

SREE VIDYANIKETHAN ENGINEERING COLLEGE(AUTONOMOUS) SREE SAINATH NAGAR, A. RANGAMPET-517 102

Department of Computer Science & Engineering

Lesson Plan cum Diary 2015-16

Name of the faculty Member Class& Semester Branch		:M. Prameela :I M.Tech I Semester : M.Tech (CNIS)					
S. No.	Торіс	No. of periods required	Date(s) covered	No. of periods used	Book(s) followed	Topics for self study	
	Unit-I:Introduction, F	Probability,	Statistics,	and Traffi	c Theories	i	
1.	History, Characteristics and Fundamentals of cellular Systems,Cellular System Infrastructure.	1			T1	Stochastic processes	
2.	Satellite Systems, Network Protocols.	1			T1		
3.	Sensor Networks, Wireless LANs, MANs and PANs.	1			Τ1		
4.	Introduction, Basic Probability	2			Τ1		
5.	Statistics Theories, Traffic Theory	3			T1		
6.	Basic Queuing Systems	3			T1		
	Total no of periods required:	11	Tot	al no of pe	riods used:		
	Unit-II: Mobile Radio Pr	opagation,	Channel C	oding and	Error Cont	rol	
7.	Introduction, Types of Radio Waves,Propagation Mechanisms, Free Space Propagation, Land Propagation.	1			T1	Advanced Error contro Techniques	
8.	Path Loss, Slow Fading, Fast Fading.	1			T1		
9.	Doppler Effect, Delay Spread, Intersymbol Interference.	2			Τ1		
10.	Coherence Bandwidth, Cochannel Interference.	1			T1		
11.	Introduction, Liner Block Codes.	1			T1		
12.	Cyclic Codes, Cyclic Redundancy Check.	1			T1		
13.	Convolutional Codes	1			T1		
14.	Interleaver, Turbo Codes.	1			T1		

15.	ARQ Techniques.	1			T1	
	Total no of periods required:	10	Tota	al no of per	iods used:	
Unit-	III: Multiple Radio Access, Mutip	le Division	Techniques f	or Traffic Ch	nannels, Net	work Protocols
16.	Introduction, Multiple Radio Access Protocols	1			T1	Channel Allocation
17.	Multiple Radio Access Protocols	1			T1	
18.	Contention Based Protocols	2			T1	
19.	Introduction	1			T1	
20.	Concepts and Models for Multiple Divisions	2			T1	
21.	Modulation Techniques	2			Τ1	
22.	Introduction, TCP/IP Protocol	1			T1	
23.	TCP Over Wireless	1			T1	
24.	Internet Protocol Version (IPV6).	1			T1	
	Total no of periods required:	12	Total no of	periods us	ed:	•
	UNIT IV: Ad H	oc Networ	ks and Sens	sor Networ	ks	
25.	Introduction, Characteristics of MANETs, Applications	1			T1	Data Transmission in adhoc and
26.	Table Driven Routing Protocols	1			T1	sensor Networks
27.	Source Initiated Routing Protocols	1			T1	
28.	Hybrid Protocols	1			T1	
29.	Vehicular Area Network, Security Issues in Mobile Ad Hoc Networks	1			T1	-
30.	Network Simulators	1			T1	
31.	Introduction, Fixed Wireless Sensor Networks	1			T1	
32.	Wireless Sensor Networks, Sensor Deployment	1			T1	
33.	Network Characteristics	1			T1	
34.	Design Issues in Sensor Networks	1			T1	
35.	Secured Communication	1			T1	
	Total no of periods required:	11		al no of per		
	UNIT V: Wii		NS, MANS, a	and PANs		
36	Introduction, Wireless Local Area Networks (WLANs)	1			T1	Femto cell Network,
37	Enhancement for IEEE 802.11 WLANs	2			T1	ultra wide band technology
38	Wireless Metropolitan Area Networks (WMANs) using WiMAX and Mesh Networks	2			T1	

39	Mesh Networks	2			T1	
40	Wireless Personal Area Networks (WPANs)	2			T1	
41	Zigbee	2			T1	
	Total no of periods required:	11	Total no of periods used:			
	Grand total of periods required:	55	Grand total of periods used:			

TEXT BOOKS:

T1: Dharma PrakashAgarwal, Qing-AnZeng, "Introduction to Wireless &

Mobile Systems", CENGAGE Learning Third Edition, 2011.

Reference Books:

R1: Theodore S. Rappaport, "Wireless Communications-Principles and

Practice", Second Edition, PHI, 2002.

R2: William Stallings, "*Wireless communications and Networks*", Pearson education, 2005.

R3: C. Siva Rama Murthy, B.S. Manoj, "Ad Hoc Wireless Networks -

Architectures and Protocols", Pearson Education Second Edition, 2004.

Signature of the Faculty Member

Signature of the HOD