Department Of Computer Science & Applications

PROGRAM OUTCOMES (POs)
Bachelor of Computer Applications (BCA)

Introduction
The Bachelor of Computer Applications (BCA) program is designed to equip students with knowledge and skills in computer science, software development, problem solving, communication, interdisciplinary learning, and professional ethics. The program outcomes define the abilities and competencies expected from graduates upon successful completion of the program.

PROGRAM OUTCOMES (POs)
After successful completion of the BCA program, graduates will be able to:

PO1 – Computational Knowledge
Apply knowledge of computer fundamentals, programming languages, databases, operating systems, networking, and software engineering for solving computing problems.

PO2 – Problem Solving Skills
Identify, analyze, and develop solutions for computational and real-world problems using appropriate algorithms, programming techniques, and modern tools.

PO3 – Software Development Ability
Design, develop, test, and maintain software applications using suitable programming languages, web technologies, databases, and frameworks.

PO4 – Modern Tool Usage
Use modern computing tools, cloud technologies, cybersecurity practices, and emerging technologies effectively in software development and IT applications.

PO5 – Professional Ethics and Teamwork
Demonstrate professional ethics, cyber ethics, teamwork, leadership qualities, and social responsibility in computing practices.

PO6 – Communication Skills
Communicate effectively through oral, written, and digital modes using appropriate language and presentation skills in academic and professional environments.

PO7 – Lifelong Learning
Develop self-learning ability, adaptability, critical thinking, and interpersonal skills for continuous professional and personal growth.

PO8 – Interdisciplinary Knowledge
Integrate knowledge from multidisciplinary and minor courses such as history, geography, mathematics, statistics, physics, electronics, and financial accountancy for holistic understanding and problem solving.

PO9 – Analytical and Quantitative Reasoning
Apply mathematical, statistical, scientific, and logical reasoning skills for data analysis, decision making, and computational applications.

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
- Assignments and Seminars
- Laboratory Performance
- Projects and Viva-Voce
- Student Participation and Practical Activities

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

Conclusion
The Program Outcomes of BCA aim to prepare graduates with technical competence, communication skills, ethical values, interdisciplinary understanding, and lifelong learning abilities required for employment, higher education, entrepreneurship, and societal contribution.

These Program Outcomes are approved in BOS & ratified in Academic Council.

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