AMIRAJ COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

2170710 MCWC

TERM DATE: 20 JUNE -2016 TO 21 OCTOBER- 2016

HOURS	DETAILS OF TOPIC TO BE COVERED	PLANNED DATES	ACTUAL DATES
I	**Introduction, Transmission Fundamentals-**		
1	Signals for Conveying Information	21/06/2016	
2	Analog and Digital Data Transmission		
3	Channel Capacity,TransmissionMedia,Multiplexing		
	Communication Networks-		
4	LANs,MANs,andWANs		
5	SwitchingTechniques	TO	
6	CircuitSwitching,Packet Switching		
	Protocols and the TCPIIPSuite-		
7	The Need for a Protocol Architecture		
8	TheTCP/IP Protocol Architecture		
9	The OSI Model		
10	Internetworking	7/7/2016	
II	**Cellular Wireless Networks**		
11	Principles of Cellular Networks	12/7/2016	
12	First-Generation Analog		
13	Second-Generation TDMA ,Second-Generation CDMA		
14	Third-Generation Systems		
	Antennas and Propagation-		
15	Antennas,Propagation Modes		
16	Line-of-Sight Transmission		
17	Fading in the Mobile Environment		
	Modulation Techniques		
18	Signal Encoding Criteria		
19	Digital Data- Analog Signals	TO	
20	Analog Data-Analog Signals		
21	Analog Data-Digital Signals		
	Spread Spectrum		
22	The Concept of Spread Spectrum		
23	Frequency Hopping Spread Spectrum		
24	Direct Sequence Spread Spectrum,		
25	Code Division Multiple Access		
	Coding and Error Control		
26	Error Detection,Block Error Correction Codes		
27	Convolutional Codes		
28	Automatic Repeat Request	5/8/2016	
III	**Multiple access in Wireless System**		
29	Multiple access scheme	9/8/2016	
30	frequency division multiple access		
31	Time division multiple access		
32	code division multiple access		
33	space division multiple access		
34	packet radio access		
35	multiple access with collision avoidance		
	Global system for mobile communication		
36	GSM architecture,GSM entities		
37	call routing in GSM,PLMN interface		
38	GSM addresses and identifiers		
39	network aspects in GSM	TO	
40	GSM frequency allocation		
41	authentication and security		
	General packet radio service(GPRS)		
42	GPRS and packet data network		
43	GPRS network architecture,GPRS network operation,		
44	data services in GPRS,Applications of GPRS,		
45	Billing and charging in GPRS		
	Wireless System Operations and standards		
46	Cordless Systems,Wireless Local Loop,		
47	WiMAX and IEEE 802.16 Broadband Wireless Access Standards		
48	Mobile IP and Wireless Application. Protocol	8/9/2016	
IV	**Wi-Fi and the IEEE 802.11 Wireless LAN Standard**		
49	IEEE 802 architecture	15/9/2016	
50	IEEE 802.11 architecture and services		
51	IEEE 802.11 Medium access control	TO	
52	IEEE 802.11 physical layer		
53	Wi-Fi protected access.	23/9/2016	
V	**Bluetooth**		
54	Radio specification,baseband specification	27/9/2016	
55	link manager specification	TO	
56	logical link control and adaption protocol.	30/9/2016	
VI	**Android**		
57	Android APIs,Android Architecture,	4/10/2016	
58	Application Framework,The Application components		
59	The manifest file,downloading and installing Android,		
60	Exploring the Development Environment,		
61	Developing and Executing the first Android application		
62	The LinearLayout,The RelativeLayout Layout, The ScrollView Layout, The TableLayout Layout, The FrameLayout ,Using the TextView,	TO	
63	EditText View, Button View,RadioButton, CheckBox,		
64	The options Menu, The Context Menu.	14/10/2016	