

<b>TCET/FRM/IP-02/10</b>	<b>Semester Plan (Practical)</b>	<b>Revision: B</b>			
<b>Semester: VII</b>	<b>Course: B.E EXTC</b>	<b>Batches: B.E B1/B2</b>			
<b>Subject: Image &amp; Video Processing      Class: B.E EXTC- A      Batch size: 20 Students</b>					
<b>Laboratory faculty in charge: Mr. Manoj S. Chavan      Teaching Assistant : Mr. Chandresh Yadav</b>					
<b>Note: Experiment planned as per University Curriculum</b>					
<b>Basic Experiments:</b>					
<b>Sr. No.</b>	<b>TITLES Experiments / Tutorials / Assignment (Planning with use of Technology)</b>	<b>Batches</b>	<b>Planned Date</b>	<b>Completion Date</b>	<b>Remarks</b>
1.	To implement changes in spatial & Tonal Resolution	B1	25/7/17		
		B2	25/7/17		
2.	To perform Image Enhancement using Point Processing Operations	B1	1/8/17		
		B2	1/8/17		
3.	To perform Histogram Equalization on Image	B1	8/8/17		
		B2	8/8/17		
4.	To perform LPF & HPF in frequency domain	B1	5/9/17		
		B2	5/9/17		
5	To perform LPF & HPF in Spatial domain	B1	12/9/17		
		B2	12/9/17		
6.	To perform Morphological operations on an Image	B1	19/9/17		
		B2	19/9/17		
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**Design Experiments:**

7.	To perform restoration on a distorted image	B1	19/9/17		
		B2	19/9/17		
8.	To perform Edge Detection using Thresholding	B1	26/9/17		
		B2	26/9/17		
9.	To perform segmentation on a video clip	B1	26/9/17		
		B2	26/9/17		

**Group Learning Activity:**

10	Mini Project: Colour Image Enhancement by Histogram Processing	B1	3/10/17		
		B2	3/10/17		
11	Case Study on Image restoration on different images for different degradation function.	B1	3/10/17		
		B2	3/10/17		

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	<a href="http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm">http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm</a>

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2.	Currency Recognition System using Image Processing			B.E EXTC	Application	Project Based Learning	<a href="http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm">http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm</a>	
3.	Currency Counting Machine with Fake Note Detection			B.E EXTC	Application	Project Based Learning	<a href="http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm">http://www.imageprocessingplace.com/DIP-3E/dip3e_student_projects.htm</a>	
No. of Prac	Planned	Completed	No. of Assignments	Planned	Completed	No. of Tutorial	Planned	Completed
	Basic Exp: 06 Design Base Exp: 03 Group Learning : 2 Major Project: 03 Mini Project: 01			02			00	--
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><b>Note:</b></p> <ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. Entry for DOSLE (engaged on some other date) shall be done with proper mapping to DOSLNE.</li> </ol>								
(Mr. Manoj S. Chavan)			(Dr. Vinitkumar Dongre)			(Dr. R. R. Sedamkar)		
Name & Signature of Faculty			Signature of HOD			Signature of Principal / Dean Academic		
Date:			Date:			Date:		
Issued By: MR				Approved By: Principal				