PROGRAM SPECIFIC OBJECTIVES (PSO)

DEPARTMENT OF COMMERCE

At the end of the programme students will

PSO 1: build a strong foundation of contemporary knowledge in different areas of Commerce.

PSO 2: get an opportunity to pursue higher courses with their learned skills

PSO 3: be able to integrate knowledge of entrepreneurship skills, social skills and develop attitude that will sustain an environment of learning and creativity among the students.

PSO 4: develop employable skills to work in functional areas effectively and efficiently.

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

At the end of the programme students will

PSO1: analyse the theoretical knowledge with the practical aspects of organizational setting and Management with various disciplines.

PSO 2: acquire knowledge of communication research and technological skills needed to analyse business situations to make strategic decisions.

PSO 3: take at least one internship to acquire learning experience which in turn transform theoretical knowledge into practical experience.

PSO 4: be able to identify the role of leaders and managers of the organizations and get effective communication skills.

B.Com (Honors) Accounting and Finance (A&F) programme

Program Specific Outcomes (PSOs) are statements that describe what the graduates of a specific program should be able to do.

PSO1: Imparts the knowledge to the graduates by blending the core areas of the subject domain in a pragmatic manner so as to emerge as efficient professionals, entrepreneurs and finance experts.

PSO 2: Grooms the students towards excellence through building competitive skills, handling leadership challenges and impacting career pathways.

PSO 3: Explores the inherent skills of graduates to the perennial industrial expectations and global challenges and make them to face the fray in competitive business environment.

BACHELOR OF BUSINESS ADMINISTRATION BBA (BPM)

Program Specific Outcomes (PSOs) are statements that describe what the graduates of a specific program should be able to do BBA (BPM) programme

PSO1: Cognizes and empower the graduates to face mercurial business world through holistic education with latest teaching – learning methodology.

PSO 2: Acquaints the students to design a system or process to meet desired needs within realistic constrains such as economic, environmental, social, political, ethical, health and safety.

PSO 3: Explores the inherent skills of graduates to the perennial industrial expectations and global challenges and make them to face the fray in competitive business environment.

DEPARTMENT OF HISTORY

At the end of the programme students will

PSO1: learn the significance of historical topics with reference to broader historical context, historiographical trends and contemporary relevance.

PSO 2: be acquainted with the general course of human history in multiple areas of the world.

PSO 3: acquire a broad understanding of historical material suitable for teaching.

PSO 4: develop an ability to convey their historical knowledge.

DEPARTMENT OF ECONOMICS

At the end of the programme students will

PSO 1: be able to understand of Indian and World Economy.

PSO 2: analyse Macro Economic Policies including Fiscal and Monetary Policies of India.

PSO 3: determine Economic variables including Inflation and unemployment.

PSO 4: be able to study various Economic problems.

DEPARTMENT OF POLITICAL SCIENCE

At the end of the programme students will

PSO 1: learn Ancient Greek Political Ideology and Indian Political Philosophy.

PSO 2: understand the nature and developments in national and international politics.

PSO 3: analyse the Indian constitutional provisions, major legislations and reforms.

PSO 4: learn critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society.

PSO 5: build overall consciousness regarding national political history, international relations and the present Indian and Western political thinkers.

PSO 6: develop knowledge of administrative studies with special reference to Indian administrative structures and practices.

PSO 7: have political awareness of different Political systems of the world.

DEPARTMENT OF MATHEMATICS

At the end of the programme students will

PSO 1: develop their knowledge in understanding, formulating and solving the real-world problems they come across.

PSO 2: be trained enough to get prepared for a variety of jobs in this competitive world, both industrial and academic.

PSO 3: be able to use their critical thinking, thereby finding optimal solutions to the problems.

PSO 4: develop interest in the research fields like Algebra, Analysis, Graph theory etc

DEPARTMENT OF PHYSICS

At the end of the programme students will

PSO 1: acquire a core knowledge of physics, including the major premises of classical mechanics, quantum mechanics, electromagnetic theory, electronics, optics, special theory of relativit y and modern physics.

PSO 2: develop the proficiency in the acquisition of data using a variety of laboratory instruments and in the analysis and interpretation of such data.

PSO 3: apply conceptual understanding of Physics to general real-world situations.

PSO 4: analyse physical problems and develop correct solutions using natural laws.

