, conservation efforts, environmental sustainability, and the understanding of animal life.

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2. **Course Outcomes Botany**

The B.Sc. Botany program aims to provide students with a comprehensive understanding of plant biology and equip them with the knowledge, skills, and attitudes necessary for success in the field. By achieving the course outcomes outlined above, students will develop a strong foundation in plant structure, function, diversity, ecology, and biotechnology. They will gain proficiency in laboratory techniques, research skills, and effective communication of botanical knowledge. They will be prepared for further studies in botany or related fields, research positions, or careers in industries that require botanical expertise. They will contribute to scientific advancements, environmental conservation, sustainable agriculture, and the understanding of plant life.

3. **Course Outcomes Chemistry**

The B.Sc. Chemistry program aims to provide students with a comprehensive understanding of chemistry and equip them with the knowledge, skills, and attitudes necessary for success in the field. By achieving the course outcomes outlined above, students will develop a strong foundation in chemistry concepts, laboratory skills, analytical techniques, problem-solving abilities, and effective communication skills. They will be prepared for further studies in chemistry or related fields, research positions, or careers in industries that require chemical expertise. They will contribute to scientific advancements, technological innovations, environmental sustainability, and the understanding of chemical processes.

4. **Course Outcomes Physics**

The B.Sc. Physics program aims to provide students with a solid foundation in physics and equip them with the knowledge, skills, and attitudes necessary for a successful career in the field. By achieving the course outcomes outlined above, students will develop a strong understanding of fundamental physics concepts, mathematical and computational skills, laboratory techniques, problem-solving abilities, and effective communication skills. They will be prepared for further studies in physics or related fields, research positions, or careers in industries that require expertise in physics. They will contribute to scientific advancements, technological innovations, and the understanding of the physical world.

5. **Course Outcomes Mathematics**

The B.Sc. Mathematics program aims to provide students with a strong foundation in mathematics and equip them with the knowledge, skills, and attitudes necessary for success in the field. By achieving the course outcomes outlined above, students will develop proficiency in mathematical fundamentals, problem-solving abilities, logical reasoning skills, and advanced

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mathematical techniques. They will be prepared for further studies in mathematics or related fields, research positions, or careers in industries that require mathematical expertise. They will contribute to mathematical advancements, scientific research, technological innovations, and the development of quantitative methods.

6. Course Outcomes Compulsory Subjects

- CO 1 **English**: Language Proficiency: Students will be able to communicate effectively in English, both verbally and in writing, with a strong focus on grammar, vocabulary, and pronunciation. Literary Appreciation: Students will be able to understand, analyze, and appreciate literary texts from a variety of genres and periods. Critical Thinking: Students will be able to think critically and analyze complex ideas and arguments presented in English texts.
- CO 2 **Hindi**: Language Proficiency: Students will be able to communicate effectively in Hindi, both verbally and in writing, with a strong focus on grammar, vocabulary, and pronunciation. Literary Appreciation: Students will be able to understand, analyze, and appreciate literary texts from a variety of genres and periods written in Hindi.Cultural Understanding: Students will be able to understand the cultural context of Hindi literature and its contribution to Indian culture.
- CO 3 **Computer Education or ICT**: Computer Literacy: Students will be able to use computers and related technologies effectively and efficiently for a variety of purposes, including data management, communication, and creative expression. Digital Citizenship: Students will be able to understand the ethical and legal issues related to the use of technology, including online safety, privacy, and security.Problem Solving: Students will be able to use computer technology to solve real-world problems and make informed decisions based on data and information.
- CO 4 **Environmental Studies**: Environmental Awareness: Students will be able to understand the impact of human activity on the environment and develop an appreciation for the importance of sustainability and conservation. Scientific Literacy: Students will be able to understand basic scientific concepts related to the environment and use scientific methods to analyze and evaluate environmental issues. Responsible Citizenship: Students will be able to take responsibility for their impact on the environment and develop strategies to minimize their ecological footprint.

7. Course Outcomes Geography

Understand the physical and human aspects of geography, including landforms, climate, population, and settlement patterns. Acquire knowledge of geographic techniques, such as map reading, data analysis, and spatial analysis. Analyze the interrelationships between human societies and the environment. Apply geographical concepts to understand and address contemporary issues, such as urbanization, climate change, and resource management.

