

Undergraduate programme - COMPUTER SCIENCE - study mode: full-time

Applicable from the academic year 2023/24 (for elective and specialization courses - from the 2021/22 academic year)

	Course Name	code	lect	hrs. class/lab	1st YR		2nd YR		3rd YR		4th YR		ECTS score
					1	2	3	3	5	6	7		
1	Calculus	AM	30	30	EZ								6
2	Foundations of Java Programming	PPJ	30	60	EZ								6
3	Computer Techniques and Architecture	TAK	30	0	E								4
4	Introduction to Management	WDZ	30T	30	Z								3
5	Introduction to Information Systems	WSI	16	30	EZ								5
6	History and Culture of Japan	HKJ	30	0	Z								3
7	English	ANG	0	60	Z								3
8	Occupational Health and Safety	BHP	4	0	Z								0
9	Linear Algebra with Geometry	ALG	30	30		EZ							5
10	Discrete Mathematics	MAD	30	30		EZ							5
11	Relational Databases	RBD	30	30		EZ							5
12	Object Oriented-Programming and Graphical User Interface	GUI	30	30		Z							4
13	Programming in C and C++	PJC	30	30		Z							4
14	Operating Systems	SOP	30	15+15int		Z							4
15	English	ANG	0	60		Z							3
16	Algorithms and Data Structures	ASD	30	30			EZ						5
17	Statistical Data Analysis	SAD	30	30			EZ						5
18	Database Systems	SBD	30	30			EZ						6
19	Digital Systems and Foundations of Electronics	SYC	30	30			Z						4
20	Universal Programming Techniques	UTP	30	30			Z						4
21	Computer Networks and Network Programming in Java	SKJ	30	30			EZ						5
22	English	ANG	0	60			Z						3
23	Artificial Intelligence Tools	NAI	30	30				EZ					7
24	Fundamentals of Python Programming	PPY	30	30				Z					4
25	Physical Education	WF	0	30				Z					0
26	Information Systems Design	PRI	30	30				EZ					7
27	Legal Foundations of Business	PPB	16int	0				Z					3
28	Multimedia	MUL	30	30				Z					7
29	Foreign language	LEK	0	60				Z					3
30	Project 1 (for each specialization)	PRO1	30	30						Z			7
31	Specialization-specific course 1	/	30	30						EZ			6
32	Computer Graphics	GRK	30	30						EZ			6
33	Software Engineering	BYT	30	30						EZ			6
34	Information Systems Security	BSI	30	30						EZ			6
35	Foreign language	LEK	0	60						Z			3
36	Physical Education	WF	0	30						Z			0
37	Project 2 (for each specialization)	PRO2	30	30							Z		7
38	Specialization-specific course 2	/	30	30							EZ		6
39	Modeling and analysis of information systems	MAS	30	30							EZ		6
40	Foreign language	LEK	0	60							Z		3
41	Project 3 (for each specialization)	PRO3	30	30								Z	9
42	Internship		160h										6
43	Human-Computer Interaction	ICK	30	30								EZ	4
44	IT Project Management	ZPR	30	30								EZ	4
45	Foreign language	LEK	0	30								Z	3
	Elective courses (6 required)												✕
1	Foundations of Computer Simulations	PSM	30	30				EZ					4
2	Database Applications	APBD	30	30				EZ					4
3	Distributed Programming Technologies	TPO	30	30				EZ					4
4	Knowledge Engineering Methods*	MIW	30	30							EZ		4
5	Machine Learning Foundations*	PUM	30	30							EZ		4
6	Basics of Bioinformatics**	PBIO	30	30							EZ		4
7	Unreal Engine programming and advanced techniques with C++**	UEC	30	30							EZ		4
8	Business Process Engineering**	IPB	30	30							EZ		4
9	Machine learning deployment and AutoML****	SUML	30	30								EZ	4
10	Introduction to Quantum Computing****	WOK	30	30								EZ	4
11	Automata and Grammars***	AUG	30	30								EZ	4
12	Machine learning operations and system architectures***	ASI	30	30								EZ	4
13	Content Management Systems****	CMS	30	30								EZ	4
	Specialization-specific courses												✕
1	Internet Technologies (specialization codes: A, IO, E, G)	TIN	30	30						EZ			6
2	Advanced Computer Networks (specialization codes: B, H, C)	ZSK	30	30						EZ			6
3	Intelligent Control Systems (specialization codes: D, F)	ISS	30	30						EZ			6
4	Participatory Game Design (specialization code: J)	PAPG	30	30						EZ			6
5	Database Administration (specialization codes: A, IO)	ABD	30	30							EZ		6
6	Advanced Operating Systems (specialization codes: B, C)	ZSO	30	30							EZ		6
7	Machine Vision (specialization codes: D, E, F)	WMA	30	30							EZ		6
8	Unity - Design Patterns and Programming Practices (spec.: J)	UWP	30	30							EZ		6
9	Mobile Programming (specialization codes: G, H)	PRM	30	30							EZ		6

T - course conducted remotely using teleconferencing platform

ECTS required: 229

*Student may choose only one course from each pair marked with the same number of asterisks.

E - exam

Z - graded credit