



Laxda 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**)

*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)

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

Tel : 6730 8000 / 8106 / 8107

Fax : 2846 1890

Email : tcet@thakureducation.org

Website : www.tcetmumbai.in • www.thakureducation.org



ISO 9001 : 2008 Certified

TCET/FRM/IP-08/10

Revision: B

Semester Plan

(Practical / Tutorials / Assignment)

Semester: III

Course: IT

Batches: B1,B3,A4

Subject: **Principles Of Communication**

Class: **S.E(IT) B**

Batch Size: **20**

Laboratory faculty in charge: Mr Vijay Yele

Lab. Assistant /Attendant: Mr Vaibhav Chavan

Sr. No.	TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)	Planned Date	Completion Date	Remarks	
		A4 B3 B1	A4 B3 B1		
1	Demonstration of Amplitude modulation.	25/7/2017 26/7/2017 27/7/2017			
2	Demonstration of Frequency modulation.	1/8/2017 2/8/2017 3/8/2017			
3	Study of AM/ FM receiver.	8/8/2017 9/8/2017 10/8/2017			
4	Demonstration of Signal sampling and reconstruction.	19/8/2017 16/8/2017 24/8/2017			
5	Study of PWM generation and detection.	19/8/2017 16/8/2017 24/8/2017			
6	Study of PCM coding and decoding.	5/9/2017 30/8/2017 31/8/2017			
7	Study of Delta modulation and demodulation	12/9/2017 6/9/2017 7/9/2017			
Design/ Development Experiments:					
8	Demonstration of TDM/ FDM.	16/9/2017 13/9/2017 14/9/2017			



Laxmi 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**)

*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)

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

Tel.: 6730 8000 / 8106 / 8107

Fax : 2846 1890

Email : tcet@thakureducation.org

Website : www.tcetmumbai.in • www.thakureducation.org



9	Demonstration of BPSK, BFSK, BASK	19/9/2017 20/9/2017 21/9/2017			
10	Study of QPSK	19/9/2017 20/9/2017 21/9/2017			
Group Learning Activity:					
11	Study of Inter symbol Interference and Line coding.	26/9/2017 4/10/2017 5/10/2017			
12	Study of different types of Propagation.	3/10/2017 7/10/2017 7/10/2017			
<p>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)</p> <p>The areas are :</p> <p>1. Research 2. Core 3. Interdisciplinary 4. Application</p> <p>Minor project : As per University Scheme</p>					
Sr. No	Project Title/Group Size	Class	Group Size/ Project Hours	Project Type	Reference
1.	Development of simulation model for analog modulation techniques (AM/FM) using MATLAB	SE	4-5	Mini	Technology Based Learning
	Development of simulation model for shift keying techniques (ASK,PSK,FSK,QPSK) using MATLAB	SE	4-5		
	Development of simulation model for different line coding techniques using MATLAB	SE	4-5		



Laxda 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**)

*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)

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

Tel.: 6730 8000 / 8106 / 8107

Fax : 2846 1890

Email : tcet@thakureducation.org

Website : www.tcetmumbai.in • www.thakureducation.org



No. of Prac. c.	Planned	Completed	No. of Assig n.	Planned	Completed	No. of Tutoria l	Planned	Completed	
	Basic : 07 Design Base 03 Group Learning: 02 Bridge Course: 02 Mini Project: 02			03			12		
DOSLNE:				DOSLE (engaged in some other dates):					
<p>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.</p> <p>Note:</p> <p>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.</p> <p>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.</p> <p>3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.</p>									
MR Vikas Kaul Name & Signature of Faculty			Dr. Rajesh Bansode Signature of HOD			Dr. R. R. Sedamkar Signature of Principal/Dean (Academics)			
Date:			Date:			Date:			