Lesson Plan

Name of the Faculty	:	MS. Bharti(Ass. PROFESSOR)
Discipline	:	MCA
Semester	:	4TH
Subject	:	Computer Network (MCA-506)
Lesson Plan Duration	:	15 weeks (from January, 2018 to April, 2018)

Work Load (Lecture/Practical) per week (in hours):Lecture: 3, Practical: NIL

Week		Theory	Practical		
	Lecture Topic(including		Practical	Topic	
	Day	Assignment/Test)	Day		
1st	1 st	Introduction to Computer	1 st		
		Networks, ARPANET			
	2 nd	Internet, Private Networks	2 nd		
	3 rd	Network Topologies, Types			
		of Networks; Layering			
		architecture of networks			
	T1	Tutorialreview of			
		lectures			
2nd	4 th	OSI model, Functions of	3 rd		
		each layer			
	5 th	Services and Protocols of	4 th		
		each layer	_		
	6 th	Assignment on above			
		topics/ Test 1			
	T2	Tutorialproblem/review			
		of lectures			
3rd	7 th	Switching approaches,	5 th		
		Transmission media and			
		systems			
	8 th	multiplexing and signaling	6 th		
		techniques	_		
	Т3	Tutorialproblem/			
		review of lectures			
	9 th	Error detection and			
		correction			
4th	10 th	ISDN and BISDN., Socket	7 th		
		System calls			
	11 th	Packet Network topology	8 th		
	12 th	Assignment on above			
		topics/ Test 2			

	T4	Tutorialproblem/review		
		of lectures		
5th	13 th	Structure of Switch / Router,	9 th	
	14 th	virtual circuit packet	10 th	
		switching		
	15 th	X.25, Routing Algorithms		
	T5	Tutorialproblem/review		
		of lectures		
6th	16 th	ATM Networks, FIFO,	11 th	
		Priority Queues		
	17 th	Fair Queuing, Congestion	12 th	
		control techniques		
	18 th	Assignment on above		
		topics/ Test 3		
7th	19 th	Peer-To-Peer Protocols:	13 th	
		Protocols		
	20 th	Service Models and end-to-	14 th	
		end requirements	-	
	21 st	ARQ, Sliding window		
	T6	RTP, HDLC,		
8th	22 nd	Tutorialproblem/review	15 th	
		of lectures		
	23 rd	PPP protocols	16 th	
	24 th	Assignment on above		
		topics/ Test 4		
	T7	Tutorialproblem/review		
		of lectures		
9th	25 th	Statistical multiplexing.	17 th	
	26 th	Multiple access	18 th	
		communication	_	
	27 th	Random Access – ALOHA,		
		Slotted ALOHA		
	T8	Tutorialproblem/review		
	th	of lectures	th	
10th	28 th	CSMA, CSMA/CD	19 th	
	29 ^m	Channelization: FDMA,	20 th	
	aath	IDMA	-	
	30	Assignment on above		
		topics/lest5		
	19	Tutorialproblem/review		
4411	0.1. st	of lectures	015	
11th	31°	CDMA, Channelization in	21*	
	aand		aand	
	32	LAN Standards U 802.11,	22 -	
		Introduction History of		
		TCP/IPconferencing		
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	33 rd	Architecture ,Layers of TCP/IP		
	T10	Tutorialproblem/review of lectures		
12th	34 th	Protocols, Internet Protocol	23 rd	
	35 th	Transmission Control Protocol , User Datagram Protocol	24 th	
	36 th	IP Addressing, IP address classes, IP packet, addressing		
	T11	Tutorialproblem/review of lectures		
13th	37 th	Internet Routing Protocols, Multicast routing	25 th	
	38 th	Introduction of WANs, Routing, Congestion Control	26 th	
	39 th	Assignment on above topics/ Test6	-	
	T12	Tutorialproblem/ review of lectures		
14th	40 th	WAN Technologies, Distributed Queue Dual Bus (DQDB)	27 th	
	41 st	Synchronous Digital Hierarchy (SDH)/ Synchronous Optical Network (SONET)	28 th	
	42 nd	Asynchronous Transfer Mode (ATM)]	
15th	43 rd	Frame Relay, Wireless Links.	29 th	
	44 th	Problem session	30 th	
	45 th	Problem session]	

IMPORTANT DATES (KEY DATES)

- * 14 to 16 February, 2018 (Wednesday -Friday)------ SESSIONAL I
- *4 6 April, 2018 (Wednesday Friday) ------ SESSIONAL II
- *27 April, 2018 (Friday) ------ LAST DAY OF SESSION
- *1 May to 8 May, 2018 (Tuesday-Tuesday)------ PRACTICAL EXAMINATION

Start of End semester examinations (Even Semester)-----11 May, 2018 (Friday) to 10 June, 2018 (Sunday)

(Ms.Bharti)

Ass. PROFESSOR