

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

SUBJECT: OPERATING SYSTEMS

FACULTY: T.KRISHNA KISHORE

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

ACADEMIC YEAR: 2018-19

YEAR & SEM: III - I CSE 'B'

S. No.	Date	Unit No.	Topic to be covered
1	11-06-2018	I	Introduction to Operating System Concepts
2	12-06-2018		Types of operating systems
3	12-06-2018		operating systems concepts
4	13-06-2018		operating systems concepts
5	14-06-2018		operating systems services
6	18-06-2018		Introduction to System call
7	19-06-2018		System call types
8	19-06-2018		Tutorial
9	20-06-2018		Operating System Structures
10	21-06-2018		Revision Through Nptel Video/PPT
11	22-06-2018		Unit Test - I
12	25-06-2018	II	Process Management – Process concept, the process, Process State
13	26-06-2018		Process State Diagram, Process control block
14	26-06-2018		Tutorial
15	27-06-2018		Process Scheduling- Scheduling Queues
16	28-06-2018		Schedulers
17	29-06-2018		Operations on Processes
18	02-07-2018		Inter process communication
19	03-07-2018		Threading Issues
20	03-07-2018		Tutorial
21	04-07-2018		Scheduling-Basic Concepts
22	05-07-2018		Scheduling Criteria
23	06-07-2018		Scheduling Algorithms
24	09-07-2018		Revision Through Nptel Video/PPT
25	10-07-2018		Tutorial
26	10-07-2018	Unit Test -II	
27	11-07-2018	III	Memory Management: Swapping
28	12-07-2018		Contiguous Memory Allocation
29	13-07-2018		Paging
30	16-07-2018		Structure of the Page Table
31	17-07-2018		Segmentation
32	17-07-2018		Tutorial
33	18-07-2018		Virtual Memory Management: Virtual Memory
34	19-07-2018		Demand Paging
35	20-07-2018		Page-Replacement Algorithms
36	23-07-2018		Page-Replacement Algorithms
37	24-07-2018		Thrashing
38	24-07-2018		Revision Through Nptel Video/PPT
39	25-07-2018	Tutorial	
40	26-07-2018	IV	Concurrency: Process Synchronization
41	27-07-2018		The Critical- Section Problem
42	30-07-2018		Synchronization Hardware
43	31-07-2018		Semaphores
44	31-07-2018		Tutorial
45	01-08-2018		Classic Problems of Synchronization
46	02-08-2018		Monitors
47	03-08-2018		Synchronization examples
48	06-08-2018	Revision	
49	07-08-2018	Revision	

50	07-08-2018		Revision
51	08-08-2018		Revision
52	09-08-2018		Revision
53	10-08-2018		Revision
54	13-08-2018	IV	Principles of deadlock –System Model
55	14-08-2018		Deadlock Characterization
56	14-08-2018		Tutorial
57	16-08-2018		Deadlock Prevention
58	17-08-2018		Detection and Avoidance
59	20-08-2018		Recovery form Deadlock
60	21-08-2018		Revision Through Nptel Video/PPT
61	21-08-2018		Tutorial
62	23-08-2018		Unit Test -IV
63	24-08-2018		V
64	27-08-2018	Access Methods	
65	28-08-2018	Directory structure	
66	28-08-2018	Tutorial	
67	29-08-2018	File system mounting	
68	30-08-2018	file sharing, protection	
69	31-08-2018	File System implementation- File system structure	
70	04-09-2018	Tutorial	
71	04-09-2018	Allocation Methods	
72	05-09-2018	Free-space management	
73	06-09-2018	Mass-storage structure overview of Mass-storage structure	
74	07-09-2018	Disk scheduling, Device drivers	
75	10-09-2018	Revision Through Nptel Video/PPT	
76	11-09-2018	Tutorial	
77	11-09-2018	Unit Test -V	
78	12-09-2018	VI	Linux System: Components of LINUX
79	17-09-2018		Inter process Communication
80	18-09-2018		Synchronization
81	18-09-2018		Tutorial
82	19-09-2018		Interrupts
83	20-09-2018		Exception and System Call
84	24-09-2018		Android Software Platform: Android Architecture
85	25-09-2018		Operating System Services
86	25-09-2018		Tutorial
87	26-09-2018		Android Runtime Application Development
88	27-09-2018		Application Structure
89	28-09-2018		Application Process management
90	01-10-2018	Revision Through Nptel Video/PPT	
91	03-10-2018		Revision
92	04-10-2018		Revision
93	05-10-2018		Revision
94	08-10-2018		Revision
95	09-10-2018		Revision
96	09-10-2018		Revision
97	10-10-2018		Revision
98	11-10-2018		Revision
99	12-10-2018		Revision

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.Dhamdhare, 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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SACET-CSE