Digital Image Processing								
Course code		student	credits	semester		frequency	duration	
CIF61	1048	workload	(according to ECTS)	Sem. 5 & 7	eacl	n odd-semester	16 meetings	
		90 hours	4,5					
1	Types of	of courses contact hours independent stu		dent study	class size			
	Elective		63	63 hours		hours	40 students	
5	Prerequi	equisites for participation						
	Have cor	Have completed Algorithms and Data Structures						
2	Learning outcomes							
	IF-ILO-3							
	Graduates are able to develop professional careers in the field of computer science based on quality aspects, data-based decision making, be responsible, and make continuous improvements.							
	IF-ILO-7							
	Mastering the theoretical concept and principles of computer science, especially in the aspect of algorithms, programming, intelligent systems, information management, parallel and distributed computing, information security, human-computer interaction, software engineering, and fundamentals of computer systems and networks.							
	IF-ILO-10							
	Graduates are able to analyze, design, build and evaluate an intelligent system that has the ability to learn from the environment.							
3	Subject aims							
	Students are able to understand the basic concepts of digital image processing							
	Students are able to know and understand how to take and present digital images							
	Students are able to know, understand and able to implement digital image quality improvement							
	Students are able to know, understand and able to implement the processing of color images							
	Students are able to know, understand and able to implement image analysis, including:							
	a) Image morphology (morphological image processing)							
	b) Image segmentation (image segmentation)							
	c) Image representation and description							
	d) Detection and recognition of objects (object detection and recognition)							
4	Teaching methods							
	lectures, case study, class discussion, presentation							
6	Assessment methods							
	assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment							
8	This mod	dule is used in th	e following	degree progr	ammes a	s well		

10	Responsibility for module			
11	Other information			
	1. Rafael C. Gonzalez. 2002. Digital Image Processing 2nd Edition. Prentice Hall. Upper Saddle River, New Jersey 07458.			
	2. William K. Pratt. 2001. Digital Image Processing: PIKS Inside, 3rd Edition. John Wiley & Sons, Inc.			