eted)

CONTOUCT OF CONTOUCT

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 LAB TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods/ Week	Academic Year	Date of commencement
23IT4L01	Operating Systems & Software Engineering Lab	IV	CBS	3	2024-25	16-12-2024
COURSE O	UTCOMES					
1	Provide insights	into system	calls, file	systems, semaph	ores,	
2	Develop and deb implementation	ug CPU Sc	heduling a	lgorithms, page r	eplacement a	algorithms, threa
3	Implement Bank	ers Algoritl	nms to Ave	oid the Dead Loc	k	
4	Acquire the gene	eric softwar	e developr	ment skill through	ı various staş	ges of software
5	Generate test cas	ses for softv	vare testin	g	A. Villa	
Experimen	t		Experime	ent		Contact Hours
1	Practicing of Ba	sic UNIX (Commands			1
2				INIX operating s at, opendir and re		1
3	Simulate UNIX					.1
4	Simulate the fol a)FCFS	lowing CPI b) SJF	U scheduli c) Prior	ng algorithms ity d) Round	Robin	3
5	Control the nun a) Semaphore 1			by the operating s	ystem with	3
6	Write a program	n to illustra	ite concun	rent execution of	threads usin	g 1

aluation is

absent on a for absent,

umns in the

e AAR and

lateral entry actual no. of be given as

ernal marks.

ab Schedule

LAB SCHEDULE PLAN



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)

8	Implement the following memory allocation methods for fixed partition a)First fit b) Worst fit c) Best fit	3		
9	Simulate the following page replacement algorithms a)FIFO b) LRU c) LFU	3		
10	Simulate Paging Technique of memory management.			
11	Implement Bankers Algorithm for Dead Lock avoidance and prevention			
12	Simulate the following file allocation strategies a) Sequential b) Indexed c) Linked	1		
13	Download and install nachos operating system and experiment with it			
14	Perform the following, for the following experiments: i. Do the Requirement Analysis and Prepare SRS ii. Draw E-R diagrams, DFD, CFD and structured charts for the project. a. Course Registration System b. Students Marks Analyzing System c. Online Ticket Reservation System d. Stock Maintenance	3		
15	Consider any application, using COCOMO model, estimate the effort.			
16	Consider any application, Calculate effort using FP oriented estimation model.			
17	Draw the UML Diagrams for the problem a, b, c, d.			
18	Design the test cases for e-Commerce application (Flipcart, Amazon)			
19	Design the test cases for a Mobile Application (Consider any example from Appstore)			
20	Design and Implement ATM system through UML Diagrams.			
	Cumulative Proposed Periods			

LAB SCHEDULE PLAN



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)

	Name	Signature with Date
Faculty	Mr. MNV L Narayana	4ml
Module Coordinator	Mr. Ch R K Raju	do
Programme Coordinator	Dr. RVVSV Prasad	Rusable

Principal