Ma	
Teaching Scheme	Operating Such
Lectures: 3 hrs/Week	Examine (i
Tutorials: 1 hr/Week	Class Taxtin Scheme
	Tench Test - 12 Marks
Credits: 4	Attendance
	Find S
Duc	End Semester Exam – 70 marks
rierequisite: - Basic Computer Com	
Course Objectives:	
2 Annual the services of an one of	
3 Comparing System pro	vides to its users and must
4 Descrit and methods for handling deadless	ognize the classic synchronized.
5 To und	y various memory management of problem.
6 Securit in the disk scheduling	management techniques
o. Security issues in system	
Detail	
UNIT I	
Introduct	
Multi Dra	
Operations Discussion Clustered Systems, Compu	iter System architecture: single Process
Design Call System, Operating system	a structure, Dual Mode Operating system
besign Goals, Layered Approach.	ervices, System calls, system program
UNIT II	piograms,
Process Management: Dros	
Inter-process communication of the Process sche	duling Cooperation
Switch, CPU scheduling criteria 2 i Scheduling: Sch	heduling Queras Sincesses, Threads,
UNIT III	s, Multiple-process
Process Synchronization	y antiple processor scheduling.
Semaphores, Classical multi	al-Section and I
Characterization: Neocost	itical regions Deterson's solution
Avoidance and Detection D	location Cra l
UNIT IV	Deadlock prevention.
Storage mono-	
Space Swapping D	loud-
allocation Paging, Fragmentation, Non Contiguous M	lardware, Logical and Physical Address
Basic concept, allocation algorithm	emory allocation, Contiguous Memory
demory Doma I algorithm, Relocation Protect	, Relocation, Protection. Segmentation
ause of Three Line paging, Page replacement algorith	tion. Segmentation with paging Virtual
wase of Thrashing, Working set Model.	uns, Allocation of frames, Thrashing
NIT V	
lle concept, access methods, and Diverter	
ructure, Disk scheduling methods Dist	entation: Linear List Hash Tell
lock. Interrupt, Direct Memory Access	t: Disk Formatting Boot Disk
IT VI	Block, Bad
curity & Case Study 5	
ess matrix Imple	s of pustoat
the passwords D	Sol protection, Domain of protection
Passwords, Program threats, System threats, The	Security proplem, Authentication, One
, incats, incats,	Monitoring, Encryption.
MAHead	
Iment of Computer A	
ulty of Computer Applications	
ertis University D	NISTONY /AS
Relievent (UP)	Dean Academid
	Faculty of Computer An

ı

I

I

1. Apply the fundamental design paradigms and technologies to mobile computing applications. Demonstrate the different wireless technologies such as CDMA GSM, and GPRS etc. 2. To design and considerations for deploying the wireless network infrastructure 3. To easily understand and design network architecture 4. Evaluate network protocols, routing algorithms, connectivity methods and characteristics 5. To understand and evaluate CODA File System and Adaptive Clustering for mobile computing 6. Department of Computer Applications Faculty of Computer Applications ertis University, Bareilly (UP) Dean Academics Faculty of Computer Applications Invertis University, Bareilly (UP) atty

I