Year	Subject	CAT	ECTS	HOURS	
	1st Semester				
	Physical and Technological Foundations of Informatics	Basic	6	5	
	Logic	Basic	6	4	
	Discrete Mathematics I	Basic	6	5	
	Linear algebra	Basic	6	5	
ear	Programming I	Eng.	6	5	
1st Year	2nd Semester				
	Calculus	Basic	6	5	
	Probability and Statistics I	Basic	6	4	
	Digital Systems	Basic	6	5	
	Programming II	Eng.	6	4	
	Human-Computer Interaction	Eng.	6	4	

Year	Subject	CAT	ECTS	HOURS	
	3rd Semester				
	Numerical Algorithms	Basic	6	5	
	Discrete Mathematics II	Basic	3	3	
	Formal Languages, Automata and Computability	Eng.	6	3	
	Systems Programming	Eng.	3	2	
	Algorithms and Data Structure	Eng.	6	4	
ar	Computer Structure	Eng.	6	5	
2nd Year	4th Semester				
2nd	Probability and Statistics II	Basic	3	2	
	Fundamentals of Economics and Business Administration	Gen.	3	2	
	Fundamentals of Information Technology Management in Business	Gen.	3	2	
	Concurrency	Eng	3	2	
	Databases	Eng	6	4	
	Computer Architecture	Eng	6	5	
	Computer Networks	Eng	6	5	

Year	Subject	CAT	ECTS	HOURS	
	5th Semester				
	Subject		ECTS	HOURS	
	Language Processors	Eng	3	3	
	Artificial Intelligence	Eng	6	4	
	Operating Systems	Eng	6	5	
•.	Information Technologies Security	Eng	6	4	
3rd Year	Engineering subjects (elective)	Eng	9	6-9	
rd)	6th Semester				
· co	Declarative Programming: Logic and Constraints	Eng	3	2	
	Software Engineering I	Eng	6	4	
	Data Center Design Project	Eng	3	2	
	Distributed Systems	Eng	6	4	
	Service-Oriented Computing	Eng	6	4	
	Engineering subjects (elective)	Eng	6	4-6	

Year	Subject	CAT	ECTS	HOURS
	7th-8th Semester			
ar	Subject		ECTS	HOURS
	Information Technologies Process Management	Eng.	6	3
Year	English for Professional and Academic Communication	Gen.	6	4
4th	Software Engineering II	Eng	6	3
	Engineering subjects (elective) / Practicum	Eng	30	20-25
	Final-Term Project		12	

ELECTIVE (YEAR 3)

Year	Subject	CAT	ECTS	HOURS		
	5th Semester					
	Subject		ECTS	HOURS		
	Industrial Informatics	Eng (elect)	6	4		
	Operational Research	Eng (elect)	6	4		
	Optoelectronic Systems	Eng (elect)	3	2		
	Numerical Applications of Informatics	Eng (elect)	3	2		
	Middleware	Eng (elect)	3	2		
/ear	Building up Communications Skills	Eng (elect)	3	2		
3rd Year	Differential Equations: Methods and Models	Eng (elect)	6	4		
e.	6th Semester					
	Numerical Algorithms II	Eng (elect)	3	2		
	Digital Signal Processing	Eng (elect)	6	4		
	Intelligent Systems	Eng (elect)	6	4		
	Professional and Academic Spanish	Eng (elect)	3	2		
	Personal Computers	Eng (elect)	3	2		
	Language Translators	Eng (elect)	3	2		

ELECTIVE (YEAR 4)

Year	Subject	CAT	ECTS	HOURS		
	7th Semester					
	Subject		ECTS	HOURS		
	IT System Administration	Eng (elect)	3	2		
	Web of Linked Data and Semantic Web	Eng (elect)	3	2		
	Planning Systems	Eng (elect)	3	2		
	Pattern Recognition	Eng (elect)	3	2		
	Scientific Computing Techniques	Eng (elect)	3	2		
	Nanotechnology	Eng (elect)	3	2		
	Wireless Communication Technologies	Eng (elect)	3	2		
	Cisco Network Technologies: CCNA	Eng (elect)	6	4		
	8th Semester					
ear	3D Geometry for Computer Graphics	Eng (elect)	3	2		
4th Year	High Performance Architectures and Computing	Eng (elect)	3	2		
4	Robotic and Computer Perception	Eng (elect)	3	2		
	Dynamical Systems, Chaos and Fractals	Eng (elect)	6	4		
	Computability Theory	Eng (elect)	3	2		
	Web Application Design	Eng (elect)	3	2		
	Applications of Voice Biometrics	Eng (elect)	3	2		
	Computational Photography	Eng (elect)	3	2		
	Technology Integration Engineering	Eng (elect)	3	2		
	Data Warehouse Architecture	Eng (elect)	3	2		
	Geometric Algorithms	Eng (elect)	3	2		
	Data Mining	Eng (elect)	3	2		
	Practicum	Eng (elect)	12	-		