

PROGRAM SPECIFIC OUTCOME

DEPARTMENT OF GEOGRAPHY

For Graduate students-

The curriculum is designed to make students familiar about earth surface, environment and various human activities affected by nature.

‘Physical Geography’ develops the understanding of students about features of earth surface like rocks, soil, denudation, topography made by different agents of erosion and various changes the earth has gone through in geological time history. The curriculum deals with the atmospheric phenomena like stratification of atmosphere, related characteristics, air pressure, wind belts, global climatic classification and related flora and fauna. Oceanography explains the relief features of the oceans, their salinity, density, temperature, ocean currents etc. Biogeography is added as a unit of the paper to make the student aware of the ecosystem, food chain, producers and consumers at various levels. This paper gives the basic information to students about our surroundings.

‘Geography of Resources’ paper helps students understand about the classification of resources and their world distribution. As the exploitation of resources is reaching dangerous levels, the need for awareness of conservation techniques is becoming a prime necessity. This paper contributes to creating this awareness.

‘Human geography’ focuses on the study of humans. Since human is the active agent of nature, he creates vivid changes in nature through social, cultural, economic activities such as trade and transport etc. All these changes are been taught in the paper.

Besides systematic approach, regional approach has been given equal significance in the syllabus. Geography of India, Geography of Rajasthan and Regional Geography of the world are the papers which give a new perception to students for spatial analysis of macro to micro regions. Mapping promotes the understanding of students about localization of various places.

Practical –

Cartographical techniques help students to know more about the basic Components of map and how to prepare a map. Scales and Projections are few of them. Weather maps interpretation guides students how to read forecast about weather with the help of the said maps. Various Cartographic methods like Isopleth, Choropleth, Chorochromatic, Choroshematic, Shading practices train students to present the different demographic, economic, political distribution data on a map.

Chain tape survey, Prismatic Compass survey and Plain Table survey have been added to curriculum at different graduate level to make students familiar with preparing the plan of the area.

For Post Graduates

Post graduate curriculum is designed to develop the advanced and in-depth understanding of geography. 'Advanced physical Geography' gives the conceptual knowledge about lithosphere, atmosphere and hydrosphere.

Evolution of Geographical thought is the paper which makes the students familiar with the history of geography. The paper deals with the various philosophies and associated geographers like Radicalism, Idealism, Exceptionalism, Quantitative revolution etc.

Principles and Theories of Economic Geography delves in the various theories related to various economic activities like land use, industrial localization etc.

Advanced Geography of India paper enhances the analytical skills of students regarding regional geography of India.

'Man and Environment' helps students to understand the impact of environment on man and man's impact on environment. Dualism like Determinism, Possibalism and Neo Determinism is deliberated upon.

'Quantitative Techniques in Geography' and 'Research Methodology' are the papers which develop research aptitude in students. They help students to prepare research design. The papers deal with various analysis methods like Nearest Neighbour Analysis, Principle Component Analysis, Transport Network Analysis, Population Potential Analysis which are helpful for analytical study of data.

Besides these papers, geographical study of various human activities has been done through optional papers like Agricultural Geography, Industrial Geography, Political Geography, Cultural Geography, Rural Development etc.

Practical

Developing Cartographic understanding is the basic focus in previous year as Mathematical projection construction, distribution methods, statistical methods, topographical sheets analysis, Cartograms are the main course contents. Socio Economic Survey report is added in curriculum to help students to know about questionnaire and how to collect primary data. It helps students to identify the problems of study area and suggest probable remedies.

Practical content of Final year emphasizes on the field mapping skills of students. Theodolite, Clinometer, Dumpy level, GPS are some of the survey instruments used to develop their survey skills.

Thus the course content is concise and designed to develop their analytical thinking regarding spatial and temporal features.

DEPARTMENT OF POLITICAL SCIENCE

The under graduate program in Political Science familiarizes a student with a wide spectrum of political theories, concepts and politicking. The course includes the study of key concepts such as Behaviouralism, Post- Behaviouralism, Power, Authority, Legitimacy, Political System, Political Development, Political Modernisation, Political parties, Pressure Groups, Constitutionalism, Liberalism, Democracy, Dictatorship, Political parties, Idealism, Marxism, Democratic Socialism, Anarchism, Feminism, etc.

The understanding of various Indian political thinkers such as Manu, Kautilya, Shukra, Ram Mohan Roy, Dayanand Saraswati, Gokhale, Tilak, Vivekanand, Gandhi, Nehru, ambedkar, M.N.Roy, J. P. Narain, D. D. Upadhyay and western thinkers such as Plato, Aristotle, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Bentham, J.S. Mill, Marx is in the purview of the course.

