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

Semester Plan
(Practical / Tutorials / Assignment)

Semester: **VII**   Course: B**.E EXTC**   Batches: **B.E A1/A2 A3/A4**

Subject: Image & Video Processing   Class: **B.E EXTC- A**   Batch size: 20 Students

Laboratory faculty in charge: **Mr. Manoj Chavan** . Teaching Assistant : **Mr. Chandresh Yadav**

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 implement changes in spatial & Tonal Resolution	A1	27/7/17		
		A2	27/7/17		
		A3	28/7/17		
		A4	28/7/17		
2.	To perform Image Enhancement using Point Processing Operations	A1	3/8/17		
		A2	3/8/17		
		A3	4/8/17		
		A4	4/8/17		
3.	To perform Histogram Equalization on Image	A1	10/8/17		
		A2	10/8/17		
		A3	11/8/17		
		A4	11/8/17		
4.	To perform LPF & HPF in frequency domain	A1	24/8/17		
		A2	24/8/17		
		A3	18/8/17		
		A4	18/8/17		
5	To perform LPF & HPF in Spatial domain	A1	31/8/17		
		A2	31/8/17		
		A3	1/9/17		
		A4	1/9/17		
6.	To perform Morphological operations on an Image	A1	7/9/17		
		A2	7/9/17		
		A3	8/9/17		
		A4	8/9/17		

Issued By: MR	Approved By: Principal

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

THAKUR TRUSTS ®

Lagdu Singh Charitable Trust's (Regd.)

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

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*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)

Design Experiments:

7.	To perform restoration on a distorted image	A1	14/9/17		
		A2	14/9/17		
		A3	15/9/17		
		A4	15/9/17		
8.	To perform Edge Detection using Thresholding	A1	21/9/17		
		A2	21/9/17		
		A3	22/9/17		
		A4	22/9/17		
9.	To perform segmentation on a video clip	A1	21/9/17		
		A2	21/9/17		
		A3	22/9/17		
		A4	22/9/17		

Group Learning Activity:

10	Mini Project: Colour Image Enhancement by Histogram Processing	A1	5/10/17		
		A2	5/10/17		
		A3	6/10/17		
		A4	6/10/17		
11	Case Study	As per slot given	As per slot given		

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.	Image De-Noising	B.E EXTC	Application	Project Based Learning	http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm
2.	Currency Recognition System using Image Processing	B.E EXTC	Application	Project Based Learning	http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm

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3.	Currency Counting Machine with Fake Note Detection		B.E EXTC	Application		Project Based Learning		http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm	
	Planned	Completed		Planned	Completed			Planned	Completed
No. of Prac	**Basic Exp:** 06 **Design Base Exp**: 03 **Group Learning** : 2 **Major Project:** 03 **Mini Project:** 01		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.

Sd/-   **Sd/-**   **Sd/-**
 (Mr.Deepak S. Shete)   **(Dr. Vinitkumar Dongre)**   **(Dr. R. R. Sedamkar)**
Name & Signature of Faculty   Signature of HOD   Signature of Principal / Dean Academic

Date: 10/07/2017   Date: 10/07/2017   Date: 10/07/2017