



Credit Based Grading Scheme(Revised - 2012) - University of Mumbai CBGS-2012(R)



TCET/FRM/IP-02/10

Revision: B

#### Semester Plan (Practical / Tutorials / Assignment)

irse: <b>B.E IT</b>
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Subject: Wireless Technology Class: B.E IT-A

Batch size: 20 Students

Batches: A3,

Laboratory faculty in charge:Ms. Purvi Sankhe

Lab. Assistant /Attendant :Vaibhav Chavan (Lab Attendant 213)

Note: Experiment planned as per University Curriculum

### **Basic Experiments:**

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks
1	Implementation of DSSS/FHSS in spread spectrum system.	27/07/17		
2	Frequency reuse using GSM.	03/08/17		
3	Generation of Pseudo Random sequences	10/08/17		
4	Authentication and privacy in GSM using A3/A5/A8 algorithm.	24/08/17		

### **Design/ Development Experiments:**

5	Implementation of CDMA.	24/08/17						
6	To design the idea of frequency reuse in CDMA	31/08/17						
7	To design a network with 10 nodes and calculate the QoS parameters using NS-2	07/09/17						
8	To design the concept of RTS/CTS with 4 users and resolve the MACA issues	14/09/17						
Issued	By: MR	Approved By: Principal						



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9	To study the design requirements of 802.15.1 protocol architecture & its de				
10		IEEE sign <b>21/09/17</b>			
0	Study the design issues on "Econor wireless communication standards"	5/10/17			
Group L	Learning Activity:				
11	<ol> <li>Case Study on:</li> <li>Case study on various multip access.</li> <li>Compare the various wireless generations 1G, 2G, 3G, 4G with respect to their applicat limitations, spectrum usage, rates, channel capacity etc.</li> </ol>	08/10/17			
12	<b>Project:</b> 1. To design and discuss the security of 4G wireless network system in cor its data rates, number of users, hardw enhancement w.r.t. 3G etc.	12/10/17			
13	IEEE Transaction/Journal: Hardware Implementation of an OFD Transceiver for 802.11n systems, International Journal of Scientific & Engineering Research, vol.4, no.6, Ju 2013, ISSN 2229-5518.	DM In.	12/10/17		
Major P choice ir The area 1.Resea	Projects Objective: To get hands on e n the following areas. as are : arch 2. Core 3. Multidisciplin	experien ary	4. Applicatio	projects with	n respect to student
		Class	Group Size/	Project	Deference
S.No	Project Title		Project Hours	Туре	Reference
S.No	Project Title To design and implement the security aspects for IEEE 802.11g standards using index policy method	BE	Project Hours 3-4	<b>Type</b> Major	Technology Based Learning
S.No	Project Title To design and implement the security aspects for IEEE 802.11g standards using index policy method Design & develop the performance evaluation of WLAN for 100 nodes	BE	Project Hours 3-4 3-4	<b>Type</b> Major Major	Technology Based Learning Technology Based Learning



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CBGS-2012(R)											
4	Enhanced 3G/4G netv	security algorit works.	lgorithms for			3-4		Major	Tech Base		nology d Learning
	Planned	Completed		Plar	nned	Со	ompleted		Planned		Completed
No. of Prac	Basic Exp: 04 Design Base Exp: 06 Group Learning : 03 Bridge Course: 01 Project: 04		No. of Assig nme nts	03				No. of Tutorial	01) Pro Stu s)	(Low ofile udent	
DOSL	NE:				DOSL	.E (	engaged i	n some oth	er d	ates):	
<ol> <li>The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.</li> <li>Learning objective and outcome shall be clearly stated with each of experiments/ tutorials/ assignments and are required to be mapped at the end of the semester.</li> <li>Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.</li> <li>(Ms. Yele Vijaykumar P.)</li> </ol>											
Name	Name & Signature of Faculty Signatu			natur	e of HC	D	D Signature of Principal / Dean Aca				an Academic
Date:			Dat	ie:			Date	:			