



C. U. SHAH UNIVERSITY
Wadhwan City

FACULTY OF:- Computer Science

DEPARTMENT OF:- MCA

SEMESTER:- V

CODE :- 5CS05MTL1

NAME – PROGRAMMING TECHNIQUE-X (IMAGE PROCESSING)

Teaching and Evaluation Scheme

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	Total		Theory				Practical (Marks)			Total
							Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
5CS05MTL1	PROGRAMMING TECHNIQUE-X (IMAGE PROCESSING)	0	0	4	4	2	30	1.5	70	3	20	---	80	100

PRACTICAL LIST:

1	Getting started with image processing software
2	Understanding digital image
3	Image Sampling and Quantization
4	Understanding basic relationship between pixel
5	Image Geometric Corrections
6	Image radiometric correction
7	Image atmospheric correction
8	Image Enhancement
9	Image spatial filtering & intensity transformation
10	Image Filtering in the frequency domain (introduction)
11	Image Transformation, Band ratio, NDVI, NDWI
12	PCA, Arithmetic operation on images
13	Image Classification
14	Supervised Classification
15	Training data set / ROIs
16	Un-supervised Classification
17	Taking output from image processing software in generic & specific format