PSO 5: be able to find solutions to real life problems in society through fabrication of new materials (concern to materials science & fundamentals of nano science).

DEPARTMENT OF CHEMISTRY

At the end of the programme students will

PSO 1: understand and distinguish skills related to chemical analysis by applying suitable methodologies.

PSO 2: be able to use new spectroscopic techniques in the identification of Compounds. Evaluate and conduct chemical investigations relevant to academic and industrial fields.

PSO 3: be able to undertake hands on laboratory work and able to demonstrate and develop problem solving abilities required for successful career.

PSO 4: be able to recognise and appreciate importance and role of Chemistry and its applications in various industries such as Pharmaceutical, Environmental Monitoring, Product Quality Control, Consumer Goods, Polymer, Food and Cosmetic Industry etc.

DEPARTMENT OF COMPUTER SCIENCE

At the end of the programme students will

PSO 1: gain knowledge and be able to communicate computing concepts and solutions for solving real life complex problems faced in Industries during work.

PSO 2: be able to use design notations and apply system design processes to develop a new system and implement in organization to meet their basic requirements.

PSO 3: develop and implement solution-based system or processes that address issues and improve existing systems within a computing-based industry.

PSO 4: apply strategies in Project Development using various Programs, Techniques and **I**nstallations to deliver a Quality product for success of Organizations.

PSO 5: acquaint with the contemporary issues, latest trends in Technology development and Innovate new ideas and solutions for development of their entrepreneur skills.

DEPARTMENT OF STATISTICS

At the end of the programme students will

PSO 1: have a broad background in Mathematics and Statistics, an appreciation of how its various sub- disciplines are related, the ability to use techniques from different areas and in-depth knowledge of topics chosen from those offers through the department.

PSO 2: recognize the importance and value of mathematical and statistical thinking, training, and approach to problem solving, on a diverse variety of disciplines.

PSO 3: acquire practical skills to implement algorithms in their domains of application through the use of computer software‟s like MS EXCEL, R and SPSS.

PSO 4: acquire proficiency to describe the foundation, the advanced level and implement methods of analysis appropriate to their domains of specialization within Statistics

DEPARTMENT OF DATA SCIENCE

PROGRAM SPECIFIC OUTCOMES (PSOs): Program Specific Outcomes (PSOs) are statements that describe what the graduates of a specific program should be able to do.

A graduate with a B.Sc. in Mathematics, Statistics and Data Science will have the ability to

PSO1: Demonstrate mastery of Data Science in the following core knowledge areas like

 Data Structures and Programming Languages

 Databases, Machine Learning, Visual Analytics

 Working on parallel Distribution platforms

PSO2: Apply problem-solving skills and the knowledge of computer science to solve real world problems.

PSO3: Develop technical project reports and present them orally among the users

DEPARTMENT OF ELECTRONICS

At the end of the programme students will

PSO 1: acquire skills for applying knowledge to related fields like Embedded systems, Microprocessor and Controller programming, networking analysis and performing the maintenance of various electronic systems.

PSO 2: get good knowledge to solve real world problems related to communication systems and Digital world.

PSO 3: develop ability to apply the fundamental knowledge of core Electronics in the analysis design and development of various types of Integrated Circuits.

PSO 4: use logical and technical skills to model, simulate and analyse Electronic circuits and systems.

DEPARTMENT OF BOTANY

At the end of the programme students will

PSO 1: have a wide range of options available in terms of subjects, topics, branches and other associated areas to pursue their post-graduation degree in B.Sc. Graduates can opt to join a postgraduate level degree programme in respective field or subject to pursue further studies.

PSO 2: opt for non -science master degree programmes like Journalism, Animation, Computer Technology, Management, Hospitality sector and many others as their field of study.

PSO3: have marvellous preparation for careers in Biological research, Biotechnology, Law, Conservation biologist, public policy, and Science writing, as well as the health professions, including medicine, Veterinary medicine and public health.

PSO 4: After accomplishment of B.Sc. degree one can get employed in non – scientific sectors besides scientific sectors. They can pursue career in research

laboratories, Government corporations, Banking and Finance Sector etc. Apart from this, Life Science graduates can also find jobs in IT industry, Business, BPO, Marketing, Technical Writing etc.

