

**Undergraduate programme - INFORMATION TECHNOLOGY - study mode: full-time**

Applicable from the academic year 2022/23

	Course Name	code	hrs.		1st YR		2nd YR		3rd YR		4th YR		ECTS score
			lect	class/lab	1	2	3	3	5	6	7		
1	Calculus	AM	30	30	EZ								6
2	Fundamentals of Java Programming	PPJ	30	60	EZ								6
3	Computer Techniques and Architecture	TAK	30	0	E								4
4	Introduction to Management	WDZ	30	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	Linear Algebra with Geometry	ALG	30	30		EZ							5
9	Discrete Mathematics	MAD	30	30		EZ							5
10	Relational Databases	RBD	30	30		EZ							5
11	Object Oriented-Programming and Graphical User Interface	GUI	30	30		Z							4
12	Programming in C and C++	PJC	30	30		Z							4
13	Operating Systems	SOP	30	30		Z							4
14	English	ANG	0	60		Z							3
15	Algorithms and Data Structures	ASD	30	30			EZ						5
16	Statistical Data Analysis	SAD	30	30			EZ						5
17	Database Systems	SBD	30	30			EZ						6
18	Digital Systems and Basics of Electronics	SYC	30	30			Z						4
19	Universal Programming Techniques	UTP	30	30			Z						4
20	Computer Networks and Network Programming in Java	SKJ	30	30			EZ						5
21	English	ANG	0	60			Z						3
22	Artificial Intelligence Tools	NAI	30	30				EZ					7
23	Fundamentals of Python Programming	PPP	30	30				Z					4
24	Physical Education	WF	0	30				Z					1
25	Software Design	PRI	30	30				EZ					7
26	Legal Foundations of Business	PPB	16int	0				Z					3
27	Multimedia	MUL	30	30				Z					7
28	Foreign language	LEK	0	60				Z					3
29	Project 1 (for each specialization)	PRO1	30	30					Z				7
30	Specialization-specific course 1	/	30	30					EZ				6
31	Computer Graphics	GRK	30	30					EZ				6
32	Software Engineering	BYT	30	30					EZ				6
33	Software Project Management	ZPR	30	30					EZ				5
34	Foreign language	LEK	0	60					Z				3
35	Physical Education	WF	0	30					Z				1
36	Project 2 (for each specialization)	PRO2	30	30						Z			7
37	Specialization-specific course 2	/	30	30						EZ			6
38	Design and Analysis of Information Systems	MAS	30	30						EZ			6
39	Information Systems Security	BSI	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										-
43	Human-Computer Interaction	ICK	30	30							EZ		4
44	Foreign language	LEK	0	60							Z		3
<b>Elective courses (6 required)</b>													<del>X</del>
1.	Fundamentals 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.	Methods of Knowledge Engineering*	MIW	30	30						EZ			4
5.	Basis of Machine Learning*	PUM	30	30						EZ			4
6.	Business Process Engineering**	IPB	30	30						EZ			4
7.	AutoML Runtime Environments**	SUML	30	30						EZ			4
8.	Automata and Grammars***	AUG	30	30							EZ		4
9.	Machine Learning Operations and System Architectures***	ASI	30	30							EZ		4
10.	Content Management Systems	CMS	30	30							EZ		4
<b>Specialization-specific courses</b>													<del>X</del>
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.	Database Administration (specialization codes: A, IO)	ABD	30	30							EZ		6
5.	Advanced Operating Systems (specialization codes: B, C)	ZSO	30	30							EZ		6
6.	Machine Vision (specialization codes: D, E, F)	WMA	30	30							EZ		6
7.	Programming for Mobile Devices (specialization codes: G, H)	PRM	30	30							EZ		6

Elective courses marked with \*, \*\*, and \*\*\* respectively characters are mutually exclusive

E - exam

Z - graded credit