Laxdu Singh Charitable Trust's (Regd.)
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.
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ISO 9001 : 2008 Certified
*Permanent Affiliated UG Programmes :• Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (w.e.f.: A.Y. 2015-16 onwards)
**1st time Accredited UG Programmes :• Computer Engineering • Electronics & Telecommunication Engineering • Information Technology
**2nd time Accredited UG Programmes :• Computer Engineering • Electronics & Telecommunication Engineering • Information Technology • Electronics Engineering (3 years w.e.f.: 01-07-2016)

TCET/FRM/IP-02/10 Revision: B

Semester Plan
(Practical / Tutorials / Assignment)

Semester: **V** Course: **T.E EXTC-A** Batches: **A1/A2/A3/A4**

Subject: Communication Engineering Lab-II (ETL-503) Class: **T.E EXTC- A** Batch size: 42 Students

Laboratory faculty in charge: Mr.Nikhil Tiwari Teaching Assistant : Ms. Kinjal Joshi

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
1.	To study OP-AMP as an Instrumentation Amplifier	A1- A2	25/7/17		
		A3- A4	24/7/17		
2.	To study and simulate Dipole antenna in NEC-2 Software	A1- A2	1/8/17		
		A3- A4	31/7/17		
3.	To study OP-AMP as Schmitt Trigger	A1- A2	8/8/17		
		A3- A4	7/8/17		
4.	To study and simulate antenna Array in NEC-2 Software	A1- A2	12/9/17		
		A3- A4	14/8/17		
5	To study OP-AMP as Precision Rectifier	A1- A2	19/9/17		
		A3- A4	4/9/17		
6.	To study and simulate Low pass filter in RFSIM-99 Software	A1- A2	26/9/17		
		A3- A4	11/9/17		
7.	To study Asynchronous counter as MOD-2 and MOD-10 Counter	A1- A2	19/9/17		
		A3- A4	18/9/17		
Design/ Development Experiments:					
8.	Design and simulate High pass filter in RFSIM-99 Software	A1- A2	26/9/17		
		A3- A4	11/9/17		
9.	Design Astable/ Monostable Multivibrator using IC-555	A1- A2	3/10/17		
		A3- A4	25/9/17		
Group Learning Activity:					
10	Case study: 1. Selection of best antenna for VHF TV reception.	A1	3/10/17		
		A3	25/9/17		
	2 .Application of IC 741 and 555	A2	3/10/17		
		A4	25/9/17		

Issued By: MR	Approved By: Principal

1. **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.No	**Project Title/Group Size**	**Class**	**Type / Project Hours**	**Modes of Learning**	**Reference**
1.	RF power and photo diode energy harvesting based battery free cellular phone	B.E EXTC-B	Application	Project Based Learning	http://dl.acm.org/citation.cfm?id=3090090&dl=ACM&coll=DL&CFID=787341587&CFTOKEN=67734055
2	MEFET using T-CAD	B.E EXTC-A	Application	Project Based Learning	https://scholar.google.co.in/scholar?q=MOSFET+using+TCAD&hl=en&as_sdt=0&as_vis=1&oi=scholart&sa=X&ved=0ahUKEwi--7fc9JTVAhUMoJQKHSGyCNcQgQMIIjAA

	Planned	Completed		Planned	Completed		Planned	Completed
No. of Practical	**Basic Exp:** 07 **Design Base Exp**: 02 **Group Learning:** 2 **Bridge Course:** 01 **Major Project:** 02		No. of Assignments	02		No. of Tutorial	00	--

DOSLNE:	DOSLE (engaged 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:

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.

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(Ms. Anvita Birje) (Mr.Nikhil Tiwari)	**(Dr. Vinitkumar Dongre)**	**(Dr. R. R. Sedamkar)**
Name & Signature of Faculty	Signature of HOD	Signature of Principal / Dean Academic

Issued By: MR	Approved By: Principal

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Date: 19 /07/2017	Date:19 /07/2017	Date:19 /07/2017