DEPARTMENT OF ZOOLOGY

At the end of the programme students will

PSO 1: appreciate the vast diversity of animal life and analyse the significance of applying advanced technology in utilizing their products for human welfare.

PSO 2: comprehend the knowledge of basic concepts and advanced techniques related to animal sciences needed for their vertical mobility and for entering public services.

PSO 3: relate the knowledge and technical skills acquired in Systems Biology to various Para-medical related careers and establish as entrepreneurs in industry related fields like Poultry, Diary, Aquaculture etc.

DEPARTMENT AZC – AQUACULTURE TECHNOLOGY, ZOOLOGY & CHEMISTRY

The students will be able to achieve the following:

PSO 1: Appreciate the vast diversity of aquatic animals and plants and analyze the significance of applying advanced technology in utilizing their products for human welfare.

PSO 2: Comprehend the knowledge of basic concepts and advanced techniques related to culture of different species of plants and animals in the freshwater, brackish water and marine water bodies, needed for their vertical mobility and for entering public services.

PSO 3: Relate the knowledge and technical skills acquired in Aquaculture to various related careers and establish as entrepreneurs in industry related fields of aquaculture like Fish and Shrimp Hatchery Management, Farm Management, Feed Manufacture, Processing Units, Aqua Laboratories, Ornamental Fish Culture etc.

PSO 4: Understand the concept of ecological balance and its influence on aquatic life

and apply the knowledge in finding solutions to the environmental issues and problems related to their culture for promoting sustainable aquaculture.

DEPARTMENT OF APPLIED NUTRITION

At the end of the programme student will

PSO 1: complete an in-depth study of integrative Nutrition in the areas of human physiology, digestion, biochemical investigations, food and drug interactions, clinical nutrition, community nutrition, integrated weight management approaches, the role of social systems, food as a medicinal agent and behavioural approaches to food.

PSO 2: be able to handle and perform different processing and preservation techniques by following food safety and quality standards in Food Industries.

PSO 3: develop higher cognitive skills to apply critical thinking and analytical evaluation to contemporary Food Science information and literature.

PSO 4: Finally, the student will be competent enough to make a prospective career in Food Industry and as dieticians in hospitals & health care centers and will be able to start up a small- scale industry as an Entrepreneurs.

DEPARTMENT OF MICROBIOLOGY

At the end of the programme student will

PSO 1: be able to identify the way in which microorganisms play an integral role in disease, and how microbial and immunological methodologies are used in disease treatment and prevention.

PSO 2: apply basic and advanced molecular and genetic tools in infection biology research and understand how to plan and conduct scientific investigations.

PSO 3: be capable of explaining why microorganisms are, inhabiting a multitude of habitats and occupying a wide range of ecological habitats and result in Elemental cycling & Biodegradation.

PSO 4: be capable of appreciating the role of microorganisms in biotechnology, fermentation, medicine, and other industries important to human well- being.

DEPARTMENT OF BIOCHEMISTRY

At the end of the programme student will

PSO 1: develop critical thinking skills/ Laboratory techniques, so as to be capable of designing, carrying out, interpreting scientific experiments.

PSO 2: get exposure to applied laboratory techniques, independent and team learning and are provided with research opportunities.

PSO 3: acquire ability to conduct independent work in a laboratory.

PSO 4: get enormous job opportunities at all levels of Chemical, Diagnostic, Pharmaceutical, Quality control units, environmental testing, Forensic Science laboratories, R&D Food products and life- oriented material industries etc.

B.Sc. COMPUTER SCIENCE WITH COGNITIVE SYSTEMS (CSCS)

PROGRAM SPECIFIC OUTCOMES (PSOs):

Program Specific Outcomes (PSOs) are statements that describe what the graduates of a specific program should be able to do. B.Sc(CSCS) programme

PSO 1: Provides ability to understand real time IT infrastructure domains blended with practical lab experiences like Cisco Packet Tracer, Netbeans, Devops

PSO 2: Applies the theoretical and practical foundations of not only the core topics of computer science as well as develop an equal appreciation of current industry standards for designing and developing the application software systems that meets the needs of industry and society.

PSO 3: Makes the student understand how technology advances impact society and the social, legal, ethical and cultural ratification of computer technology and their usage.

PSO 4: understand the concept of ecological balance and its influence on life and apply the knowledge in finding solutions to the environmental issues and problems for promoting sustainable biodiversity.