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PROGRAMME SPECIFIC OUTCOMES



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Department of Arabic

PSO1 To work as translators in the Arab speaking world

PSO2 To develop competence and caliber to serve as efficient teachers in Arabic

PSO3 To support and encourage academic research in Arabic language and literature, in addition to preparing qualified researchers in this field

PSO4 To cultivate communicative competency and writing skills in the Arabic language



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Department of Business Management

MBA

PO1. To imbibe the students with requisite domain knowledge, skills & right attitude necessary to provide effective leadership in a global environment.

PO2. To develop competent management professionals with strong ethical values, capable of assuming a pivotal role in various sectors of the Indian Economy & Society.

PO3. To inculcate proactive thinking to ensure effective performance in the dynamic socio-economic and business ecosystem.

PO4. To harness entrepreneurial approach and skillsets aligned with the national priorities.

BBA

PSO1. Apply reflective thinking and research skills using latest technology tools

PSO2. Assimilate technical functional knowledge of operations in business organization

PSO3. Demonstrate strategic and proactive thinking towards business decision making.

PSO4. Illustrate negotiation skills and networking abilities



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Department of Bio-Technology

PSO1. To impart an ability to apply biotechnology skills (including molecular & micro biology, immunology & genetic engineering, bioprocess & fermentation, enzyme & food technology and bioinformatics) and its applications in core and allied fields.

PSO2. To provide students with the concepts and research approaches for their career in the field of biotechnology and develop their scientific interest.

PSO3. To impart in-depth practical oriented knowledge to students in various thrust areas of biotechnology, so as to meet the demands of industry and academia.



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Department of Botany

PSO1. Students will be able to critically evaluate the ideas and arguments by collecting relevant information about the plants, and classify them at phylogenetic level.

PSO2. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.

PSO3. Students will be able to compare and contrast the characteristics of the different groups of plants such as algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.

PSO4. Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

PSO5. Students will be able to explain how Plants function at gene, genome, cellular and tissue level

PSO6. Students will be will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

PSO7. Students will be able to conceive the idea of artificial propagation of plants via vegetative methods and to find a livelihood via establishing miniature plant nurseries



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Department of Chemistry

PSO1. Gain the knowledge of Chemistry through theory and practical experiments.

PSO2. To explain nomenclature, stereochemistry, structures, reactivity, and mechanism of the chemical reactions.

PSO3. Identify chemical formulae and solve numerical problems.

PSO4. To understand the basic principles of Organic, Inorganic, Physical and Analytical Chemistry and its applications through Various laboratory experiments.

PSO5. Use modern chemical tools, Models, Chem-draw, Charts and equipment

PSO6. Understand good laboratory practices and safety.

PSO7. Develop research-oriented skills.

PSO8. Develop awareness and handle the sophisticated instruments/equipment.



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Department of Computer Hardware

PSO1: To critically evaluate the design and provide optimal solutions to problem areas in advanced signal processing, digital system design, embedded systems and VLSI design.

PSO2: To design cost effective hardware systems and components for engineering/social applications using the knowledge of hardware architecture, programming and development.

PSO3: To apply appropriate technology to find solutions for complex problems.

PSO4: To enhance and develop electronic systems using modern engineering hardware and software tools.

PSO5: To apply domain knowledge and expertise for enhancing research capability to transform innovative ideas into reality



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Department of Commerce

PSO1. Understand application of knowledge of commerce in business service sector, industry, marketing, finance, entrepreneurship development etc.

PSO2. Develop communication skills and computer awareness and practical application of income tax.

PSO3. Designed to equip the students for a career in financial analysis, personal financial advisor, consultants etc.

PSO4. Opens scope for graduates to pursue courses such as CA, M. Com, MBA, CMA, CS, CPA etc.

PSO5. Empower knowledge and decision making to excel as entrepreneurs and managers.

PSO6. Become ethically and socially responsible commerce graduates with computer application knowledge

PSO7. Students will emerge as successful entrepreneurs, managers and consultants.



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Department of Computer Science

PSO1. Students learn to apply fundamental principles and methods of Computer Science to a wide range of applications.

PSO2. Students develop proficiency in the practice of computing

PSO3. Students understand all dimensions of the concepts of software application and projects.