Some selected political systems such as that of Britain, USA, People's Republic of China and Switzerland, besides the working of the Indian political system have been included in the syllabus, representative of various systems enabling the students to comprehend the execution of the political order.

The study of international developments post World War II, U.N.O, USA and the third world, collapse of Communist block, reorganization of Europe, Indian foreign policy and its relations with its neighbours as well as major powers, India and UN, NAM and its relevance, India's Look East Policy and India in contemporary multi-polar world is included in the ambit of Political Science programme. This equips with students with the knowledge about the dynamics of the political system and their challenges.

DEPARTMENT OF ENGLISH

The syllabus of the pass course of B.A. in English literature aims at achieving the following objective:

1. Interpretation and appreciation of selected texts from the genres of poetry, drama, prose and fiction.
2. Strengthening skills of not making, summarizing and dialogue writing.
3. Understanding texts with specific references genres, forms and literary terms.

Studying literature not only provides pleasure but also broadens the horizons of our knowledge and improves our mind. It helps us develop an optimistic approach to life; to discover our inner strengths and hidden potential and to encounter the challenges of life boldly. Literature inculcates human values in us and inspires us to make our lives sublime. On completion of B.A. Pass course in English literature along

with to more of optimal subjects a student is ready to face the real work with immense possibilities of appearing in competitive exams as well as pursuing higher studies in his or her chosen field.

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DEPARTMENT OF PSYCHOLOGY

Psychology helps the students to understand human behavior, its mental processes and allows them to understand, think, act and feel the surrounding environment (home & workplace) in a better manner. This subject helps the students to understand people's motivation, perception, emotions and behavior in a different perspective.

The B.A. programme helps the students

- To understand the basic facts and concepts related to research design in Psychology; accurately analyse and interpret data generated through their own studies.
- To identify, describe and classify the major theoretical perspectives and key concepts used in Psychology.
- To understand basic anatomy and physiology of nervous system.
- To communicate empirical and theoretical information effectively when generating knowledge or when using knowledge in applied setting.
- To use the knowledge provided by the discipline to foster their own well being and life long intellectual pursuits.
- To understand the influence that variables such as race, class, sexuality and gender may have on mental constructs and behaviors.

After graduating in Psychology, students can go for following courses :-

- Post graduation in Psychology.
- Diploma course in Guidance and counseling.
- Diploma in Idyno therapy and Biogeronotology.
- Diploma course in forensic psychology, military psychology.
- Short term courses in clinical, child, cognitive neo scientist, community, consumer, criminal, engineering and environmental psychology.
- Courses in sports psychology, police psychology, Anthropology, psychometrician, rehabilitation psychology.

DEPARTMENT OF SOCIOLOGY

The syllabus of sociology in the graduation program covers the study of the development, structure, and functioning of human society. A student is familiarized with social institutions such as family kinship, religion, property, cooperation, competition, accommodation, assimilation etc. a student is made aware of social problems like illiteracy, poverty, unemployment, child labour and abuse, castism and various other crimes.

The subject centers on the past, present and future of the human society. Job opportunities available through sociology are :-

- Social guide, counselor, social worker.
- Human resources.
- Family support worker.
- Lawyer
- Management consultant.
- Market research analyst.
- Media planners
- Public relation specialist, etc.

DEPARTMENT OF HISTORY

- .To Understand a wide range of historical information
- To identify the key events which express/define change over time in a particular place or region and to identify how change occurs over time.

- To describe the influence of political ideologies, economic structures, social organization, cultural perceptions, and natural environments on historical events.
- To discuss the ways in which factors such as race, gender, class, ethnicity, region and religion influence historical narratives. evaluate debates among historians and to differentiate between historical facts and historical interpretations.
- To assess the credibility of primary and secondary sources. Students will be able to develop in written papers
- following attributes;
 - well-reasoned historical arguments, supported by judicious use of sources
 - .Formulate important historical questions.
 - Articulate a persuasive and well-structured historical argument.
 - Employ multiple forms of evidence in this historical argument.

DEPARTMENT OF HOME SCIENCE

Home Science being a dynamic subject helps students to draw and synthesize the knowledge, concepts and theories from Arts, Science and Humanities. The curriculum of B.A. (pass course) is well designed to acquaint students to deal with relationship between individuals, families, communities and the environment in which they live. The course acquaints the students with developmental schemes, rights and responsibilities, modern techniques; functional and vocational skills, thus improving quality of personal and professional life. It helps in leading a more satisfying family, personal and community life because of the knowledge, understanding skills of social, cultural, spiritual values students acquire through Home Science. The vocational courses in the curriculum provide the necessary training and skills as well as technical knowledge which prepares individuals for jobs, occupation or trade viz (Family event management, food preservation, childhood educator, dyeing and printing etc.)

