School of Engineering and Technology

Ref. No.: CSOET/CSE/INT/2025/173 **Dated:** 30th September 2025

NOTICE
(Test Announcement Batch: 2023)

Course Code: 25CS020		**Course Title:** Algorithm Design & Implementation	
Examination: Formative Assessment-I		**Max. Marks:** 40	**Duration:** 60 Mins.
Date of Examination: October 07, 2025 to October 10, 2025	**Exam Time:** Class Time Table	**Mode of Examination:**	Offline
Programme & Semester: B.E. (CSE)-I			

Syllabus for Test:

Session No.	Topics
1-2	Introduction to concept of Algorithm Design and Complexity.
3-4	Big O notation, Algorithm Complexity-Average, best and worst case.
5-7	Introduction to Hash Table, Collision, Collision Avoidance Strategies- Linear Probing, quadratic probing, Separate Chaining.
8-10	Heap and Priority Queues: Heap Sort.
11-12	Heap and Priority Queues: Implement Priority Queue using Linked List, Priority Queue Class in Java.
13-15	Introduction to Binary Tree, Creating Binary Tree.

Pattern of Question Paper:

Mark(s)	1 Mark MCQ	5 Mark Coding
No. of questions	30	02
Options	-	-

Name of Course Coordinator: Dr. Nagesh Kumar

Signature of Course Coordinator