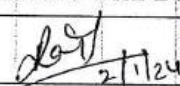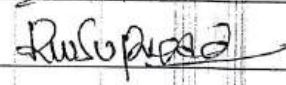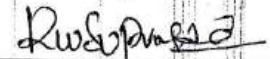# Swarnandhra College of Engineering & Technology

Autonomous and recognized under 2(F) and 12(B) by UGC

Recognized by AICTE, permanently affiliated to JNTUK Kakinada

Accredited by NAAC with 'A' Grade (2nd Cycle)

Seetharamapurm, Narsapur – 530280 (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods/ Week	Academic Year	Date of commencement
20IT4L03	Operating Systems Lab in Linux	IV	IT	3	2023-24	03-01-2024

COURSE OUTCOMES

1	Acquire basic knowledge in Linux operating System
2	Understand concepts of CPU Scheduling.
3	Describe process management, scheduling and concurrency control mechanisms.
4	Analyze Page Replacements and deadlocks.
5	Compare various file systems and its operating systems examples

Experiment Number	Experiment	Contact Hours
1	Execution of various file/directory handling commands in Linux.	3
2	To study the various commands operated in vi editor in LINUX.	3
3	To study the various File Access Permission and different types users in LINUX	3
4	Simulate First Come First Serve CPU scheduling algorithm.	1
5	Simulate Shortest Job First CPU scheduling algorithm.	2
6	Simulate Priority CPU scheduling algorithm.	3
7	Simulate Round Robin CPU scheduling algorithm.	3
8	Simulate Sequential file allocation strategy.	1
9	Simulate Linked file allocation strategy.	2
10	Simulate Indexed file allocation strategy.	1
11	Simulate First In First Out page replacement algorithm.	2

12	Simulate Least Recently used page replacement algorithm.	1
13	Simulate Optimal page replacement algorithm.	2
14	Write Programs to simulate free space management.	3
15	Simulate Bankers Algorithm for Dead Lock Avoidance.	3
	Cumulative Proposed Periods	33

		Name	Signature with Date
i	Faculty	Mr. Ch R K Raju	2/1/24
ii	Module Coordinator	Dr. RVVSV Prasad	
iii	Programme Coordinator	Dr. RVVSV Prasad	

Principal