

Information systems

1st year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5II107	Advanced Database Systems	2-0-2	5	DI
	5II115	Algorithms and Data structures 2	2-0-2	5	DMMOR
	5IN109	Network optimization	2-0-2	5	DMMOR
	5IN125	Communication Technologies	2-0-2	5	DCN
	5IP1H1	Project 1	0-2-4	5	G
	Elective subjects				
	5II132	Design Patterns	2-1-1	5	DI
	5UA117	Queuing Theory	2-0-2	5	DMMOR
	5IL107	Physical Education 7	0-2-0	1	IPE
5US104	Analysis of Processes	2-0-2	5	DST	
2	Core subjects				
	5IA102	Theory of Information	2-0-2	5	DMMOR
	5II108	Discrete simulation	2-0-2	5	DMMOR
	5II112	Data Mining	2-0-2	5	DI
	5IS108	Architecture of Information Systems	2-0-2	5	DCN
	5IP1H2	Project 2	0-2-4	5	G
	Elective subjects				
	5IA108	Metaheuristics	2-0-2	5	DMMOR
	5II136	Computers Graphic 3D	2-0-2	5	DMMOR
	5IE112	Prognostics	2-0-2	5	DMME
	5II130	Techniques of Programming 3	0-0-4	4	DMMOR
	5IL108	Physical Education 8	0-2-0	1	IPE
	5UA102	Game theory	2-2-0	5	DMMOR
5BA110	Scheduling and sequencing	2-2-0	5	DMMOR	

Data processing

Semester	Code	Subject	Hours per week	ECTS	Department
1	Additional subjects (choose at least one)				
	5BM125	Management 1	3-2-0	6	DMT
	5IE101	Theory of Enterprise	2-0-2	5	DMT
	5II113	Advanced object technologies	2-2-0	5	DST
	5UM111	Project Management	2-1-1	5	DMT
2	Additional subjects (choose at least one)				
	5II128	Database languages	2-0-2	5	DI
	5IS106	Geographical Information Systems	2-0-2	5	DMMOR
	5UI102	Reliability Theory	2-0-2	5	DI

Enterprise informatics

Semester	Code	Subject	Hours per week	ECTS	Department
1	Additional subjects (choose at least one)				
	5IE117	Econometric	2-0-2	5	DMME
	5IE115	Finance	2-2-0	5	DMME
	5BE105	Financial Accounting	2-2-0	5	DMME
	5BM125	Management 1	3-2-0	6	DMT
	5UM111	Project Management	2-1-1	5	DMT
2	Additional subjects (choose at least one)				
	5BE108	Macroeconomics	2-2-0	5	DMME
	5IE112	Prognostics	2-0-2	5	DMME
	5UI102	Reliability Theory	2-0-2	5	DI

This study program has for specializations - Distributed and parallel systems, Image data processing, Data processing and Enterprise informatics.

Distributed and parallel systems

Semester	Code	Subject	Hours per week	ECTS	Department
1	Additional subjects (choose at least one)				
	5BM125	Management 1	3-2-0	6	DMT
	5IS111	Parallel Architectures and Algorithms	2-0-2	5	DI
	5UM111	Project Management	2-1-1	5	DMT
2	Additional subjects (choose at least one)				
	5IA108	Metaheuristics	2-0-2	5	DMMOR
	5UI102	Reliability Theory	2-0-2	5	DI

Image data processing

Semester	Code	Subject	Hours per week	ECTS	Department
1	Additional subjects (choose at least one)				
	5BM125	Management 1	3-2-0	6	DMT
	5UM111	Project Management	2-1-1	5	DMT
	5II127	Computer graphics	2-0-2	5	DMMOR
2	Additional subjects (choose at least one)				
	5II138	Digital Image Processing	2-0-2	5	DIN
	5II136	Computers Graphic 3D	2-0-2	5	DMMOR

