Written by Administrate Saturday, 07 November	or er 2009 06:19 -			
Subject Code				:
		1 05	1	
IA Marks		: 25		
No. of Lecture Hrs/Week				: 04
Exam Hours		: 03		
Total no. of Lectu	ıro Ure			: 52
Total 110. 01 Lecti	ле піз.			. 32
Exam Marks	T	: 100	]	
	1	1. 100	J	

Written by Administrator Saturday, 07 November 2009 06:19 -PART - A Unit - 1 Introduction to wireless telecommunication systems and Networks, History and Evolution Different generations of wireless cellular networks 1G, 2g,3G and 4G networks. 6 Hours Unit - 2 Common Cellular System components, Common cellular network components, Hardware and software, views of cellular networks, 3G cellular systems components, Cellular component identification Call establishment. 6 Hours Unit - 3

Wireless network architecture and operation, Cellular concept Cell fundamentals, Capacity expansion techniques, Cellular backbone networks, Mobility management, Radio resources

and power management Wireless network security

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6 Hours
Unit - 4
GSM and TDMA techniques, GSM system overview, GSM Network and system Architecture, GSM channel concepts, GSM identifiers
6 Hours
PART - B
Unit - 5
GSM system operation, Traffic cases, Cal handoff, Roaming, GSM protocol architecture. TDMA systems

Unit - 8

Written by Administrator Saturday, 07 November 2009 06:19 -6 Hours Unit - 6 CDMA technology, CDMA overview, CDMA channel concept CDMA operations. 8 Hours Unit - 7 Wireless Modulation techniques and Hardware, Characteristics of air interface, Path loss models, wireless coding techniques, Digital modulation techniques, OFDM, UWB radio techniques, Diversity techniques, Typical GSM Hardware. 6 Hours

Cambridge 2005.

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Introduction to wireless LAN 802.11X technologies, Evolution of Wireless LAN Introduction to 802.15X technologies in PAN Application and architecture Bluetooth Introduction to Broadband wireless MAN, 802.16X technologies.

wireless MAN, 802.16X technologies.
8 Hours
Text Book:
1. Wireless Telecom Systems and networks, Mullet: Thomson Learning 2006.
Reference Books:
1. <b>Mobile Cellular Telecommunication</b> , Lee W.C.Y, MGH, 2002.
2. <b>Wireless communication</b> - D P Agrawal: 2 <sup>nd</sup> Edition Thomson learning 2007.
<ol> <li>Fundamentals of Wireless Communication, David Tse, Pramod Viswanath,</li> </ol>

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