St Ann's College of Engineering and Technology

Department of Computer Science and Engineering

Lecture Schedule

Subject : Operating Systems — Year III CSE -II SEM-B

Name of the Faculty: Dr.D.N.V.Syam Kumar — Academic Year:2019-20

No of Classes per week: 4+1*(Tutorial)

S.NO	DATE	UNIT	TOPIC
1	11-Jun-2019	I	Unit-1:Introduction
2	12-Jun-2019		Types of operating systems
3	13-Jun-2019		operating systems concepts
4	14-Jun-2019		operating systems concepts
5	15-Jun-2019		operating systems services
6	18-Jun-2019		Tutorial
7	19-Jun-2019		operating systems services
8	20-Jun-2019		Introduction to System call
9	21-Jun-2019		Introduction to System call
10	22-Jun-2019		System call types
11	25-Jun-2019		Tutorial
12	26-Jun-2019		Unit test-1
13	27-Jun-2019	II	Unit-2 :Process Management – Process concept, The process
14	28-Jun-2019		Process State Diagram
15	29-Jun-2019		Process control block
16	2-Jul-2019		Tutorial
17	3-Jul-2019		Process Scheduling- Scheduling Queues, Schedulers
18	4-Jul-2019		Operations on Processes, Interprocess Communication
19	5-Jul-2019		Threading Issues
20	6-Jul-2019		Scheduling-Basic Concepts
21	9-Jul-2019		Tutorial
22	10-Jul-2019		Scheduling Criteria
23	11-Jul-2019		Scheduling Algorithms
24	12-Jul-2019	III	Unit-3:Memory Management: Swapping
25	16-Jul-2019		Tutorial
26	17-Jul-2019		Unit test-2
27	18-Jul-2019		Contiguous Memory Allocation
28	19-Jul-2019		Paging, structure of the Page Table
29	20-Jul-2019		Segmentation
30	23-Jul-2019		Tutorial
31	24-Jul-2019		Virtual Memory
32	25-Jul-2019		Demand Paging
33	26-Jul-2019		Page-Replacement Algorithms
34	27-Jul-2019		Thrashing
35	30-Jul-2019	Revision	Tutorial
36	31-Jul-2019		Revision

37	1-Aug-2019		Revision
38	2-Aug-2019		Revision
39	3-Aug-2019		Revision
40	6-Aug-2019	MID-I	I-MID- Revision
41	7-Aug-2019		I-MID- Revision
42	8-Aug-2019		I-MID- Revision
43	9-Aug-2019		I-MID- Revision
44	10-Aug-2019		I-MID- Revision
45	13-Aug-2019	IV	Unit-4:Concurrency: Process Synchronization
46	14-Aug-2019		The Critical- Section Problem, Synchronization Hardware
47	16-Aug-2019		Semaphores, Classic Problems of Synchronization
48	17-Aug-2019		Monitors
49	20-Aug-2019		Tutorial
50	21-Aug-2019		Synchronization examples
51	22-Aug-2019		**Principles of deadlock** – System Model
52	27-Aug-2019		Tutorial
53	28-Aug-2019		Deadlock Characterization,Deadlock Prevention
54	29-Aug-2019		Detection and Avoidance,Recovery form Deadlock
55	30-Aug-2019		Unit test-3
56	31-Aug-2019	V	Unit-5:File system Interface- the concept of a file, Access Methods
57	3-Sep-2019		Tutorial
58	4-Sep-2019		Directory structure, File system mounting
59	5-Sep-2019		file sharing, protection
60	6-Sep-2019		**File System implementation-** File system structure
61	7-Sep-2019		allocation methods, free-space management
62	11-Sep-2019		**Mass-storage structure** overview of Mass-storage structure
63	12-Sep-2019		Disk scheduling
64	13-Sep-2019		Device drivers
65	17-Sep-2019		Tutorial
66	18-Sep-2019		Unit test-4
67	19-Sep-2019	VI	Unit-6:Linux System: Components of LINUX
68	20-Sep-2019		Interprocess Communication
69	21-Sep-2019		Android Software Platform: Android Architecture
70	24-Sep-2019		Tutorial
71	25-Sep-2019		Interprocess Communication
72	26-Sep-2019		Android Software Platform: Android Architecture
73	27-Sep-2019		Operating System Services
74	28-Sep-2019		Android Runtime Application Development, Application Structure
75	27-Sep-2019		Application Process management
76	1-Oct-2019	Revision	Tutorial
77	3-Oct-2019		Revision
78	4-Oct-2019		Revision
79	5-Oct-2019		Revision

80	9-Oct-2019	MID-II	II-MID- Revision
81	10-Oct-2019		II-MID- Revision
82	11-Oct-2019		II-MID- Revision
83	12-Oct-2019		II-MID- Revision

TEXT BOOKS:

1. Operating System Concepts, Abraham Silberschatz, Peter Baer Galvin and Greg Gagne 9th Edition, John Wiley and Sons Inc., 2012.

2. Operating Systems – Internals and Design Principles, William Stallings, 7th Edition, Prentice Hall, 2011.

3. Operating Systems-S Halder, Alex A Aravind Pearson Education Second Edition 2016

REFERENCE BOOKS:

1. Modern Operating Systems, Andrew S. Tanenbaum, Second Edition, Addison Wesley, 2001.

2. Operating Systems: A Design-Oriented Approach, Charles Crowley, Tata Mc Graw Hill Education", 1996.

3. Operating Systems: A Concept-Based Approach, D M Dhamdhere, Second Edition, Tata Mc Graw-Hill Education, 2007.

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