

PROGRAM OUTCOMES (POS) FOR COMPUTER SCIENCE MAJOR

1. Knowledge of Computing Fundamentals

Students will have a strong foundation in computer science, including digital logic, discrete structures, and programming paradigms, enabling them to apply theoretical and practical knowledge effectively.

2. Problem-Solving and Analytical Skills

Students will be able to analyze, design, and implement algorithms and programs to solve complex computational problems, leveraging logical and critical thinking skills.

3. Programming Proficiency

Students will demonstrate expertise in multiple programming languages, including C, Java, and Python, developing the ability to write, debug, and optimize code efficiently.

4. Software Development and Design

Students will be able to develop and design software solutions using Object-Oriented Programming, web technologies, and digital system design principles.

5. Mathematical and Analytical Abilities

Students will apply mathematical concepts such as discrete structures and logic to analyze and solve computational problems effectively.

6. Digital and System Design Competency

Students will be able to understand and design combinational and sequential circuits, ensuring the efficiency and reliability of digital systems.

7. Web Development Skills

Students will be able to design and develop functional web pages using HTML and related technologies, ensuring user-friendly interfaces and interactive experiences.

8. Effective Communication and Collaboration

Students will develop the ability to communicate technical concepts effectively, collaborate in team environments, and present ideas coherently.

9. Adaptability and Lifelong Learning

Students will be able to adapt to emerging technologies, learn new programming paradigms, and apply acquired knowledge to evolving computing challenges.

10. Ethical and Professional Responsibility

Students will demonstrate awareness of ethical, social, and legal responsibilities in computing, ensuring responsible and secure application of technology.