

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

Applicable since academic year 2019/20

	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	44	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	Physical Education	WF	0	30				Z				1
24	Software Design	PRI	30	30				EZ				7
25	Legal Foundations of Business	PPB	16int	0				Z				3
26	Multimedia	MUL	30	30				Z				7
27	Foreign language	LEK	0	60				Z				3
28	Project 1 (for each specialization)	PRO1	30	30					Z			7
29	Specialization-specific course 1	/	30	30					EZ			6
30	Computer Graphics	GRK	30	30					EZ			6
31	Software Engineering	BYT	30	30					EZ			6
32	Software Project Management	ZPR	30	30					EZ			5
33	Foreign language	LEK	0	60					Z			3
34	Physical Education	WF	0	30					Z			1
35	Project 2 (for each specialization)	PRO2	30	30						Z		7
36	Specialization-specific course 2	/	30	30						EZ		6
37	Design and Analysis of Information Systems	MAS	30	30						EZ		6
38	Information Systems Security	BSI	30	30						EZ		6
39	Foreign language	LEK	0	60						Z		3
39	Project 3 (for each specialization)	PRO3	30	30							Z	9
40	Internship		160h									-
41	Human-Computer Interaction	ICK	30	30							EZ	4
42	Foreign language	LEK	0	60							Z	3
<b>Elective courses (6 required)</b>												
1.	Fundamentals of Computer Simulations	PSK	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
4.	Basis of Machine Learning*	PUM	30	30						EZ		4
5.	Business Process Engineering**	IPB	30	30						EZ		4
5.	AutoML Runtime Environments**	SUML	30	30						EZ		4
6.	Automata and Grammars***	AUG	30	30							EZ	4
6.	Architecture of Solutions and Methodology of AI Implementation***	ASI	30	30							EZ	4
7.	Content Management Systems	CMS	30	30							EZ	4
<b>Specialization-specific courses</b>												
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)	WMR	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