PSO4. Students understand the computer subjects with demonstration of all programming and theoretical concepts with the use of ICT



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Department of Electronics

PSO1 Students learn to apply the fundamental concepts of electronics to design a variety of components and systems for various applications such as signal processing, image processing, communication, networking, embedded systems, VLSI and control system

PSO2 Students will be able to select and apply cutting-edge tools to solve complex electronics problems

PSO3 Students will develop acquaintance of social and environmental awareness with ethical responsibilities to have a successful career in real-world applications by keeping abreast of the technological changes.



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Department of English

PSO1 To help learners gain better listening, speaking, reading and writing skills so that they can express themselves fluently in personal and professional contexts.

PSO2 To develop appreciation of all genres of literature, and thereby increase their understanding, critical thinking ability and sensibility towards social, economic and societal situations.

PSO3 To get an awareness of the basic concepts and theoretical frameworks of Creative Writing, Translation Studies, Film Studies, Theatre for Communication, Advertising, Business English, Linguistics, English and Communication Technology and to develop research aptitude by learning literary and cultural theories.

PSO4 To help learners to improve their proficiency in applying various skills in their personal and professional lives thereby enhancing their employability prospects.



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Department of Economics

PSO1. Knowledge of Economic System: An ability to understand economic theories and functioning of basic microeconomic and macroeconomic systems.

PSO2. Statistical and Mathematical Skills: Acquaint with collection, organization, tabulation and analysis of empirical data. Ability to use basic mathematical and statistical tools to solve real economic problems.

PSO3. Econometric Applications: Acquaint with basic and applied econometric tools and methods used in economics. The aim of this course is to provide a foundation in applied econometric analysis and develop skills required for empirical research in economics. It also covers statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models.

PSO4. Development Perspectives: Delineate the developmental policies designed for developed and developing economics. The course also acquaints with the measurement of development with the help of theories along with the conceptual issues of poverty and inequalities.

PSO5. Environmental Strategy and Management: This course emphasizes on environmental problems emerging from economic development. Economic principles are applied to valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments.

PSO6. Perspectives on Indian Economy: Acquaint with basic issues of Indian economy and learn the basic concept of monetary analysis and financial marketing in Indian financial markets. This course

reviews major trends in economic indicators and policy debates in India in the post-Independence period.



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Department of Environmental Science

PSO1 - To enhance students' ability to understand and mitigate environmental issues

PSO2 - To augment the acumen to analyse geological and environmental research problems of social relevance

PSO3 - To ensure lifelong moral and ethical sensitivity when applying scientific skills for environmental applications and entrepreneurship

PSO4 - To create ways and means of sustainable development and growth



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Department of Geography

PSO 1 - Imbibing knowledge, skills and holistic understanding of the Earth, atmosphere, oceans and the planet through analysis of landform development; crustal mobility and tectonics, climate change and dynamics; soil formation and classification; hydrological and oceanographic studies etc.

PSO 2 – Associating landforms with structure and process; establishing man-environment relationships; and exploring the place and role of Geography vis-a-sis other social and earth sciences.

PSO 3 – Understanding the role and functioning of global economies, industrial locations; and the use and exploitation of resources with impacts.

PSO 4 – Developing a sensitive and sustainable approach towards the ecosystem and the biosphere with a view to conserve natural systems and maintain ecological balance.

PSO 5 – Inculcating a tolerant mindset and attitude towards the vast socio-cultural diversity of India by studying and discussing contemporary concepts of social and cultural geography.

PSO 6 – Developing an understanding of geopolitics, global geostrategic views and functioning of political systems.

PSO 7 – Analyzing the differential patterns of the human habitation of the Earth, through studies of human settlements and population dynamics.

PSO 8 – Understanding and accounting for regional disparities, poverty, unemployment and the impacts of globalization. Explaining and analyzing the regional diversity of India through interpretation of natural and planning regions.

PSO 9 – Overviewing ancient and contemporary geographical thought and its relationship with modern concepts of empiricism, positivism, radicalism, behaviouralism etc.

PSO 10 – Sensitization and awareness about the hazards and disasters to which the subcontinent is vulnerable; and their management.

PSO 11 – Training in practical techniques of mapping, cartography, softwares, interpretation of maps, photographs and images etc; so as to understand the spatial variation of phenomena on the Earth's surface.



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Department of Genetics

PSO1 Understanding the role of genetic technologies in industries related to biotechnology, pharmaceuticals, energy, and other fields

PSO2 The ability to evaluate conclusions that are based on genetic data

PSO3 Understanding the role of genetic mechanisms in evolution

PSO4 Insight into the mathematical, statistical, and computational basis of genetic analyses that use genome-scale data sets in systems biology settings



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Department of Hindi

PSO1. To understand the basic concept and subject of Hindi & its origin.

