

B.P. Poddar Institute of Management and Technology
Department of Information Technology
Academic Year: 20 –20, Sem: Even

Lesson Plan

Stream: B.Tech IT (3rd Year)

Subject: Digital Image Processing

Subject Code: PEC-IT601D

Faculty Name: _____

L.No	Description	Reference	Pedagogy	Planned Date	Actual Date
L1	Background & Applications	TB1,RB2			
L2	Digital Image Representation	TB1,RB2			
L3	Fundamental Steps	TB1			
L4	Simple Image Model	TB1			
L5	Translation & Scaling	TB1,RB2			
L6	Rotation & Projection	TB1,RB2			
L7	Sampling & Quantization	TB1			
L8	Pixel Connectivity	TB1			
L9	Relations & Closure	TB1,RB2			
L10	Distance Measures	TB1,RB2			
L11	Arithmetic Ops	TB1			
L12	Fourier Transform	TB1			
L13	2D FT Properties	TB1			
L14	Spatial Enhancement	TB1			
L15	Contrast Enhancement	TB1			
L16	Histogram Processing	TB1			
L17	Smoothing	TB1			
L18	Low Pass Filter	TB1			
L19	High Pass Filter	TB1			
L20	Derivative	TB1			

	Filtering				
L21	Freq Domain	TB1			
L22	Degradation Model	TB1			
L23	Discrete Formulation	TB1			
L24	Restoration	TB1			
L25	CLS Restoration	TB1			
L26	Homomorphic Filter	TB1			
L27	Geometric Transform	TB1			
L28	Interpolation	TB1			
L29	Point Detection	TB1			
L30	Edge Detection	TB1			
L31	Combined Detection	TB1			
L32	Edge Linking	TB1			
L33	Hough Transform	TB1			
L34	Thresholding	TB1,RB2			
L35	Region Segmentation	TB1,RB2			
L36	Numerical Practice	TB1,RB2			

Text Books:

1. Rafael C. Gonzalez ,Richard E. Woods-Digital Image Processing, 4/e-Pearson Education
2. S. Sridhar- Digital Image Processing 2ND Edition
3. Fundamentals Of Digital Image Processing- ANIL. K. JAIN

Reference Books:

1. Digital Image Processing, 2nd Edition- Jayaraman, S- McGraw Hill Education
2. Digital Image Processing And Analysis- B. Chanda, D. Dutta Majumder-PHI