

## COURSE DESCRIPTION

COURSE NAME		<b>DIGITAL IMAGE PROCESSING</b>					CODE: MOC2103O2	
STUDY YEAR	MASTER II	SEMESTER	1	COURSE STATUS ( <b>C</b> -compulsory/ <b>OP</b> -optional/ <b>F</b> -facultative)			OP	
HOURS PER WEEK				TOTAL HOURS PER SEMESTER	TOTAL HOURS INDIVIDUAL ACTIVITY	CREDITS	EVALUATION ( <b>P</b> -during the semester, <b>C</b> -oral examination, <b>E</b> -written examination, <b>M</b> -mixed)	TEACHING LANGUAGE
C	S	L	Pr.	56	184	8	M	English
2	-	2	-					
COURSE TEACHER		TEACHING AND SCIENTIFIC DEGREE, FIRST NAME, LAST NAME				DEPARTMENT		
		LECT. DR. ANCA IGNAT				Computer Science		
PREVIOUS COURSES REQUESTED		Numerical Calculus						
OBJECTIVES		Understanding the basic techniques used in digital image processing						
GENERAL DESCRIPTION		<ul style="list-style-type: none"> <li>• Examples, fundamentals in image processing</li> <li>• Sampling and quantization, reconstruction</li> <li>• Image enhancement in the spatial domain: histogram processing, spatial filters</li> <li>• Image enhancement in the frequency domain: smoothing, sharpening</li> <li>• Color image processing</li> <li>• Image compression</li> <li>• Morphological image processing</li> <li>• Image segmentation</li> <li>• Object recognition</li> </ul>						
DESCRIPTION OF SEMINARY / LABORATORY WORKS		<ul style="list-style-type: none"> <li>• Presenting and using MATLAB package in image processing</li> <li>• Implementing some algorithms</li> <li>• Presenting articles in image processing domain</li> </ul>						
TEACHING METHODS		slides on video-projectors						
BIBLIOGRAPHY (SELECTION)		<ul style="list-style-type: none"> <li>• R.C. Gonzales, R.E. Woods, <i>Digital Image Processing</i>, Prentice Hall, 2007 (ed. a 3-a)</li> <li>• R.C. Gonzales, R.E. Woods, S.L. Eddins, <i>Digital Image Processing Using MATLAB</i>, Prentice Hall, 2003</li> <li>• W.K. Pratt, <i>Digital Image Processing</i>, Wiley-Interscience, 2007 (ed. a 4-a)</li> </ul>						
EVALUATION		conditions	Final score (lab + exam) must exceed a certain threshold					
		criteria						
		evaluation methods						
		final result - formula						