

LESSON PLAN

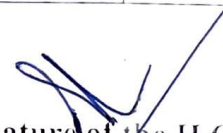
Name of the Institute:	C. V. Raman Polytechnic
Department:	Computer Science & Engineering
Semester/Division/Branch:	4 th Semester
Subject Name with code:	OPERATING SYSTEM (TH-1)
Total No. of Class (Required):	60
Faculty Name:	KSHYAMASAGAR MAHANTA

Class No.	<i>Brief description of the Topic/Chapter to be taught</i>	Remarks
1	INTRODUCTION. Objectives and Explain functions of operating system	
2	Evolution of Operating system	
3	Structure of operating system.	
4	PROCESS MANAGEMENT Process concept, process control, interacting processes	
5	inter process messages , Implementation issues of Processes	
6	Process scheduling, job scheduling	
7	Process scheduling, job scheduling	
8	Process scheduling, job scheduling	
9	Process scheduling, job scheduling	
10	Process synchronization, semaphore	
11	Principle of concurrency, types of scheduling	
12	Principle of concurrency, types of scheduling	
13	Principle of concurrency, types of scheduling	
14	MEMORY MANAGEMENT Memory allocation Techniques	
15	Contiguous memory allocation	
16	non contiguous memory allocation	

17	Swapping	
18	Paging	
19	Paging	
20	Segmentation	
21	Segmentation	
22	virtual memory using paging,	
23	Demand paging, page fault handling.	
24	DEVICE MANAGEMENT Techniques for Device Management	
25	Dedicated, shared and virtual.	
26	Device allocation considerations	
27	I/O traffic control	
28	I/O Schedule, I/O Device handlers	
29	SPOOLING	
30	Test	
31	Revision	
32	DEAD LOCKS	
33	Concept of deadlock	
34	System Model	
35	Dead Lock Detection	
36	Dead Lock Detection	
37	Resources allocation Graph	
38	Resources allocation Graph	
39	Methods of Deadlock handling	
40	Methods of Deadlock handling	
41	Methods of Deadlock handling	

42	Recovery & Prevention,	
43	Recovery & Prevention,	
44	Bankers Algorithm	
45	Bankers Algorithm	
46	Safety Algorithm	
47	FILE MANAGEMENT	
	File organization	
48	Directory & file structure	
49	Directory & file structure	
50	sharing of files	
51	File access methods	
52	File access methods	
53	file systems, reliability	
54	Allocation of disk space	
55	Allocation of disk space	
56	File protection, secondary storage management	
57	SYSTEM PROGRAMMING	
	Concept of system programming and show difference from Application Compiler	
58	Compiler , functions of compiler	
59	Compare compiler and interpreter	
60	Seven phases of compiler, brief description of each phase	


Signature of the Faculty


Signature of the H.O.D