

Program Overview

Master of Computer Applications (MCA)

Department of Mathematical Sciences & Computer Application
Bundelkhand University, Jhansi

The broad objective of the Master of computer Application, 2 years (4-Semesters) programme is to prepare post graduates students for dynamic careers in software and IT industry, corporate sector, Govt. organizations and academic world by providing skill based environment for teaching and research in the core and emerging areas of the discipline.

The Programmes driving force is on giving the students a thorough and sound background in theoretical and skill-oriented courses relevant to the latest computer software development. The programme emphasizes the application of software and IT technologies to solve mathematical, computing, communications/networking and commercial problems. This Master's Degree Programme has been designed with a semester approach in mind. The first year courses are aimed at skills development in computers using various technologies, the second year is more focused on core courses providing conceptual frame work and provides the specialization and the project work.

Programme Educational Objectives

The Master of Computer Applications Programme Educational Objectives aims to:

1. MCA graduates who will have successful careers based on their understanding of formal and practical methods of Application Development using the concepts of computer programming, software and design principles.
2. MCA graduates will demonstrate analytical and design skills including the ability to generate creative solutions and foster team-oriented, professionalism through effective communication in their careers.
3. MCA graduates who will exhibit effective work ethics and be able to adapt to the challenges of a dynamic job environment.

Program Outcomes (POs)

The Master of Computer Applications (MCA) Programme will prepare its graduates to achieve:

PO1	Domain Knowledge	The understanding to apply knowledge of computing and technological advances appropriate to the programme.
PO2	Skill Enhancement	Skills to analyze a problem, and identify and define the logical modeling of solutions.
PO3	Design & Implementation	An ability to design implements and evaluate a computer-based system, process, component, or programme to meet stakeholder needs.
PO4	Project Management	The knack to function effectively in teams to accomplish a common goal.
PO5	Ethics	A sense of professional, ethical, legal, security and social issues and responsibilities.
PO6	Communication	Effectiveness in communicating with a wide range of audiences.
PO7	Investigation of complex problems.	An ability to analyze the local and global impact of business solutions on individuals, organizations, and society.
PO8	Life-long Learning	An identification of the need to engage in continuing professional development.

Program Specific Outcomes (PSOs)

Program Specific Outcomes (PSOs): PSOs are statements that describe what the students of MCA should be able to do.

PSO1:Produce knowledgeable and skilled human resources which are employable in IT and ITES.

PSO2:Impart knowledge required for planning, designing and building complex Application software Systems as well as provide support to automated systems or application.

PSO3:Produce entrepreneurs who can develop customized solutions for smallto large Enterprises.

PSO4:To develop academically competent and professionally motivated personnel, equipped with objective, critical thinking, right moral and ethical values that compassionately foster the scientific temper with a sense of social responsibility.

PSO5:To develop students to become globally competent.

PSO6:To inculcate Entrepreneurial skills among students.