

ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERS SCIENCE AND ENGINEERING
LECTURE SCHEDULE

Subject: **Operating Systems**

Name: **I. BALA VENKATESWARLU**

No. of Lectures per week: **5+1* (Tutorial)**

Academic Year: **2018 - 19**

Year & Sem/Section: **III - I Sem 'C'**

S. No.	Date	Unit No.	Topic to be covered
1	11-06-2018	I	Introduction to Operating System Concept
2	12-06-2018		Types of operating systems
3	13-06-2018		Operating systems concepts
4	18-06-2018		Operating systems concepts
5	19-06-2018		Operating systems services
6	20-06-2018		Introduction to System call
7	22-06-2018		System call types
8	23-06-2018		Operating System Structures
9	23-06-2018		Tutorial
10	25-06-2018		Revision with PPT1
11	26-06-2018	II	Process Management – Process concept, the process, Process State
12	27-06-2018		Process State Diagram, Process control block
13	29-06-2018		Process Scheduling- Scheduling Queues
14	30-06-2018		Schedulers
15	30-06-2018		Tutorial
16	02-07-2018		Unit Test -1
17	03-07-2018		Operations on Processes
18	04-07-2018		Inter process communication
19	06-07-2018		Threading Issues
20	07-07-2018		Scheduling-Basic Concepts
21	07-07-2018		Tutorial
22	09-07-2018		Scheduling Criteria
23	10-07-2018		Scheduling Algorithms
24	11-07-2018		Revision with PPT2
25	13-07-2018	III	Memory Management: Swapping
26	14-07-2018		Contiguous Memory Allocation
27	14-07-2018		Tutorial
28	16-07-2018		Unit TEST-2
29	17-07-2018		Paging
30	18-07-2018		Structure of the Page Table
31	20-07-2018		Segmentation
32	21-07-2018		Virtual Memory Management: Virtual Memory
33	21-07-2018		Tutorial
34	23-07-2018		Demand Paging
35	24-07-2018		Page-Replacement Algorithms
36	25-07-2018		Page-Replacement Algorithms
37	27-07-2018		Thrashing
38	28-07-2018		Revision with PPT3
39	28-07-2018	Tutorial	
40	30-07-2018	IV	Concurrency: Process Synchronization
41	31-07-2018		The Critical- Section Problem
42	01-08-2018		Synchronization Hardware
43	03-08-2018		Semaphores
44	04-08-2018		Classic Problems of Synchronization
45	04-08-2018		Tutorial
46	06-08-2018	<i>Revision</i>	
47	07-08-2018	<i>Revision</i>	
48	08-08-2018	<i>Revision</i>	

49	10-08-2018		Revision	
50	11-08-2018		Revision	
51	11-08-2018		Revision	
52	13-08-2018	IV	Monitors	
53	14-08-2018		Synchronization examples	
54	17-08-2018		Principles of deadlock –System Model	
55	18-08-2018		Deadlock Characterization	
56	18-08-2018		Tutorial	
57	20-08-2018		Deadlock Prevention	
58	21-08-2018		Detection and Avoidance	
59	24-08-2018		Recovery form Deadlock	
60	25-08-2018		Revision with PPT4	
61	25-08-2018		Tutorial	
62	27-08-2018		Unit Test- 4	
63	28-08-2018		V	File system Interface- the concept of a file
64	29-08-2018			Access Methods
65	31-08-2018			Directory structure
66	04-09-2018	File system mounting		
67	05-09-2018	file sharing, protection		
68	07-09-2018	File System implementation- File system structure		
69	08-09-2018	Allocation Methods		
70	08-09-2018	Tutorial		
71	10-09-2018	Free-space management		
72	11-09-2018	Mass-storage structure overview of Mass-storage structure		
73	12-09-2018	Disk scheduling, Device drivers		
74	15-09-2018	Revision with PPT5		
75	15-09-2018	Tutorial		
76	17-09-2018	Unit Test – 5		
77	18-09-2018	VI	Linux System: Components of LINUX	
78	19-09-2018		Inter process Communication	
79	22-09-2018		Synchronization	
80	22-09-2018		Tutorial	
81	24-09-2018		Interrupts	
82	25-09-2018		Exception and System Call	
83	26-09-2018		Android Software Platform: Android Architecture	
84	28-09-2018		Operating System Services	
85	29-09-2018		Android Runtime Application Development	
86	29-09-2018		Tutorial	
87	01-10-2018		Application Structure	
88	03-10-2018		Application Process management	
89	05-10-2018		Revision with PPT6	
90	06-10-2018		Revision	
91	06-10-2018	Tutorial		
92	08-10-2018	Revision		
93	09-10-2018	Revision		
94	10-10-2018	Revision		
95	12-10-2018	Revision		
96	13-10-2018	Revision		
97	13-10-2018	Tutorial		

TEXT BOOKS:

1. Operating System Concepts- Abraham Silberchatz, Peter B. Galvin, Greg Gagne 7th Edition, John Wiley.
2. Operating systems- A Concept based Approach-D.M.Dhamdhere, 2nd Edition, TMH

REFERENCES:

1. Operating Systems’ – Internal and Design Principles Stallings, Fifth Edition–2005, Pearson education/PHI
2. Operating System A Design Approach-Crowley, TMH.
3. Modern Operating Systems, Andrew S. Tanenbaum 2nd edition Pearson/PHI.

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