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8. Course Outcomes Political Science

Gain an understanding of political systems, theories, ideologies, and institutions. Analyzes the processes and dynamics of political decision-making, governance, and public policies. Develop knowledge of comparative politics, international relations, and political philosophies. Enhance critical thinking and analytical skills for evaluating political events and phenomena.

9. Course Outcomes History

Acquire a comprehensive understanding of historical events, periods, and civilizations. Develop skills in analyzing historical sources, interpreting historical evidence, and conducting research. Gain knowledge of the political, social, economic, and cultural aspects of different historical eras. Develop critical thinking skills to evaluate historical interpretations and perspectives.

10. Course Outcomes Hindi Literature

Develop an in-depth understanding of Hindi literature, including poetry, fiction, drama, and essays. Analyze and interpret literary texts in Hindi, considering their themes, styles, and cultural contexts. Acquires knowledge of prominent Hindi writers, their contributions, and literary movements. Develop critical reading and writing skills in Hindi literature.

11. Course Outcomes Computer Applications

- CO 1 Understand the fundamental concepts of computers, software hardware and peripheral devices and the evolution of computer technologies and Familiarize with the business environment and information technology and its applications in different domains.
- CO 2 Gain knowledge to identify, explain and apply functional programming and object-oriented programming techniques and use of databases to develop computer programs. Analyze, design, implement and evaluate computerized solutions to real-life problems, using appropriate computing methods including web applications.
- CO 3 Understand the front end and back end of software applications. Gain expertise in at least one emerging technology. Acquire knowledge about computer networks, network devices and their configuration protocols, security concepts at various levels etc.
- CO 4 Apply techniques of software validation and reliability analysis to the development of computer programs. Acquire technical, communication and management skills to convey or present information, applications, instructions, policies, procedures, decisions, documentation etc. verbally as well as in writing.

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- CO 5 Recognize the various issues related to society, environment, health and vivid cultures and understand the responsibilities to contribute in providing the solutions. Acquire technical skills to lead a productive life in the society as a professional or as an entrepreneur

12. Course Outcomes Education (B.A.B.ED / BSc.B.ED)

- CO 1: Acquire the core concept, nature and importance of science and arts and application of the knowledge

- CO 2: Gain a broad perspective of education, understand the normative and cognitive aspects of education, Understand the aims and purposes of education from multiple perspectives, Study different thinkers' conceptualizations of education, engage with the role of education in promoting values, Appreciate that education is a complex and contested domain of study and practice.

- CO 3: Understand the concept and need for educational research, acquire the knowledge of Pedagogy and Teaching and their effective method, Comprehend the process of assessment for teaching learning, and understand the evaluation of the procedure of learning and teaching learning psychology of learners and teachers.

- Co 4 Develop a critical understanding of ICT in Education about building inclusive societies. Appreciate the role of participation and knowledge sharing in virtual communities. Understand the role of ICT in administrative and academic support systems.

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Program Specific Objectives (PSOs) :BCA

Students will be able to

1. The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.
2. The ability to understand the evolutionary changes in computing, and apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business solutions, real-world problems and meet the challenges of the future.
3. The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and lifelong learner with a zest for knowledge and to act as a good citizen by inculcating in them moral values & ethics.
4. Analyzing the impact of Computer Science and Engineering solutions in the societal and human context.

Program Specific Objectives (PSOs) :B.Com

Students will be able to

1. Understand the concepts, principles and practices involved in undertaking business ventures. Develop financial, cost, auditing, entrepreneurial, marketing and managerial skills.
2. Understand the legal guidelines relating to the business activities.
3. Gain expertise and exhibit professionalism in Business Accounting, Income Tax assessment and GST calculations.
4. Acquire and apply ICT skills in business operations.
5. Be an expert in business correspondence and effective in communication.

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Program Specific Objectives (PSOs) :B.A.