PSO2. To make and note the importance of subject Hindi & its dialects.

PSO3. To understand various aspects of Hindi literature, vocabulary etc.

PSO4. To impress upon the significance of Hindi as national/official language.

PSO5. To understand the Literature in a broader context.

PSO6. To know about Hindi literature, its roots cause, perspectives and methods.

PSO7. Elaborating and understanding the philosophical methods of Hindi Literature.

PSO8. Evaluating the concept of Hindi from past to present and to bring the society closer through literature.



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Department of History

PSO1 Students will learn about the fundamentals of history and the evolution of history at the local, state, national and international levels

PSO2. Students become capable of comprehending global, political, socio-economic and cultural shifts both now and in the future by studying ancient and modern history

PSO3. Students will recognize the outstanding contributions made by men and women during revolutions and movements to improve modern day administration and governance

PSO4. Help students gain various transferable skills in a wide range of careers such as law, journalism, service sectors, archaeological spheres, museums, library science etc. and thereby enhance the chances of getting placements in those sectors



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Department of Marketing

PSO1: Marketing Strategy Proficiency– Demonstrate an understanding of marketing principles, theories, and concepts, develop effective marketing strategies, branding and communication expertise, digital marketing competence, sales, and distribution management skills for different business environments.

PSO2: Market Research and Analysis– Design and conduct market research, analyse consumer behaviour, and interpret market trends to identify opportunities and make informed marketing decisions.

PSO3: Ethical and Legal Awareness in Marketing– Demonstrate an understanding of ethical considerations and legal regulations in marketing practices, ensuring compliance and responsible decision-making in marketing activities.

PSO4: Critical Thinking and Entrepreneurial Mindset- Develop an entrepreneurial mindset, apply analytical and critical thinking skills to identify, and evaluate new market opportunities, develop innovative marketing strategies, assess market dynamics, and propose strategic solutions based on data-driven insights, and undertake entrepreneurial initiatives.



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Department of Mathematics

PSO1: A student will be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.

PSO2: A student will get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences in their daily life.

PSO3: Student will be equipped with mathematical modelling ability, problem solving skills, creative and analytical skills and power of communication necessary for various kinds of employment.

PSO4: Student will be able to apply their skills and knowledge to translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

PSO5: Enable students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.



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Department of Informatics

PSO1 Demonstrate basic knowledge of computer applications and apply standard practices in software project development

PSO2 Understand, analyze and develop computer programs for efficient design of computer-based systems

PSO3 Develop proficiency in analytical and logical skills for the design, development, testing and maintenance of software

PSO4 Apply cutting edge technologies for devising cost effecting solutions

PSO5 Expose to emerging tools and techniques of Informatics



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Department of Microbiology

PSO1 Identify and classify microorganisms using various microbial techniques and gain knowledge on microbial diversity in different environments.

PSO2 Understand the principles used in pathogen detection and different diagnostic tools for their identification.

PSO3 Mastering the skills of handling microorganisms, hands on training for accessing the information technology in computers and its applications in identifying the organisms using bioinformatics tools.

PSO4 Appreciate the versatility and significance of microorganisms in the various fields such as Agriculture, Pharmaceuticals, Medical, Food, Dairy and Fermentation technology, Immunodiagnostics.

PSO5 Develop the different research / entrepreneurship skills in industries to understand the significance of research in Microbiology.



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Department of Persian

PSO1 – Provides deeper insights to Persian Literature

PSO2 – Gain an insight into the rich and diverse Persian culture

PSO3 – Equips the graduates to communicate in Persian Language

PSO4 – Equips the graduates with translation and interpretation skills

PSO5 – Learn to appreciate major Sufi poets



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Department of Philosophy

PSO1: Understand the nature and basic concepts of philosophy related to the area of Metaphysics, Epistemology, Logic etc.

PSO2: Understand the application of philosophical knowledge in other interdisciplinary areas such as Political Science, Sanskrit, Sociology etc.

PSO3: Develop the expressive and communicative power of logical thinking and reasoning.

PSO4: Develop the capacity of uniqueness to combine a variety of views into one unified whole.

PSO5: Recognize different values including different moral dimensions of one's decision and thereby increasing the power of responsibility.