DEPARTMENT OF ECONOMIC ADMINISTRATION AND FINANCIAL MANAGEMENT (EAFM)

The syllabus of E.A.F.M. gives knowledge of administration of economic affairs at state as well as at central level. The study of financial management enables the students to manage the business enterprise with limited funds. The study of business budgeting trains the students to prepare the draft of the budget of a business unit in various fields such as production, sales, purchase, etc. The study of business economics gives knowledge of markets where with limited resources an individual or firm has to achieve the twin targets of cost minimization

and profit maximization. A nutshell study of E.A.F.M. gives knowledge of administration and management of economic and business units in the country.

The B.Com. courses has been designed for imparting knowledge of business and economics. The curriculum focuses on giving full exposure to the student which in turn helps them to develop their personality. Commerce graduate develops approach towards business and economy. In the era of globalization graduate in commerce faculty gets specialization and expertise in particular domain. Students can play an important role as business entrepreneur not only in urban but also in rural sector. The commerce graduate or post-graduate develop managerial and professional skill at the conceptual and empirical level and can face the challenges of corporate sector and can withstand the competition in global market. Student can play important role at middle management level can earn foreign exchange through business enterprises in the field of import-export trade which is important for economy.

In commerce stream latest software and accounting tools are also being taught so that student can apply accounting techniques in present scenario. A commerce graduate can also generate job opportunities through start – ups or ventures. The students can easily get jobs in banking, financial and corporate sector.

In all besides class room teaching, through industrial visit, bank visit, quiz competition, conferences, panel discussion we can make the commerce stream more integral part of the curriculum. We can initiate other programmes such as entrepreneurship development, business communication etc.

DEPARTMENT OF BUSINESS ADMINISTRATION

Bus. Admn. Course enables the students to develop a broad understanding of business organizations and provides them with subject specific knowledge in areas such as markets, customers, finance, operations, communication, information technology and business policy and strategy. Various papers of Bus. Admn. Group opens the doors for the students to variety of career opportunities such as Accountants, Commercial loan officer, City managers, Sales managers, Human resource managers, Public relations specialist, Advertising executive etc.

DEPARTMENT OF ACCOUNTANCY AND BUSINESS STATISTICS (ABST)

Statistics enables the students to comprehend data collection its classification and techniques for analysis and their application in various fields.

Corporate accounting provides knowledge of various accounting methods in different fields. Cost accounting gives the knowledge of cost estimation, methods of cost control and how to make quotations of tenders in domestic and foreign markets.

Auditing gives to the students the knowledge of checking the authenticity of accounts, which is necessary for tax calculation, declaration of dividend, taking loan from financial institution and detection of errors & fraud. Income tax gives them knowledge of various needs of income, rules of their calculation, deductions and computation of tax.

GST gives them knowledge of taxable and exempted goods and services, various rules regarding computation of GST, distribution of GST in central & state government management accounting gives them knowledge of managing accounts and techniques of making various decisions.

DEPARTMENT OF PHYSICS

Physics involves the study of matter, its motion and behaviour through space and time along with related concepts such as energy and force. The main goal of Physics is to understand the behavior of the universe. The curriculum of physics as a subject in B.Sc. pass course has been designed with following goals in view-

Students will be acquainted with the knowledge of classical mechanics, electromagnetism, quantum mechanics, thermal physics, electronics, optics etc. and will be able to apply this knowledge to analyze a variety of physical phenomena. Electronics is widely used in information, processing telecommunication and signal processing. The ability of electronic devices to act as switches makes digital information processing possible. Power electronics applications are extended to various fields such as aero space, automotive, electrical and electronic systems.

Electromagnets are used in all kinds of electrical devices including hard disk drives, speakers, motors, generators, in MRI machines etc. The knowledge of quantum theory can be used in quantum computing, LEDs, Lasers, Superconducting magnets.

Further, students will be able to demonstrate proficiency in mathematics as the mathematical concepts needed for a proper understanding of physics are part of the curriculum.

Students will be able to show learned laboratory skills, enabling them to take measurements in a physics laboratory and analyze the measurements to draw valid conclusions. This increases analytical and logical thinking and also creates an interest in research. Students will be capable of oral and written scientific communication.

After graduation in physics, students can go for postgraduate courses in various universities

DEPARTMENT OF MATHEMATICS

Mathematics helps us to have better problem solving skills analytical thinking refers to the ability to think critically about the world around us.

