

Domeniul fundamental (DFI): STIINTE INGINERESTI

Ramura de stiinta (RSI): INGINERIA SISTEMELOR, CALCULATOARE SI TEHNOLOGIA INFORMATIEI

Domeniul de licenta (DL): COMPUTERS AND INFORMATION TECHNOLOGY

Specializarea (S): COMPUTERS

Cod DFI:	CodRSI:	CodDL:	CodS:
20	60	10	10

cicl	c1c	a1a
L	002	20

CURRICULA
Academic year 2020 - 2021

3 th YEAR											4 th YEAR																													
SEMESTER 5					SEMESTER 6						SEMESTER 7					SEMESTER 8																								
1	Artificial Intelligence Fundamentals					Elective 5 (selected from positions 1 to 5 of list)						Elective 10 (selected from positions 1 to 8 of list)					Elective 15 (is selected from positions 1 to 7 of list)																							
	L002.20.05.D1	6	E	42	0	14	14	DD	74	L002.20.06.DX-ij	4	E	28	0	14	14	DD	40	L002.20.07.SX-ij	6	E	28	0	28	0	DS	64	L002.20.08.SX-ij	4	E	28	0	14	0	DS	40				
2	Databases					Elective 6 (selected from positions 1 to 9 of list)						Elective 11 (selected from positions 1 to 8 of list)					Elective 16 (is selected from positions 1 to 7 of list)																							
	L002.20.05.D2	4	D	28	0	14	14	DD	40	L002.20.06.SY-ij	4	E	28	0	28	0	DS	40	L002.20.07.SY-ij	6	E	28	0	28	0	DS	64	L002.20.08.SY-ij	4	E	28	0	14	0	DS	40				
3	Elective 1 (selected from positions 1 and 2 of list)					Elective 7 (selected from positions 1 to 9 of list)						Elective 12 (selected from positions 1 to 8 of list)					Elective 17 (is selected from positions 1 to 7 of list)																							
	L002.20.05.DX-ij	5	E	28	0	28	14	DD	50	L002.20.06.SZ-ij	4	E	28	0	28	0	DS	40	L002.20.07.SZ-ij	6	E	28	0	28	0	DS	64	L002.20.08.SZ-ij	4	E	28	0	14	0	DS	40				
4	Elective 2 (selected from positions 1 to 8 of list)					Elective 8 (selected from positions 1 to 9 of list)						Elective 13 (selected from positions 1 to 8 of list)					Elective 18 (is selected from positions 1 to 7 of list)																							
	L002.20.05.SY-ij	5	E	28	0	28	0	DS	64	L002.20.06.SU-ij	4	E	28	0	28	0	DS	40	L002.20.07.SU-ij	6	E	28	0	28	0	DS	64	L002.20.08.SU-ij	4	E	28	0	14	0	DS	40				
5	Elective 3 (selected from positions 1 to 8 of list)					Elective 9 (selected from positions 1 to 9 of list)						Management and Marketing					Entrepreneurship in IT																							
	L002.20.05.SZ-ij	5	E	28	0	28	0	DS	64	L002.20.06.SV-ij	4	D	28	0	28	0	DS	40	L002.20.07.C5	3	D	28	14	0	0	DC	54	L002.20.08.S5	2	D	14	14	0	0	DS	20				
6	Elective 4 (selected from positions 1 to 8 of list)					Microeconomics						Specialized Practicum for Diploma*					Development of Diploma Thesis																							
	L002.20.05.SU-ij	5	D	28	0	28	0	DS	64	L002.20.06.C6	3	D	28	14	0	0	DC	30	L002.20.07.S6	3	C	0	0	0	98	DS	48	L002.20.08.S6	2	C	0	0	0	168	DS	64				
7	Optional - choose from any specialization curriculum					Professional and Ethical Issues in IT						Optional - choose from any specialization curricula					Diploma Exam**																							
	L002.20.05.f7-ij								f	L002.20.06.S7	3	D	28	14	0	0	DS	30	L002.20.07.f7-ij							f	L002.20.08.7	10	E				0							
8						Domain-specific Practicum											Optional - choose from any specialization curricula																							
										L002.20.06.D8	4	C					DD	150									L002.20.08.f8							f						
9						Optional - choose from any specialization curricula																																		
										L002.20.06.f9-ij							f																							
total/ sem.	ore:		364			VPI:		356			ore:		364			VPI:		410			ore:		364			VPI:		358			ore:		364			VPI:		244		
	credite:		30			evaluări:		4E, 2D			credite:		30			evaluări:		4E, 3D, 1C			credite:		30			evaluări:		4E, 2D			credite:		30			evaluări:		5E, 1D		
total/ săpt.	ore:		26								ore:		26								ore:		26								ore:		26							
	din care:					13		0 10 3 (c, s, l, p)			din care:					14		2 9 1 (c, s, l, p)			din care:					10		1 8 7 (c, s, l, p)			din care:					9		1 4 12 (c, s, l, p)		

