

A. Jayalaxmi DIP 2015-16 (I Sem) DECE-B

LESSON PLAN

Period	Date (Tentative)	Topic	Unit No.	Teaching Methodology	Remarks	Corrective Action Upon Review
		Unit I: Introduction:	1	chalk & board		
1	14/7	→ Define Ob DIP.	1	"		
		→ Uses of DIP.	1	"		
2	14/7	→ Fundamental Steps in DIP		"		
3	15/7	→ Components of an Image processing system	1	"		
4	17/7	→ Digital Image Fundamentals.	1	"		
5	21/7	→ Elements of visual perception	1	"		
		→ Light & Em Spectrum	1	"		
6	21/7	→ Imaging Sensing & Acquisition	1	"		
7	22/7	→ Image Sampling & Quantization	1	"		
8	24/7	→ Some Basic Relation ships between pixels	1	"		
		→ Mathematical tools used in DIP	1	"		
		Image Thresholding	1	"		

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9	28/7	Need for Image Trans.	1	Chalk & Board		
		Spatial freq. in I.P.	1	"		
10	28/7	FT, DFT, FFT	1	"		
		properties of FT		"		
11	29/7	DCT, DST, Walsh- Transform, Haar wavelet	1	"		
12	31/7	haar, Slant, SVD	1	"		
		KL or Hotelling Trans.	1	"		
		Intensity Transformation				
		& spatial filtering.	2	PPT		
13	4/8	Back ground	2	"		
		Basic Functions	2	"		
14	4/8	Histogram processing	2	"		
15	5/8	Fundamentals of spatial ct	2	"		
16	7/8	Smoothing, Sharpening	2	"		
17	11/8	combining spatial enhancement methods	2	"		
18	11/8	fuzzy Tech. for Intensity Transformation & spatial filtering	2	"		

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		Filtering in Mean domain:	3	Chalk & Board, PPT		
19	12/8	→ Preliminary Concepts,	3	"		
20	14/8	→ Sampling & F.T of Sampling function.	3	"		
21	18/8	→ D.F.T of 1D & 2 variables.		"		
22	18/8	→ Properties of 2D DFT	3	"		
23	19/8	→ Basics of Filtering in F.D.	3	"		
24	21/8	→ Image Swatthing, Selective filtering, Implementation.	3	"		
		4. Image Restoration & Reconstruction:-	4	"		
25	25/8	→ A model of Image Degradation/Restoration process	4	"		
26	25/8	→ Noise models.	4	"		
27	26/8	→ Spatial filtering.	4	"		
28	28/8	→ Periodic noise reduction by freq. domain filtering	4	"		
29	1/9	→ L. position T. degradation	4	"		
		→ Ad. Image Restoration		"		

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Period	Date	Topic	Unit No.	Teaching Methodology	Remarks	Learning Outcomes
30	1/9	Tubular filling	4	100% 6		
		Tubular filling	4	"		
31	2/9	Combined test	4	"		
		Spine filling				
		Geometric mean	4	"		
32	4/9	Large population	4	"		
		Area Dissection				
		5 area large drawing	4	"		
33	15/9	Order structure	5	"		
34	18/9	Order structure	5	"		
		Order large drawing				
35	16/9					
36	18/9	Order, Transformation	5	"		
37	21/9	Ordering & Shaping	5	"		
38	22/9	Segmentation, Area	5	"		
39	23/9	Comparison of order				
		6: area & multi	6	"		
		Resolution planning		"		
40	25/9	Large dynamic	6			
41	29/9	Subland coding	6	"		
42	29/9	Order Transformation				

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57	27/10	Fundamentals	8	Chalk & Board		
58	27/10	point, line &	8	"		
59	28/10	Edge detection				
60	30/10	Thresholding	8	"		
61	3/11	Region - Based Segmentation	8	"		
62	3/11	" using morphological watershed - shed.	8	"		
63	4/11					
64	6/11	The use of motion in Segmentation.	8	"		