M.C.A

PROGRAMME OUTCOMES (PO)

PO1 An ability to apply knowledge of mathematics, computer science and management in practice.

PO2 An ability to identify, critically analyze, formulate and develop computer applications.

PO3 An ability to select modern computing tools and techniques and use them with dexterity.

PO4 An ability to design a computing system to meet desired needs within realistic constraints such as safety, security and applicability.

PO5 An ability to devise and conduct experiments, interpret data and provide well informed conclusions.

PO6 An ability to understand the impact of system solutions in a contemporary, global, economical, environmental, and societal context for sustainable development

PO7 An ability to function professionally with ethical responsibility as an individual as well as in multidisciplinary teams with positive attitude

PO8 An ability to effectiveness in communicating with a wide range of audiences

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1 To prepare graduates who will productive careers in software industry, corporate sector, Govt. organizations and academia by providing skill based environment for teaching and research in the core and emerging areas of the discipline.

PSO2 To prepare graduates who will contribute to society as broadly educated, expressive, ethical and responsible citizens with proven expertise.

PSO3 To prepare graduates who will achieve peer-recognition; as an individual or in a team; through demonstration of good analytical, design and implementation skills.

PSO4 Develop and deploy software systems with assured quality and efficiency.

PSO5 To prepare graduates who will thrive to pursue life-long learning to fulfill their goals.

M.Sc. Computer Science (Two year) Programme

Programme Outcomes

PO1: Domain knowledge: Demonstrate knowledge of basic concepts, principles and applications of the specific science discipline.

PO2: Resource Utilisation: Cultivate the skills to acquire and use appropriate learning resources including library, e-learning resources, ICT tools to enhance knowledgebase and stay abreast of recent developments.

PO3: Analytical and Technical Skills: Ability to handle/use appropriate tools/techniques/equipment with an understanding of the standard operating procedures, safety aspects/limitations.

PO4: Critical thinking and Problem solving: Identify and critically analyse pertinent problems in the relevant discipline using appropriate tools and techniques as well as approaches to arrive at viable conclusions/solutions.

PO5: Project Management: Demonstrate knowledge and scientific understanding to identify research problems, design experiments, use appropriate methodologies, analyse and interpret data and provide solutions. Exhibit organisational skills and the ability to manage time and resources.

PO6: Individual and team work: Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7: Effective Communication: Communicate effectively in spoken and written form as well as through electronic media with the scientific community as well as with society at large. Demonstrate the ability to write dissertations, reports, make effective presentations and documentation.

PO8: Environment and Society: Analyse the impact of scientific and technological advances on the environment and society and the need for sustainable development.

PO9: Ethics: Commitment to professional ethics and responsibilities.

PO10: Life-long learning: Ability to engage in life-long learning in the context of the rapid developments in the discipline.

Programme Specific Outcomes At the end of the programme, the student will be able to

PSO1: Adapt the acquired knowledge for solving current and emerging issues in Computer Science and involved in life long learning.

PSO2: Gain and apply the knowledge of computer science concepts in appropriate domain of interest.

PSO3: Ability to analyze the problem, identify the required computing facility and implement it to obtain solutions.

PSO4: Identify and formulate algorithmic principles, mathematical knowledge and theory of Computer Science in modeling and design of computer-based systems.

PSO5: Understand and choose the appropriate modern techniques and tools for the complex systems of various domains and understands the advantages and limitations.

PSO6: Ability to communicate effectively in the basis of presenting their research work and gain knowledge on documentation and reports writing in a professional way.

PSO7: Students can independently enable to acquire the innovative ideas as per the modern era and they can create a value and wealth for the futuristic world.

PSO8: Develop and deploy software and/or hardware systems with assured quality and efficiency.

M.Sc. Software Engineering (Five year) Programme

PROGRAMME OUTCOMES (PO)

PO1.Domain knowledge: Demonstrate knowledge of basic concepts, principles and applications of the specific science discipline.

PO2. Resource Utilisation. Cultivate the skills to acquire and use appropriate learning resources including library, e-learning resources, ICT tools to enhance knowledge-base and stay abreast of recent developments.

PO3.Analytical and Technical Skills: Ability to handle/use appropriate tools/techniques/equipment with an understanding of the standard operating procedures, safety aspects/limitations.

PO4.Critical thinking and Problem solving: Identify and critically analyse pertinent problems in the relevant discipline using appropriate tools and techniques as well as approaches to arrive at viable conclusions/solutions.

PO5.Project Management: Demonstrate knowledge and scientific understanding to identify research problems, design experiments, use appropriate methodologies, analyse and interpret data and provide solutions. Exhibit organisational skills and the ability to manage time and resources.

PO6.Individual and team work: Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7.Effective Communication: Communicate effectively in spoken and written form as well as through electronic media with the scientific community as well as with society at large. Demonstrate the ability to write dissertations, reports, make effective presentations and documentation.

PO8. Environment and Society: Analyse the impact of scientific and technological advances on the environment and society and the need for sustainable development.

PO9. Ethics: Commitment to professional ethics and responsibilities. PO10.Life-long learning: Ability to engage in life-long learning in the context of the rapid developments in the discipline.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1. Apply software engineering knowledge and methods including design, analysis and evolution of models to evolve the solution for complex issues in various disciplines.

PSO2. Formulate new solutions for social problems or improve the existing methodologies to cater the present needs of the society

PSO3. Design efficient algorithms using the concepts of mathematical and computer science for better outcome within the stipulated duration.