Students will be able to

1. Understand the basic concept and ideological orientations of political science including the issues concerning human rights and challenges. Analyze the core intellectual traditions in political thought and apply their central tenets to contemporary political problems and issues. Use analytical skills to understand civic, social and environmental challenges. Compare and contrast the various political, social and Economic systems that exist across the international community and analyze the political consequences of those variations. Demonstrate social responsibility and ethical reasoning within a variety of contexts. Acquire knowledge of political law and the Constitution of India. Understand the cultural, social, political, economic and constitutional environment as a historical perspective of the Indian Administration. Students know the national and international history.
2. Preserve Indian culture by creating awareness about age-old Indian culture. Demonstrate thinking skills by analyzing, synthesizing and evaluating historical information from various sources. Critically recognize the Social, Political, Economic, religious and cultural aspects of History and understand the background of our religion, customs and diversity of the country. Prepare students for various competitive examinations and help in nation-building by developing patriotism among students Make a career as a historian, and acquire professional skills in getting jobs, such as tourist guide. Develops the research attitude.
3. Disseminate acquired knowledge in societal and environmental contexts and demonstrate the knowledge of the need for sustainable development. Prepared for professional carriers in geography and allied disciplines like GIS and Remote sensing. Learn the application of various modern instruments and correlate the knowledge for the development of human society. Gain knowledge about the concept and scope of basic environmental geography and components of the environment. Serve as a Geographer, a teacher in schools and high schools conservator in the forest, Soil, and Agricultural Departments, cartographer in map-making divisions of Government etc.
4. Understand the origin of the Hindi language and its literature and will be able to Identify the dialects of the Hindi language family.

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Program Specific Objectives (PSOs) : B.Sc.(PCM)

Students will be able to

1. Understand the basic principles and theories of the main areas of organic, inorganic, analytical, physical and biological chemistry and its applications and be able to apply chemical knowledge in many applications.
2. Understand and apply the basic laws of physics in the areas of classical mechanics, Newtonian gravitation, special relativity, electromagnetism, geometrical and physical optics, quantum mechanics, thermodynamics and statistical mechanics.
3. Understand the concepts of calculus, differential equations, algebra, analysis and mechanics. Develop the power of reasoning, critical thinking, problem-solving ability, developing new ideas, drawing logical conclusions and high level of numeracy.
4. To make accurate use of English and Computers in their respective fields and improve their employability

Program Specific Objectives (PSOs) : B.Sc.(BCZ)

Students will be able to

1. Understand the basic principles and theories of the main areas of organic, inorganic, analytical, physical and biological chemistry and its applications and able to apply chemical knowledge in many applications.
2. Understand the nature of basic concepts of Plant cell biology, Taxonomy, ecology, interrelation hips of different plant groups and their evolutionary tendencies and acquire the capability of applying the Knowledge in the areas of Agriculture, Plant Medicines, Horticulture and Tissue culture.
3. Emphasize the diversity in form and function of animals. Helps to plan, implement, monitor & evaluate one's health activities to prevent themselves from deadly diseases based on Theoretical & Practical Knowledge.
4. Make accurate use of English and Computers in their respective fields and improve their employability

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Program Specific Outcomes of Four-Year Integrated Program.

Students will be able to

1. able to integrate theoretical and practical knowledge of their respective subjects in classroom practice.
2. apply their knowledge of core content and pedagogy to set goals and objectives for learning based on Curriculum, and design instruction that engages students in meaningful learning activities.
3. appreciate the diversity of learners and create an appropriate learning environment to ensure a focus on the learning of all students.
4. deliver meaningful learning experiences for all students by integrating their knowledge and applying a variety of communication, instructional, and assessment strategies in their teaching.
5. demonstrate their commitment to continuous self-improvement by engaging in professional development activities and collaborative and reflective practices to improve teaching and learning that contribute to the revitalization of the teaching profession.
6. demonstrate leadership qualities by participating in curriculum initiatives, student support and school management systems.
7. demonstrate their associations with school, family and community to foster student and community progression.
8. integrate ICT in teaching-learning and assessment processes to enrich professional practice.
9. engage in value-based and culturally responsive teaching practices.
10. use effective and appropriate verbal, nonverbal, written, and media communication techniques in their teaching, professional collaboration, and interactions with students, colleagues, parents, and the community.
11. demonstrate professional ethics and responsibilities as an educational practitioner.
12. recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of knowledge explosion and technological change.

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