Course Learning Outcomes (CLOs)

CLO1: Apply fundamental data structures such as arrays, stacks, queues, linked lists, trees, and graphs to solve computational problems.

CLO2: Analyze the efficiency of algorithms using Big-O notation and identify optimal solutions for given problems.

CLO3: Design and implement algorithms to solve real-world problems with appropriate data structures.

CLO4: Demonstrate problem-solving skills through practical programming assignments and projects.

CLO5: Compare and contrast different algorithmic approaches in terms of performance, scalability, and memory usage.