PSO6: Acquire the knowledge to develop the defensive power and ability to establish their own views and challenging problems of philosophy.

PSO7: Be aware of major figures and development in the history of philosophy.

PSO8: Learn up to date techniques and accepted answers to philosophical questions.

PSO9: Recognize their personal value systems and apply these to their own social worlds.

PSO10: Acquire the capacity to develop new directions and new hypotheses while doing research.



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Department of Physics

PSO1 Understand basic mechanics and properties of matter.

PSO2 Illustrate the principles of electricity, magnetism, thermodynamics, optics and spectroscopy.

PSO3 Identify, formulate and analyze complex problems using basic principles of mathematics, physics and statistics.

PSO4 Design, construct and analyze basic electronic and digital circuits.

PSO5 Understand the basics of programming language and apply it to various numerical and scientific problems.



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Department of Political Science

PSO1. Understand the world, country, society and have awareness of ethical problems, social rights, values and responsibility to the self and to others.

PSO2. Understand and follow changes in patterns of political behaviour, ideas and structures.

PSO3. Develop the ability to make logical inferences about social and political issues on the basis of comparative and historical knowledge.

PSO4. Take individual and team responsibility, function effectively and respectfully as an individual and a member or a leader of a team; and have the skills to work effectively in multi-disciplinary teams.

PSO5. Know how to access and evaluate data from various sources of information.



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Department of Psychology

PSO1: Gaining insight into human nature, development of behaviour, changes in biological, psychological and social perspectives.

PSO2: Understand abnormal side of human behaviour, Stress and Health, Consumer Behaviour, Organizational Behaviour, Guidance and Counselling.

POS 3: Understand the human nature not only thru observation but interpreting it through a scientific assessment by means of experimental psychology and psychological testing.

POS 4: Skill development in the area of counselling by observing, helping the client maintaining confidentiality and directing towards goal achievement.



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Department of Sociology

PSO1: Understand the basic concepts in Sociology and develop an understanding about macro and micro perspectives in Sociology

PSO2: Comprehend the various features of Indian Society and culture including unity in diversity; Indian social structure and understanding rural, urban and tribal India

PSO3: Develop an understanding of various aspects of doing social science research with focus on methodology; making research proposal, doing fieldwork and report writing

PSO4: Analyse the critical aspects of Sociology of Development and Planning, the development theories and the Planning system for development

PSO5: Understand the characteristics, social structure, institutions and problems of tribal community in India

PSO6: Develop an understanding about various aspects of Industry; Population studies

PSO7: Understand the philosophical foundations of Sociology and its application

PSO8: Evaluation of Development Policies



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Department of Statistics

- PSO1** Apply the concepts, principles and methods of statistics to various fields of study
- PSO2** Understand the importance and value of statistical principles and convert a problem description into testable research hypotheses.
- PSO3** Select appropriate statistical tools to investigate a research hypothesis.
- PSO4** Perform data analysis by apply appropriate statistical methodology and interpret result in a variety of settings.
- PSO5** Compute statistical measures using software and programs.
- PSO6** Apply likelihood principles and calculus to derive fundamental results in probability, estimation and hypothesis testing.
- PSO7** Select standard experiment designs, with consideration of selection process, data collection, issues of bias, causality and confounding, based on specifications of a scientific study.
- PSO8** Write code to extract and reformat real data and to utilize statistical programming environments.



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Department of Sanskrit

PSO1. Develop a strong concept of ancient Indian history, philosophy and literature.

PSO2. Enhance communication skills-Listening, Speaking, Reading, Writing.

PSO3. Students will be able to write Devnagari scripts which provide them paleographical knowledge to read out the script of modern languages like Hindi and Marathi.

PSO4. Increase in depth knowledge of the Core Areas of the subject.

PSO5. Students will demonstrate the skill needed to participate in conversation that builds knowledge with collaboration.

PSO6. Reasonable understanding of multi-disciplinary relevance of literature of Sanskrit like Veda, Philosophy, Grammar, Kavya, Smitisastra etc.

PSO7. Develop research aptitude and independent thinking



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Department of Telugu

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Department of Zoology

PSO1. Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology

PSO2. Analyse the relationships among animals, plants and microbes

PSO3. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology

PSO4. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine

PSO5. Gains knowledge about research methodologies, effective communication and skills of problem-solving methods

PSO6. Contributes the knowledge for Nation building.