

Zagdu Singh Charitable "Trust's (Regd.)

TCET/FRM/IP-02/10

THAKUR COLLEGE OF **ENGINEERING & TECHNOLOGY**

(Approved by AICTE, Govt. of Maharashtra & Affiliated to University of Mumbai*) (Accredited Programmes by National Board of Accreditation, New Delhi**)

A - Block, Thakur Educational Campus, Shyamnarayan Thakur Marg, Thakur Village, Kandivali (East), Mumbai - 400 101.

Tel.: 6730 8000 / 8106 / 8107
Fax : 2846 1890
Email : tee'@hhakureducation.org
Website : www.tcetmumbai.in • www.thakureducation.org



Revision: B

Class: B.E EXTC- A & B Batch size: 20 Students

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Semester Plan (Practical / Tutorials / Assignment)

Semester: VII Course: B.E EXTC-A & B Batches: A1-A2, A3-A4, B1-B2, B3-B4

Subject: Advanced Communication Engineering Laboratory-I

(ETL-702)

Laboratory faculty in charge: Dr. Sangeeta Mishra Lab Assistant: Ms. Jinal Rathod

Note: Experiment planned as per University Curriculum

Basic Experiments:

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Batches	Planned Date	Completion Date	Remarks
		A1-A2	17/07/17		
1.	Introduction to Matlab	A3-A4	18/07/17		
l "	Introduction to Matiao	B1-B2	19/07/17		
		B3-B4	20/07/17		
		A1-A2	24/07/17		_
2.	Study the relation between	A3-A4	26/07/17		
	cluster size N and capacity C.	B1-B2	26/07/17		
		B3-B4	27/07/17		
	Study the effect of cluster size n	A1-A2	31/07/17		
3.	and no. of co channel interfering	A3-A4	02/08/17		
3.	cells i0 on signal to interference	B1-B2	02/08/17		
	ratio.	B3-B4	03/08/17		1
		A1-A2	07/08/17		
l <u>.</u>	Setup for basic communication	I A3-A4 I 03/00/17	09/08/17		1
4.	between mobile station and base	B1-B2	09/08/17		
	station using OMNET++.	B3-B4	10/08/17		
		A1-A2	14/08/17		
_	Setup for GSM handover	A3-A4	16/08/17		1
5.	procedure using OMNET++.	B1-B2	16/07/17		_
		B3-B4	24/08/17		
		A1-A2	04/09/17		
	Generation of PN sequence for	A3-A4	30/08/17		1
6.	the given polynomial.	B1-B2	30/08/17		1
		B3-B4	31/08/17		1

Design/ Development Experiments:

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		Design of communication	A1-A2	11/09/17	
	7.	system using Simulink to study	A3-A4	06/09/17	
	7.	, ,	B1-B2	06/09/17	
		the effect of Rayleigh fading.	B3-B4	07/09/17	
		Design of communication	A1-A2	11/09/17	
	0		A3-A4	06/09/17	
	8.	system using Simulink to study	B1-B2	06/09/17	
		the effect of Rician fading.	B3-B4	07/09/17	1
		Design of network to	A1-A2	18/09/17	
	9.	Design of network to	A3-A4	13/09/17	
	9.	demonstrate handover in UMTS	B1-B2	13/09/17	
		using OPNET.	B3-B4	14/09/17]
-			D3-D4	14/09/17	

Group Learning Activity:

		A1-A2	29/09/17	
	T (11 (2CDD 11D 4TG)	A3-A4	20/09/17	
	Tutorial 1 (3GPP and UMTS)	B1-B2	20/09/17	
		B3-B4	21/09/17	
		A1-A2	29/09/17	
10.	Tutorial 2 (LTE, MIMO and SDR)	A3-A4	20/09/17	
10.		B1-B2	20/09/17	
		B3-B4	21/09/17	
	D dd d	A1-A2	1610/17	
	Presentations on the topics related to emerging technologies			
	of 3G and 4G	B1-B2	04/09/17	
		B3-B4	05/09/17	

Mini /Minor Projects Objective: To get hands on experience to execute projects with respect to student choice in the following areas. (30 Hrs / Semester / Student). (Total 120 Hrs)

The areas are:

1. Research 2. Core 3. Interdisciplinary 4. Application

Mini/ Major project: As per University Scheme

S.N o	Project Title/Group Size	Class	Type / Project Hours	Modes of Learning	Reference
1.	Enhancing Performance Of Optical Fibers	B.E EXTC-A	Research	Project Based Learning	http://www.mycollegeproje ct.com/Abstracts/SEM- 53.%20Talking%20energ y%20meter.pdf http://ijiet.com/wp- content/uploads/2014/05/2 9.pdf
2.	Haptic based finger print recognition	B.E EXTC-A	Application	Project Based Learning	https://www.cogenda.com// http://ieeexplore.ieee.org/ xpl/Recentlssue.jsp?reloadetrue&punumber=43

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3	LI-FI: Light F in Communi		B.E E	EXTC-A	Application	Project Based Learning	http://publication mers.se/record 26466/local 22 http://www.jos. en/ch/reader/c spx?file_no=10 http://www.myo ct.com/Abstract 53.%20Talking y%20meter.pd http://ijiet.com/w	ds/fulltext/2 26466.pdf ac.cn/bdtxb reate pdf.a 2020101 collegeproje ets/SEM- 19%20energ f
	Planned	Co mpl		Planne	Completed		9.pdf Planned	Completed
		ete d		d	·			·
No. of Prac	Basic Exp: 06 Design Base Exp: 03 Group Learning: 3 Bridge Course: 01 Major Project: 03		No. of Assig nme nts	02		No. of Tutorial	NIL	NIL
DOSL	NE:				DOSLE (er	ngaged in some	other dates):	

Group activities are required to be added with the practical related to course to enhance the learning activity of the student in the course. Group activity includes: Group presentation, new experiment design, mini projects etc.

Note:

note:

- 1. The practical plan date and completion date shall be in compliance. For any non-compliance reason(s) required to be stated in remark column.
- 2. 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.
- 3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.

Sd/- Sd/- Sd/- (Ms. Sukruti Kaulgud)
(Ms. Megha Gupta) (Dr. Vinitkumar Dongre) (Dr. R. R. Sedamkar)

Name & Signature of Faculty

Signature of HOD

Signature of Principal / Dean Academic

Date: 14/07/2017 Date: 19/07/2017 Date: 20/07/2017

Issued By: MR Approved By: Prin
