

Master of Computer Applications (MCA) is a six-semester full-time post-graduate Program spread over three years.

### **PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

- PE01. Enrolled or completed research studies of societal importance in the core and allied areas of Computer Science.
- PE02. Assume key positions in research, industry and academia.
- PE03. Continued to learn and to adapt to world of constantly evolving technologies in the core or allied areas of Computer Science.

### **PROGRAM OUTCOMES (POs)**

After completion of the program, a successful student will be able to:

- P01. Apply knowledge of computing fundamentals, computing specialization, mathematics, and domain knowledge appropriate for the computing specialization to the abstraction and conceptualization of computing models from defined problems and requirements.
- P02. Identify, formulate, research literature, and solve complex computing problems reaching substantiated conclusions using fundamental principles of mathematics, computing sciences, and relevant domain disciplines.
- P03. Design and evaluate solutions for complex computing problems, and design and evaluate systems, components, or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
- P04. Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

- P05. Create, select, adapt and apply appropriate techniques, resources, and modern computing tools to complex computing activities, with an understanding of the limitations.
- P06. Understand and commit to professional ethics and cyber regulations, responsibilities, and norms of professional computing practices.
- P07. Recognize the need, and have the ability, to engage in independent learning for continual development as a computing professional.
- P08. Demonstrate knowledge and understanding of the computing and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- P09. Communicate effectively with the computing community, and with society at large, about complex computing activities by being able to comprehend and write effective reports, design documentation, make effective presentations, and give and understand clear instructions.
- P010. Understand and assess societal, environmental, health, safety, legal, and cultural issues within local and global contexts, and the consequential responsibilities relevant to professional computing practices.
- P011. Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary environments.
- P012. Identify a timely opportunity and using innovation to pursue that opportunity to create value and wealth for the betterment of the individual and society at large.

### **PROGRAM SPECIFIC OUTCOMES (PSOs)**

On successful completion of M.C.A Program, MCA graduates will be able to:

- PS01. Apply the knowledge of Mathematical foundation, Business Management and Information Technology to the solutions of real world problems.
- PS02. Analyze, Design and Develop solutions in real time in the domains of technical, managerial, economical and social constraints by using current technologies in Information Management, Software Engineering, Platform Based Development, and Computer Networks skills.

- PS03. Use innovative ideas to create better environment in order to solve complex problems in the domains of Information Management, Software Engineering, Platform Based Development and Computer Networks for the excellence of an individual and society.
- PS04. Apply appropriate techniques, resources, and modern tools to complex real time problems in the domains of Information Management, Software Engineering, Platform Based Development and Computer Networks.