



DEPARTMENT OF COMPUTER SCIENCE AND APPLICATIONS

Under Graduate Programme (BCA)

PEO 1 – Future-Ready Computing Professionals

Graduates will establish themselves as versatile computing professionals who can seamlessly adapt to disruptive technologies and evolving industry ecosystems.

PEO 2 – Creative Digital Solutionists

Graduates will apply computational thinking and design principles to create innovative, user-centred digital solutions addressing societal, entrepreneurial, and interdisciplinary challenges.

PEO 3 – Ethical and Sustainable Technologists

Graduates will demonstrate responsibility in developing and deploying technology by upholding ethical practices, inclusivity, and sustainable computing principles.

PEO 4 – Research-Inspired Lifelong Learners

Graduates will engage in continuous knowledge exploration, cultivating research orientation and entrepreneurial initiative to contribute meaningfully to both academic and industry advancements.

Programme Outcome (PO)

• Foundation Knowledge

Apply knowledge of mathematics, computing fundamentals, and programming logic to build efficient solutions for real-world problems.

• Problem Analysis

Identify, review, and analyze computing problems using structured approaches, critical thinking, and algorithmic strategies.

• Design & Development of Solutions

Design software solutions with scalability, usability, and sustainability, integrating ESG/SDG considerations.

• Modern Tool Usage

Select and apply modern computational tools, frameworks, and environments with an understanding of their capabilities and limitations.

- **Teamwork & Communication**

Function effectively as an individual, team member, or leader in diverse and multidisciplinary settings using collaborative methodologies like Agile.

- **Project Management & Finance**

Apply project management principles, scheduling, and financial planning to deliver profitable and sustainable computing projects.

- **Ethics & Professional Responsibility**

Demonstrate ethical practices in computing by ensuring data security, privacy, and responsible use of emerging technologies.

- **Life-long Learning**

Develop adaptability and change-management skills to continuously learn and apply new technologies and methodologies.

Bachelor of Computer Applications – Regular

Program Specific Outcome (PSO's)

- Apply programming, database, and networking concepts to design general-purpose software solutions.
- Develop applications using standard frameworks and tools with focus on efficiency, user experience, and maintainability.

Under Graduate Programme - Bachelor of Computer Applications (AI & ML)

Program Specific Outcome (PSO's)

- Apply AI and ML techniques to design intelligent systems that learn and adapt to new data.
- Implement solutions using ML/DL frameworks with emphasis on fairness, transparency, and ethical use of AI.

Under Graduate Programme - Bachelor of Computer Applications (Data Science)

Program Specific Outcome (PSO's)

- Analyse structured and unstructured data using statistical, computational, and visualization techniques.
- Build predictive and prescriptive models that provide actionable insights for business and societal challenges.

Under Graduate Programme - Bachelor of Computer Applications (Full Stack Development)

Program Specific Outcome (PSO's)

- Design and develop end-to-end applications by integrating front-end, back-end, APIs, and databases.
- Deploy and maintain applications on cloud and containerized environments using DevOps practices.

Post Graduate Programme (MCA)

Program Educational Objectives (PEO's)

PEO 1 – Adaptive Tech Innovators

Graduates will evolve as adaptive professionals who can rapidly integrate emerging technologies such as artificial intelligence, blockchain and quantum computing into real-world business and societal solutions.

PEO 2 – Responsible Digital Architects

Graduates will demonstrate the ability to design sustainable, ethical, and secure digital ecosystems

PEO 3 – Research-driven Problem Solvers

Graduates will engage in applied research and interdisciplinary collaboration to contribute original insights, products, or solutions to complex computational and industrial problems.

Programme Outcome (PO)

- **Foundation Knowledge:** Apply knowledge of mathematics, programming logic and coding fundamentals for solution architecture and problem solving.

- **Problem Analysis:** Identify, review, formulate and analyse problems primarily focusing on customer requirements using critical thinking frameworks.
- **Development of Solutions:** Design, develop and investigate problems with as an innovative approach for solutions incorporating ESG/SDG goals.
- **Modern Tool usage:** Select, adapt and apply modern computational tools such as development of algorithms with an understanding of the limitations including human biases.
- **Individual and Teamwork:** Function and communicate effectively as an individual or a team leader in diverse and multidisciplinary groups. Use methodologies such as agile.
- **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.
- **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.
- **Life-long learning:** Change management skills and the ability to learn, keep up with contemporary technologies and ways of working.

Program Specific Outcome (PSO's)

PSO – Domain-tailored Computational Mastery

Graduates will be able to conceptualize, develop, and deploy intelligent software systems customized for specialized domains integrating deep computational logic with practical societal needs.