DEPARTMENT OF COMPUTER SCIENCE

PO1: **Computational Problem Solving**

Students will demonstrate advanced skills in computational problem-solving, with the ability to design and implement efficient algorithms and data structures to address real-world challenges.

PO2: **Programming Proficiency**

Students will excel in software development and programming, becoming proficient in various programming languages and tools commonly used in the field.

PO3: **Systems Design and Development**

Students will gain expertise in designing and developing software systems, including databases, web applications, and mobile apps, meeting industry standards and best practices.

PO4: **Computer Science Theory**

Students will possess a solid understanding of computer science theory, including automata, formal languages, complexity theory, and other fundamental concepts.

PO5: **Data Analysis and Machine Learning**

Students will be skilled in data analysis and machine learning, using statistical methods and machine learning techniques to extract meaningful insights from data.

PO6: **Cybersecurity and Ethical Hacking**

Students will demonstrate proficiency in cybersecurity practices, including the ability to identify vulnerabilities and protect computer systems from cyber threats.

PO7: **Human-Computer Interaction**

Students will understand principles of human-computer interaction, user experience (UX) design, and usability testing, ensuring that technology is user-friendly and accessible.

PO8: **Software Engineering**

Students will apply software engineering principles, including requirements analysis, design, development, testing, and maintenance, to produce high-quality software products.

PO9: **Cloud Computing and Distributed Systems**

Students will gain knowledge in cloud computing and distributed systems, including the ability to design and deploy applications that operate in distributed environments.

PO10: **Research and Innovation**

Students will engage in research projects, fostering innovative thinking and contributing to advancements in the field of computer science.

PO11: **Ethical and Professional Conduct**

Students will adhere to the highest ethical standards in their academic and professional activities, respecting intellectual property rights and the ethical principles within the field of computer science.