



Bachelor's degree study programme: Informatics Systems Faculty of Informatics

Curriculum

No.	Study course	Course code	ECTS Credits
I Year, I Semester			
1.	Mathematics 1	MAT1021	6
2.	Informatics (B group)	INFN1004	4
3.	Programming Fundamentals	INFN1003	6
4.	A-B group courses		14
		Total:	30
II Semester			
1.	Mathematics 2	MAT1021	6
2.	Discrete Structures and Mathematical Logic	INFN1006	4
3.	Object-Oriented Programming	INF1007	6
4.	A-B group courses		14
		Total:	30
II Year, III Semester			
1.	Graphics and Visualization	INF2044	5
2.	Computer Architecture and Operating Systems	INF3064	5
3.	Databases and Information Systems	INF2022	6
4.	Human Computer Interaction	INF3060	5
4.	A-B group courses		8
		Total:	29
IV Semester			
1.	Probability Theory and Mathematical Statistics	MAT1013	6
2.	C# and Data Structures	INF2043	5
3.	Computer Networks	INF3059	5
4.	Algorithm Analysis	INF2041	5
5.	A-B group courses		10
		Total:	31
Specialization ARTIFICIAL INTELLIGENCE SYSTEMS			
III Year, V Semester			
1.	Java Object-Oriented Programming Applications	INF3038	5
2.	Enterprise IT Management	INF3066	6
3.	Mathematical Programming	INF3003	6



4.	A-B group courses		6
5.	Elective course (1)		
	Coding and Compression	INF3004	6
	Cryptographic Data Security	INF3047	6
	E-Commerce	INF3046	6
		Total:	29

VI Semester

1.	Software Engineering	INF4019	6
2.	Internet Technologies	INF3002	6
3.	Artificial Intelligence Applications	INF3042	6
4.	Information Modelling	INF3037	6
5.	Dynamical System Modelling	INF3043	6
		Total:	30

IV Year, VII Semester

1.	Term Paper	INF4021	4
2.	Deep Learning System Design	INF4039	6
3.	English C1: For Physical Sciences	INF4049	3
4.	Robotics	INF3063	4
5.	Internet of Things Systems	INF4045	6
6.	Language Technologies	INF4036	4
7.	Elective course (1)		
8.	Mobile and Wireless Communications	INFN4011	4
9.	Information Technology Security	INF4012	4
10.	Cross-Platform System Engineering	INF4041	4
		Total:	31

VIII Semester

1.	Internship	INF4015	15
2.	Bachelor Thesis		15
		Total:	30
	Total for the Programme:		240

Specialization BUSINESS INFORMATICS

III Year, V Semester

1.	Java Object-Oriented Programming Applications	INF3038	5
2.	Enterprise IT Management	INF3066	6
3.	E-Commerce	INF3046	6
4.	A-B group courses		6
5.	Elective course (1)		
	Coding and Compression	INF3004	6
	Cryptographic Data Security	INF3047	6
	Social and Marketing Research	MAV3001	6
		Total:	29

VI Semester



1.	Software Engineering	INF4019	6
2.	Internet Technologies	INF3002	6
3.	Artificial Intelligence Applications	INF3042	6
4.	Strategic Management	VAD4005	6
5.	Computer System Administration	INF3012	6
		Total:	30

IV Year, VII Semester

1.	Term Paper	INF4021	4
2.	Deep Learning System Design	INF4039	6
3.	English C1: For Physical Sciences	INF4049	3
4.	Robotics	INF3063	4
5.	Digital Transformation and FinTech	INF3067	5
6.	Information Technology Security	INF4012	5
7.	Elective course (1)		
8.	Mobile and Wireless Communications	INFN4011	4
9.	Language Technologies	INF4036	4
10.	Cross-Platform Systems Engineering	INF4041	4
		Total:	31

VIII Semester

1.	Internship	INF4015	15
2.	Bachelor Thesis		15
		Total:	30
	Total for the Programme:		240

Specialization SOFTWARE SYSTEMS

III Year, V Semester

1.	Java Object-Oriented Programming Applications	INF3038	5
2.	Enterprise IT Management	INF3066	6
3.	Distributed IT Project Management	INF4040	6
4.	A-B group courses		6
5.	Elective course (1)		
	Coding and Compression	INF3004	6
	Cryptographic Data Security	INF3047	6
	E-commerce	INF3046	6
		Total:	29

VI Semester

1.	Software Engineering	INF4019	6
2.	Internet Technologies	INF3002	6
3.	Artificial Intelligence Applications	INF3042	6
4.	Information Modelling	INF3037	6
5.	Software Testing and Analysis	INF3035	6
		Total:	30

IV Year, VII Semester



1.	Term Paper	INF4021	4
2.	Deep Learning System Design	INF4039	6
3.	English C1: For Physical Sciences	INF4049	3
4.	Robotics	INF3063	5
5.	Formal Languages and Applications	INF4044	5
6.	Copyright and Digital Content Management	INF4033	4
7.	Elective course (1)		
8.	Mobile and Wireless Communications	INFN4011	4
9.	Information Technology Security	INF4012	4
10.	Cross-Platform Systems Engineering	INF4041	4
		Total:	31
VIII Semester			
1.	Internship	INF4015	15
2.	Bachelor Thesis		15
		Total:	30
	Total for the Programme:		240