

LESSON PLAN

Department :CSE		Semester:4 th ,NameofFaculty:
Subject: Operating System (OS)	No.ofdays/ week Class allotted: 4	Effective From Date:
		No.ofWeek-15
		Topic tobe Covered:
Week	ClassDay	Theory
1 st	1st	UNIT1:INTRODUCTION
	2nd	1.1ObjectivesandExplainfunctionsofoperatingsystem.
	3rd	1.2EvolutionofOperatingsystem
	4th	1.3Structureofoperating system.
2 nd	1st	1. DoubtClearing class 2. Quiztest 3. Assignment
	2nd	UNIT2:PROCESSMANAGEMENT
	3rd	Processconcept • processcontrol • interactingprocesses • interprocessmessages.
	4th	2.2ImplementationissuesofProcesses.
3 rd	1st	2.3Processsscheduling,jobscheduling.
	2nd	2.4Processssynchronization,semaphore.
	3rd	2.5Principle ofconcurrency,typesof scheduling.
	4th	1. DoubtClearing class 2. Quiztest 3. Assignment
4 th	1st	UNIT3:MEMORYMANAGEMENT
	2nd	3.1MemoryallocationTechniques
	3rd	3.1.1Contiguousmemoryallocation
	4th	3.1.2non-contiguousmemory allocation
5 th	1st	3.2Swapping
	2nd	3.3Paging
	3rd	3.1.1Segmentation
	4th	3.1.2Virtualmemoryusingpaging,
6 th	1st	3.4Demand paging,pagefaulthandling.
	2nd	1. DoubtClearing class 2. Quiztest 3. Assignment
	3rd	UNIT4:DEVICE MANAGEMENT
	4th	4.1TechniquesforDeviceManagement
7 th	1st	4.1.1Dedicated
	2nd	4.1.2sharedand
	3rd	4.1.3Virtual
	4th	4.2Deviceallocationconsiderations

8 th	1st	4.2.2I/Otraffic control
	2nd	4.2.3I/OSchedule
	3rd	4.2.3I/ODevice handlers.
	4th	4.3SPOOLING.
9 th	1st	1. DoubtClearing class 2. Quiztest 3. Assignment
	2nd	UNIT5:DEADLOCKS
	3rd	5.1Conceptofdeadlock.
	4th	5.2System Model
10 th	1st	5.3Dead LockDetection
	2nd	5.4ResourcesallocationGraph
	3rd	5.5MethodsofDeadlockhandling
	4th	5.6Recovery&Prevention
11 th	1st	5.6.1ExplainBankersAlgorithm&SafetyAlgorithm
	2nd	1. DoubtClearing class 2. Quiztest 3. Assignment
	3rd	UNIT 6:FILE MANAGEMENT
	4th	6.1Fileorganization
12 th	1st	6.1.1Directory&file structure
	2nd	6.1.2sharingoffiles
	3rd	6.2Fileaccessmethods,filesystems,reliability
	4th	6.3Allocationofdisk space
13 th	1st	6.4Fileprotection,secondarystoragemanagement.
	2nd	1. DoubtClearing class 2. Quiztest 3. Assignment
	3rd	UNIT7:SYSTEMPROGRAMMING
	4th	7.1Conceptofsystemprogrammingandshowdifferencefrom ApplicationComplier
14 th	1st	7.2Compiler,functionsofcompiler.
	2nd	7.3Comparecompilerand interpreter.
	3rd	7.4Seven phasesofcompiler,briefdescriptionofeachphase
	4th	1. DoubtClearing class 2. Quiztest 3. Assignment

Signature of Faculty

Lecture, CSE
ASIAN SCHOOL OF TECHNOLOGY,
KHORDHA