

**0510.7211 Image Processing Applications – Advanced Image Processing Lab.
Semester B, 2007**

Wee k	Date	IMAGE PROCESSING: APPLICATIONS	ADV.LAB
1	14.5		Getting started Lab. 1 Image Digitization: Discretization
	15.5	Lect. 1 Principles of Image Digitization Lect. 2. Image Discretization by Sampling	
2	21.5		Lab. 2 Image Digitization: Quantization
	22.5	Lect. 3 Image Quantization	
3	28.5		Lab. 3 Image Coding: Predictive methods Lab. 4 Image Coding: Transform methods
	29.5	Lect. 4 Digital Image Compression Methods	
4	4.6		Lab. 5 Image Global and Local Statistics
	5.6	Lect. 5 Statistical Image and Noise Models and Noise Diagnostics	
5	11.6		Lab. 6 Statistical Image and Noise Models and Noise Diagnostics
	12.6	Lect. 6 Imaging Transformations Lect. 7 Discrete Representation of imaging transformations	
6	18.6		Lab. 7 Image resampling and geometrical Transformations
	19.6	Lect. 8. Methods of image filtering and re-sampling in signal and transform domain	
7	25.6		Lab. 8 Target Location and object detection: Localization accuracy and reliability
	26.6	Lect. 9 Image quantification. Object localization and image registration	
8	2.7		Lab. 9 Target location and object detection in cluttered images
	3.7	Lect. 10 Target Location in Clutter	
9	9.7		Lab. 10 Linear Filters for Image Restoration and Enhancement
	10.7	Lect. 11 Image Restoration and Enhancement: Linear Filters	
10	16.7		Lab. 11 Rank Filters for Image Restoration, Enhancement and Segmentation
	17.7	Lect. 12 Image restoration, enhancement and segmentation: Nonlinear filters	
END OF SEMESTER			
16			EXAM
		EXAM	