DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS

PROGRAM OUTCOMES (POs)

Bachelor of Computer Applications – Artificial Intelligence (BCA AI)

Introduction

The Bachelor of Computer Applications in Artificial Intelligence (BCA AI) program is designed to provide students with strong foundations in computer applications, artificial intelligence, machine learning, data analysis, cloud technologies, and emerging intelligent systems. The program aims to develop technical competence, analytical thinking, communication skills, ethical responsibility, and interdisciplinary understanding required for modern AI-driven industries and higher education.

PROGRAM OUTCOMES (POs)

After successful completion of the BCA AI program, graduates will be able to:

PO1 – Computational and AI Knowledge

Apply knowledge of computer fundamentals, programming languages, artificial intelligence, machine learning, databases, cloud computing, and intelligent systems for solving computational problems.

PO2 – Problem Solving and Analytical Skills

Identify, analyze, and develop appropriate computational solutions for real-world problems using algorithms, data structures, statistical techniques, and AI methodologies.

PO3 – AI and Software Development Skills

Design, develop, test, and implement intelligent applications, software systems, machine learning models, and AI-based solutions using suitable tools and technologies.

PO4 – Modern Tool Usage

Use modern software tools, cloud platforms, AI frameworks, big data technologies, robotics concepts, and automation tools effectively in computing applications.

PO5 – Data Analysis and Decision Making

Apply data analysis, visualization, statistical reasoning, and predictive techniques for meaningful interpretation and intelligent decision making.

PO6 – Professional Ethics and Social Responsibility

Demonstrate professional ethics, cyber ethics, teamwork, leadership qualities, and awareness of social responsibilities in the development and deployment of AI technologies.

PO7 – Communication and Interpersonal Skills
Communicate effectively through oral, written, and digital modes and function efficiently as an individual and as a team member in multidisciplinary environments.

PO8 – Lifelong Learning and Adaptability
Develop self-learning ability, critical thinking, adaptability, and continuous learning skills to cope with rapidly evolving technologies and professional challenges.

PO9 – Interdisciplinary and Scientific Knowledge
Integrate knowledge from multidisciplinary and minor courses such as mathematics, statistics, physics, electronics, financial accountancy, and social sciences for holistic understanding and problem solving.

CO-PO Mapping Methodology
The Course Outcomes (COs) of individual courses are mapped with the relevant Program Outcomes (POs) using the following scale:

Mapping Level	Description
3	High Correlation
2	Moderate Correlation
1	Low Correlation
-	No Correlation

Assessment and Attainment
The attainment of Program Outcomes is measured through:

- Internal Assessment Tests
- Semester End Examinations
- Laboratory Performance
- Assignments and Seminars
- Mini Projects and Major Projects
- Viva-Voce Examinations
- Practical Implementation Activities
- Student Participation in Technical Events

The attainment levels are evaluated periodically for continuous improvement of curriculum delivery and academic quality enhancement.

Conclusion
The Program Outcomes of BCA AI aim to prepare graduates with strong technical knowledge in artificial intelligence and computing, analytical abilities, ethical values, communication skills, and interdisciplinary competence required for employment, higher education, entrepreneurship, research, and societal contribution.

The Program Outcomes are approved in BOS and Ratified in Academic Council.

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