

Computer Science Engineering MSc, University of Pécs, Faculty of Engineering and Information Technology

General Studies in Informatics	subject code	37	1. semester	2. semester	3. semester	4. semester
Modern chapters from computer science		5	2 2 0 E 5			
Applied calculus		6	3 2 0 m 6			
Mathematical modelling		5		2 2 0 E 5		
Quantum informatics, cryptography		5		2 0 0 m 5		
Signals and systems		5		3 1 0 m 5		
Engineering practice in EU 2		2			2 0 0 E 2	
Engineering ethics and attitude		4			2 2 0 E 4	
Environment protection for engineers		3	2 0 0 m 3			
Technical quality management		2		2 0 0 m 2		
Professional Studies in Informatics		27				
Theory of algorithms		6	3 2 0 E 6			
Production and process management		4	2 2 0 m 4			
Diffuse models in image processing		4	2 2 0 m 4			
Artificial intelligence		4		28 2 2 0 E 4		
Parallel algorithms and programming		4		2 2 0 E 4		
Design and programming of databases		5			2 2 0 E 5	
Intelligent systems -specialisation-		20				
Robotic systems		4		2 2 0 E 4		
Computer vision systems		4			2 2 0 E 4	
Intelligent controll systems		4			2 2 0 E 4	
Information technology for autonomuous systems		4			2 2 0 E 4	
Project work		4			0 4 0 m 4	
High Performance Computing - Specialisation-		20				
Large-scale linear systems of equations		4		2 2 0 E 4		
Visualization methods		4			2 2 0 E 4	
Parallel programming techniques		4			2 2 0 E 4	
Cluster technology, Grid and Cloud computing		4			2 2 0 E 4	
Project work		4			0 4 0 m 4	
Elective courses		6				
Elective course		3		0 2 0 m 3		
Elective course		3			0 2 0 m 3	
Diploma work		30				
Diploma work		30				4 20 0 s 30

Total analysis of full program	120				
Number of Credits	28	32	30	30	
Number of Study Hours/week (all)	24	30	30	24	
Number of Study Hours/week (lectures)	14	17	14	4	
Number of Study Hours/week (practical lessons)	10	13	16	20	
Number of Study Hours/week (for project)	0	0	0	0	