Analytical and reasoning skills are important because they help us to solve problems and look for solutions. Differential equations have remarkable ability to predict exponential growth and decay change in investment return. We use the derivative as cost strength, amount of material used in a building. The application of dynamics and statics as modeling the behavior of moving and stationary object.

In every competition there is a paper of mathematics and analytic reasoning. There are many job opportunities i.e. data scientist investment analyst, CAD technicians, game designer etc. Numerical analysis model are used in financial management i.e. LIC, mutual funds etc.

Linear programming problems have a great applications in inventory problems, transportation problems, **quining** theory and assignment problems and game theory etc.

DEPARTMENT OF BOTANY

The three years UG course of Botany is divided in nine papers (three papers per year) with related practical exercises to enrich student with the basic knowledge of concepts and the phenomena related to the world of plants. At the completion of B.Sc. in Botany the student are able to understand –

- The structural organization of cell, cell organelles, cell division, genetics and inheritance.
- The morphological and structural organization of algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.
- The various physiological and metabolic activities of plants, biotechnology and biochemical estimation of by products.
- Economic botany and plant utilization in concern with human life.
- Study of microorganisms and their industrial applications.
- Diversity of plants., environment, ecosystem and biogeochemical cycles in nature, phytogeography etc.
- Student is equipped to gain self employment in the field of organic manure preparation, horticultural plant production, cultivation of crops, plant tissue culture, biotechnology and genetic engineering, mushroom cultivation, food industries etc.

DEPARTMENT OF CHEMISTRY

Graduates from this syllabus courses will be better prepared to understand the new environment friendly systems and can understand the processes that the chemical society / industry is adopting.

After doing B.Sc. Chemistry one can go for M.Sc. Chemistry or take up various jobs and take up in internship to prepare for industry level entries. Some of the jobs are as follows after M.Sc. Chemistry.

- Analytical Chemist
- Bio-medical chemist
- Chemical engineering associate
- Industrial research scientist
- Lab chemist
- Materials technologist

- Production chemist
- Quality controller
- R & D Director
- Research and development manager
- Safety, health and environment specialist

DEPARTMENT OF ZOOLOGY

The course offered in zoology Graduation programme enables the students to:-

- Have a broad understanding of animal diversity, including knowledge of the scientific classification and evolutionary relationships of major groups of animals.
- Comprehend the relationships between structure and functions at different levels of biological organization (e.g., molecules, organs, organisms, populations, and species) for the major groups of animals.
- Characterize the biological, chemical, and physical features of environments (e.g., terrestrial, freshwater, marine, host) that animals inhabit. Explain how animals function and interact with respect to biological, chemical and physical processes in natural and impacted environments.
- Explain how organisms function at the level of the gene, genome, cell tissue, organ and organ-system. Drawing upon this knowledge, they are able to give specific examples of the physiological adaptation, development, reproduction and behavior of different forms of life.
- Understand the applied biological sciences or economic Zoology such as sericulture, Apiculture, aquaculture, Industrial microbiology, rDNA technology and medicine for their career opportunities.
- Understanding the basic concepts of biosystematics and taxonomy.
- Identify the taxonomic status of non-chordates up to annelids and able to discuss the evolutionary model of the group.
- Describe the social life and economic importance of insects.
- Understand the morphological diversity, biological characters and taxonomical importance of some selected museum specimens belonging to different animal phyla.
- Identify the taxonomic status of chordates and discuss the evolutionary model of the group.
- Understand the comparative anatomy and vital systems of chordates.
- Understand the detailed structure of cell and cell organelles in relation to the functional aspects and working principles; and application of microscopy.
- Understand the process of development of animals.
- Understand the theories of evolution and highlight the role of evidence in support of evolution.
- Understand the theories of classical genetics and blood group inheritance in man.

- Understand the genetic defects and inborn errors of metabolism, role of inbreeding and outbreeding eugenics.
- Understand about the composition of food and mechanisms of digestion, absorption and assimilation.
- Comprehend the energy source, chemical bonds and the principles of thermodynamic and the importance of acid base balance.
- Describe taxonomy, Morphological sexual differentiation in larva and adult.
- Attain knowledge about the history, branches and scope of biotechnology and gene transfer technology.
- Understand the recombinant DNA technology, gene integration into the vector and with host genome and creation of transgenic animals.
- Understand the ecology and environment with respect to the life on earth.
- Understand the abiotic factors of environment, biogeochemical cycles and intraspecific relationships of animals.
- Understand the tools of gene manipulation and gene transfer.
- Understand the techniques of recombinant DNA technology and its key applications
- Procure knowledge of sterilization technique, blotting technique, DNA isolation from cells etc.

DEPARTMENT OF B.ED.

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