- lasting 7 weeks x 28 hours of which 2 weeks x 28 hours internship
- consists of: fundamental and speciality knowledge assessment, diploma exam

Professional competencies:

- Operating with scientific, engineering and IT fundamentals
- Designing hardware, software and communication components
- Problem solving by using computer science and engineering tools
- Improving the performance of hardware, software and communication systems
- Designing, managing the life cycle, integrating and managing the integrity of hardware, software and communication systems
- Designing intelligent systems

Transversal competencies:

- Behaving honorably, responsibly and ethical, according to the law, to ensure problem solving
- Identifying, describing and executing the processes of project management, by fulfilling various roles within the team, and describing the results in the field of activity, in a clear and concise manner, verbal and in writing, using the Romanian language and an international language
- Proving action and initiative spirit to act current with the knowledge at professional, economic and management levels

DISCIPLINE OPTIONALE (ELECTIVE DISCIPLINES)
Academic year 2020 - 2021

		3 th YEAR										4 th YEAR																							
		SEMESTER 5					SEMESTER 6					SEMESTER 7					SEMESTER 8																		
01	Digital Microsystems Design						Digital Signal Processing					Peripheral Interfaces and Devices - nu e activat					Reconfigurable Computing																		
	L002.20.05.D#-01	5	E/D	28	0	28	14	DD	50	L002.20.06.D#-01	4	E/D	28	0	14	14	DD	40	L002.20.07.S#-01	6	E	28	0	28	0	DS	64	L002.20.08.S#-01	4	E	28	0	14	0	DS
02	Software Systems Design						Compilation Techniques					Digital Telecommunication					Computer Systems Reliability																		
	L002.20.05.D#-02	5	E/D	28	0	28	14	DD	50	L002.20.06.D#-02	4	E/D	28	0	14	14	DD	40	L002.20.07.S#-02	6	E	28	0	28	0	DS	64	L002.20.08.S#-02	4	E	28	0	14	0	DS
03	Mechanical Engineering and Robotics						Introduction to IoT and Cloud Architectures					Image Processing and Recognition					Expert Systems																		
	L002.20.05.S#-03	5	E/D	28	0	28	0	DS	64	L002.20.06.D#-03	4	E/D	28	0	14	14	DD	40	L002.20.07.S#-03	6	E	28	0	28	0	DS	64	L002.20.08.S#-03	4	E	28	0	14	0	DS
04	Fundamental Concepts of Programming Languages						Database Design					Software Verification and Validation					Software Project Management																		
	L002.20.05.S#-04	5	E/D	28	0	28	0	DD	64	L002.20.06.D#-04	4	E/D	28	0	14	14	DD	40	L002.20.07.S#-04	6	E	28	0	28	0	DS	64	L002.20.08.S#-04	4	E	28	0	14	0	DS
05	Large Scale Integrated Circuits						Computer graphics					Mobile Systems and Applications					Multimedia Systems																		
	L002.20.05.S#-05	5	E/D	28	0	28	0	DS	64	L002.20.06.D#-05	4	E/D	28	0	14	14	DD	40	L002.20.07.S#-05	6	E	28	0	28	0	DS	64	L002.20.08.S#-05	4	E	28	0	14	0	DS
06	Computer Engineering						Data Mining					Computer Aided Design					Fuzzy Logic and Applications																		
	L002.20.05.S#-06	5	E/D	28	0	28	0	DS	64	L002.20.06.S#-06	4	E/D	28	0	28	0	DS	40	L002.20.07.S#-06	6	E	28	0	28	0	DS	64	L002.20.08.S#-06	4	E	28	0	14	0	DS
07	Web Application Design						Embedded Systems					Verification and Validation of Hardware Systems																							
	L002.20.05.S#-07	5	E/D	28	0	28	0	DS	64	L002.20.06.S#-07	4	E/D	28	0	28	0	DS	40	L002.20.07.S#-07	6	E	28	0	28	0	DS	64								
08	Computer Security						Complexity and Computability					Concurrent and Event-Based Programming																							
	L002.20.05.S#-08	5	E/D	28	0	28	0	DS	64	L002.20.06.S#-08	4	E/D	28	0	28	0	DS	40	L002.20.07.S#-08	6	E	28	0	28	0	DS	64								
09							Design and Architecture of Complex Software Systems																												
										L002.20.06.S#-09	4	E/D	28	0	28	0	DS	40																	
10							Distributed Programming																												
										L002.20.06.S#-10	4	E/D	28	0	28	0	DS	40																	
11																																			
12																																			

Nota: Din fiecare dintre grupurile de **Discipline optionale** se activează un număr de discipline în funcție de opțiunile studenților, de numărul studenților și de acoperirea financiară.