PSO4. Modernize business / social processes and systems to increase operating efficiency by adopting latest software engineering methodologies.

PSO5. Develop and deploy software systems with assured quality and efficiency.

PSO6. Demonstrate and apply software engineering principles in the projects developing in the multidisciplinary environment.

PSO7. Develop professional skills in students that prepare them for immediate employment and life-long learning in advanced areas of software engineering.

PSO8. Work independently by applying appropriate techniques, resources in modern software developments.

M.Sc. Information Technology (Five year) Programme

Programme Outcomes (PO)

PO1: Domain knowledge: Demonstrate knowledge of basic concepts, principles and applications of the specific science discipline.

PO2: Resource Utilisation. Cultivate the skills to acquire and use appropriate learning resources including library, e-learning resources, ICT tools to enhance knowledge-base and stay abreast of recent developments.

PO3: Analytical and Technical Skills: Ability to handle/use appropriate tools/techniques/equipment with an understanding of the standard operating procedures, safety aspects/limitations.

PO4: Critical thinking and Problem solving: Identify and critically analyse pertinent problems in the relevant discipline using appropriate tools and techniques as well as approaches to arrive at viable conclusions/solutions.

PO5: Project Management: Demonstrate knowledge and scientific understanding to identify research problems, design experiments, use appropriate methodologies, analyse and interpret data and provide solutions. Exhibit organisational skills and the ability to manage time and resources.

PO6: Individual and team work: Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7: Effective Communication: Communicate effectively in spoken and written form as well as through electronic media with the scientific community as well as with society at large. Demonstrate the ability to write dissertations, reports, make effective presentations and documentation.

PO8: Environment and Society: Analyse the impact of scientific and technological advances on the environment and society and the need for sustainable development.

PO9: Ethics: Commitment to professional ethics and responsibilities.

PO10: Life-long learning: Ability to engage in life-long learning in the context of the rapid developments in the discipline.

Programme Specific Outcomes (PSO)

PSO1: Take leading roles in industry, academia, entrepreneurship and applications.

PSO2: Analyze, design, validate and implement state-of-the-art Information Communication Technology systems in their operational context.

PSO3: Scientific, ethical and socially responsible approach for conducting and contributing to research in their specific area of study and to international trends in and related to their field of study.

PSO4: Implement the concepts of computer networks, cyber security, computer communication, data repository, data analytics, and to implement these concepts, the students are expected to develop skills on design and analyzing the problem and to take a decision on the problem.

PSO5: Identify appropriate mathematical and statistical techniques to solve the problems and develop a system which is useful to the industry and scientific communities, and the society.

PSO6: Develop programming skills in recent computer software to implement the above concepts.

PSO7: Handle the projects related to electronic commerce, software development related to on-line applications and can achieve organizational goals and objectives.

PSO8: Control, and maintain the communication system networks, and they should be cope up with the cutting-edge communication technology.

M.Sc. Data Science (Two year) Programme

PROGRAMME OUTCOMES (PO)

PO1.Domain knowledge: Demonstrate knowledge of basic concepts, principles and applications of the specific science discipline.

PO2. Resource Utilisation. Cultivate the skills to acquire and use appropriate learning resources including library, e-learning resources, ICT tools to enhance knowledge-base and stay abreast of recent developments.

PO3.Analytical and Technical Skills: Ability to handle/use appropriate tools/techniques/equipment with an understanding of the standard operating procedures, safety aspects/limitations.

PO4.Critical thinking and Problem solving: Identify and critically analyse pertinent problems in the relevant discipline using appropriate tools and techniques as well as approaches to arrive at viable conclusions/solutions.

PO5.Project Management: Demonstrate knowledge and scientific understanding to identify research problems, design experiments, use appropriate methodologies, analyse and interpret data and provide solutions. Exhibit organisational skills and the ability to manage time and resources.

PO6.Individual and team work: Exhibit the potential to effectively accomplish tasks independently and as a member or leader in diverse teams, and in multidisciplinary settings.

PO7.Effective Communication: Communicate effectively in spoken and written form as well as through electronic media with the scientific community as well as with society at large. Demonstrate the ability to write dissertations, reports, make effective presentations and documentation.

PO8. Environment and Society: Analyse the impact of scientific and technological advances on the environment and society and the need for sustainable development.

PO9. Ethics: Commitment to professional ethics and responsibilities.

PO10.Life-long learning: Ability to engage in life-long learning in the context of the rapid developments in the discipline.

PROGRAMME SPECIFIC OUTCOMES (PSO)

PSO1. Apply software engineering knowledge and methods including design, analysis and evolution of models to evolve the solution for complex issues in various disciplines.

PSO2. Formulate new solutions for social problems or improve the existing methodologies to cater the present needs of the society

PSO3. Design efficient algorithms using the concepts of mathematical and computer science for better outcome within the stipulated duration.

PSO4. Modernize business / social processes and systems to increase operating efficiency by adopting latest software engineering methodologies.

PSO5. Develop and deploy software systems with assured quality and efficiency.

PSO6. Demonstrate and apply software engineering principles in the projects developing in the multidisciplinary environment.

PSO7. Develop professional skills in students that prepare them for immediate employment and life-long learning in advanced areas of software engineering.

PSO8. Work independently by applying appropriate techniques, resources in modern software developments.