

## School of Engineering and Technology

Ref. No.: CSOET/CSE/INT/2025/184

Dated: 09<sup>th</sup> October 2025

### NOTICE

(Test Announcement Batch: 2023)

<b>Course Code:</b> 25CS023		<b>Course Title:</b> Professional Practices-System Design	
<b>Examination:</b> Sessional Test-I		<b>Max. Marks:</b> 40	<b>Duration:</b> 90 Mins.
<b>Date of Examination:</b> 14 <sup>th</sup> October 2025	<b>Time:</b> <b>Session-I:</b> 09:30 AM – 11:00 AM <b>Session-II:</b> 12:00 PM – 01:30 PM	<b>Mode of Examination:</b>	Offline
<b>Programme &amp; Semester:</b> B.E. (CSE)-I			

### Syllabus for Test:

Session No.	Topics
1	Basics and Types of Operating Systems
2	Process Management and Process Life Cycle
3	Process Scheduling – Pre-emptive and Non-Pre-emptive Algorithms
4	Threading and Multithreading Concept
5	Process Synchronization: Semaphores
6	Race Condition and Critical Section Problem
7	Deadlock: Detection, Avoidance, and Prevention
8	Memory Management: Paging and Segmentation
9	Virtual Memory: Page Replacement Algorithms and Thrashing
10	File System Overview in an Operating System

### Pattern of Question Paper:

Mark(s)	1 Mark MCQ	2 Marks MCQ
<b>No. of questions</b>	20	10
<b>Options</b>	-	-

Name of Course Coordinator: Dr. Rani Kumari

Signature of Course Coordinator