



Outcome Based Education

As per the philosophy of OBE, expected outcomes from the students at different stages during their time in the program are articulated ahead of time and all the academic activities are planned and implemented such that they all contribute to the attainment of these outcomes. The curriculum of the program, teaching and learning processes, infrastructural facilities and the co-curricular and extracurricular activities are all planned and organized with the overall objectives in mind. Given below are the Programme Educational Objectives (PEOs) and Programme Outcomes (POs) of the M.C.A. Programme offered by the Department.

The PEOs of MCA programme are:

The graduates, within 4-5 years of completing the course, will

PEO1. Excel as Competent computing professionals by applying strong technical knowledge, emerging technologies, and problem solving skills in the software and IT industry.

PEO2. Develop innovative, sustainable, and ethical technology solutions through research, entrepreneurship and professional practice to address industry and societal challenges.

PEO3. Become globally competent, socially responsible, and ethical professionals committed leadership. Lifelong learning and continuous professional development.

The POs, which are prescribed by NBA, to be attained at the time of graduation are as follows (R25 & R26 - Regulations)

PROGRAM OUTCOMES

- 1. PO1 (Foundation Knowledge):** Apply knowledge of mathematics, programming logic and coding fundamentals for solution architecture and problem solving.
- 2. PO2 (Problem Analysis):** Identify, review, formulate and analyse problems for primarily focussing on customer requirements using critical thinking frameworks.
- 3. PO3 (Development of Solutions):** Design, develop and investigate problems with as an innovative approach for solutions incorporating ESG/SDG goals.

4. **PO4 (Modern Tool Usage):** Select, adapt and apply modern computational tools such as development of algorithms with an understanding of the limitations including human biases.
5. **PO5 (Individual and Teamwork):** Function and communicate effectively as an individual or a team leader in diverse and multidisciplinary groups. Use methodologies such as agile.
6. **PO6 (Project Management and Finance):** Use the principles of project management such as scheduling, work breakdown structure and be conversant with the principles of Finance for profitable project management.
7. **PO7 (Ethics):** Commit to professional ethics in managing software projects with financial aspects. Learn to use new technologies for cyber security and insulate customers from malware
8. **PO8 (Life-long learning):** Change management skills and the ability to learn, keep up with contemporary technologies and ways of working.