

INFORMATION TECHNOLOGY

Subjects available to choose from on each year/semester are marked with ECTS points and highlighted in colour.

Lp	SUBJECT NAME	1st Year		2nd Year		3rd Year		4th year
		1st semester (winter)	2nd semester (summer)	3rd semester (winter)	4th semester (summer)	5th semester (winter)	6th semester (summer)	7th semester (winter)
General								
1	Foreign language	2	2	2	2			
2	** Elective: Sociology / Philosophy		1					
3	Negotiation techniques and social mediation		1					
4	Physical Education	1	1					
5	Health & Safety Training							
6	Library Training							
7	Internship (4 weeks)				1			
Fundamental Sciences								
9	Linear algebra and analytical geometry		5					
10	** Elective - analysis and signal processing / digital signal processing				5			
11	Mathematical analysis	6						
12	Physics	5						
13	** Elective - Eco-engineering / Renewable energy sources		3					
14	Logic and set theory	5						
15	Discrete mathematics		5					
16	Numerical Methods I				2			
17	Numerical Methods II					2		
18	Probabilistic methods and statistics I			4				
19	Probabilistic methods and statistics II				1			
20	Electronic surveying				2			
21	Automation basics			5				
22	Basics of electrotechnics and electronics	4						
23	Techniques and digital technologies I	2						
24	Techniques and digital technologies II		1					
25	Techniques and digital technologies III			1				
Specialised sciences								
26	Algorithms and Data Structures			6				
27	Computer architecture						4	

28	Database				5			
29	Safety and security of data in computer systems						3	
30	Database Engineering					4		
31	Software Engineering						6	
32	Java language						3	
33	Programming languages I			4				
34	Programming languages II				4			
35	Communication: human - PC							2
36	Modeling and computer simulations					2		
37	Basics of IT and computer systems	5						
38	Programming basics		6					
39	**Elective: Basics of telecommunications / Basics of teleinformatics		3					
40	**Elective: IT project / IT Implementation project					6		
41	Computer Networks				4			
42	Operating Systems			4				
43	Embedded systems							6
44	**Elective: Artificial Intelligence (AI) / Neural networks						5	
45	Computer graphics technics					4		
46	Multimedia technics					3		
47	Internet technologies					2		
48	Social and professional issues of Information Technology		2					
SPECIALITY 1: INTERNET TECHNOLOGIES AND COMPUTER GRAPHICS								
49	Computer Graphics and visualisation				4			
50	Internet : WWW programming						4	
51	Internet engineering			4				
52	Information Technologies multimedia					2		
53	**Elective: 3D Computer graphics / Acquisition and image visualization equipment							5
54	Image processing							5
55	Content Management Systems					3		
56	Proseminar					2		
57	Diploma seminar						5	12
SPECIALITY 2: SOFTWARE ENGINEERING AND NETWORK SYSTEMS								
58	Engineering of information systems and management of information projects							5
59	Microcontroller programming			4				

60	Project and programming of graphical environment					3		
61	Implementation and projects of Network Systems					2		
62	** Elective: Network services programming / Network equipment and their configuration							5
63	Network Operating Systems (GNU/Linux)				4			
64	Mobile systems and wireless telecommunication networks						4	
65	Proseminar					2		
66	Diploma seminar						5	12
SPECIALITY 3: MOBILE TECHNOLOGIES								
67	** Elective: Business use of mobile technology / Mobile technologies in computer networks							5
68	Application integration with mobile systems							5
69	Mobile Database					2		
70	Mobile application projects in Windows					3		
71	Mobile application projects in iOS Apple						4	
72	Mobile application projects in Android				4			
73	Web application development for mobile devices			4				
74	Proseminar					2		
75	Diploma seminar						5	12