2nd year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5II117	Cryptography and Safety	2-0-2	5	DMMOR
	5IP1H4	Internship	0-0-0	5	G
	5IP1H1	Project 3	0-2-4	5	G
	Elective subjects				
	5IS109	Expert Systems	2-0-2	6	DMMOR
	5IL109	Physical Education 9	0-2-0	1	IPE
	5II123	Artificial Intelligence	2-0-2	5	DMMOR
4	Core subjects				
	5IL104	English language MSc.	0-0-0	3	ILE
	5IZ1H1	Master thesis	0-0-20	20	G
	5IZ1H2	State examination	0-0-0	10	G
	Elective subjects				
	5IS110	Programming of real-time systems	2-0-2	5	DI

Data processing

Semester	Code	Subject	Hours per week	ECTS	Department
3	Additional subjects (choose at least one)				
	5II121	Operating Systems	2-0-2	5	DI
	5BS113	Information Systems of Enterprise	2-0-2	5	DMT

Enterprise informatics

Semester	Code	Subject	Hours per week	ECTS	Department
3	Additional subjects (choose at least one)				
	5II101	Fuzzy Sets and Neural Networks	2-0-2	5	DMMOR
	5BS113	Information Systems of Enterprise	2-0-2	5	DMT

Distributed and parallel systems

Semester	Code	Subject	Hours per week	ECTS	Department
3	Additional subjects (choose at least one)				
	5IS107	Parallel Programming	2-0-2	5	DI

Image data processing

Semester	Code	Subject	Hours per week	ECTS	Department
3	Additional subjects (choose at least one)				
	5II101	Fuzzy Sets and Neural Networks	2-0-2	5	DMMOR
	5II129	Programming in OpenGL	2-0-2	5	DMMOR

Computer engineering

1st year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5IH109	Digital Signal Processing 1	2-0-2	5	DTC
	5IP1P1	Project 1	0-2-4	5	G
	5IH113	Technical Means of Control and Information Systems	2-0-2	5	DTC
	5IH111	Introduction to the Theory of Discrete Systems	2-2-0	5	DTC
	Additional subjects (choose at least one)				
	5II121	Operating Systems	2-0-2	5	DI
	5IS111	Parallel Architectures and Algorithms	2-0-2	5	DI
	5IH117	Interconnected embedded systems	3-0-1	5	DTC
	Elective subjects				
	5II119	Computer Speech Recognition	2-0-2	5	DTC
5IL107	Physical Education 7	0-2-0	1	IPE	
2	Core subjects				
	5IH102	Design of the Customer Integrated Circuits	2-0-2	5	DTC
	5IH106	Digital Data Transmission	2-0-2	5	DTC
	5IP1P2	Project 2	0-2-4	5	G
	Additional subjects (choose at least one)				
	5IH108	Digital Signal Processing 2	2-0-2	5	DTC
	5IA102	Theory of Information	2-0-2	5	DMMOR
	Elective subjects				
	5II140	Applications of Artificial Intelligence Methods	2-0-2	4	DTC
	5UI126	Electronic Processing and Documents Presentation	2-0-2	4	DMMOR
	5IL108	Physical Education 8	0-2-0	1	IPE
5BA110	Scheduling and sequencing	2-2-0	5	DMMOR	
5IH110	Selected Methods of Signals Compressions	2-0-2	5	DTC	

2nd year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5IN125	Communication Technologies	2-0-2	5	DCN
	5IP1P4	Internship	0-0-0	5	G
	5IP1P3	Project 3	0-2-4	5	G
	Additional subjects (choose at least one)				
	5II117	Cryptography and Safety	2-0-2	5	DMMOR
	5II113	Advanced object technologies	2-2-0	5	DST
	Elective subjects				
	5IH115	Applications of the microprocessors implemented into the FPGA devices	2-0-2	6	DTC
5IL109	Physical Education 9	0-2-0	1	IPE	
4	Core subjects				
	5IL104	English language MSc.	0-0-0	3	ILE
	5IZ1P1	Master thesis	0-0-20	20	G
	5IZ1P2	State examination	0-0-0	10	G
	Elective subjects				
5II112	Data Mining	2-0-2	5	DI	

Information management

1st year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5IM127	Logistic	3-1-0	5	DMT
	5IE105	Management Accounting	2-2-0	5	DMME
	5IM121	Marketing Control	2-2-0	5	DMT
	5IP1M1	Project 1	0-2-4	6	G
	Additional subjects (choose at least one)				
	5IE117	Econometric	2-0-2	5	DMME
	5IM131	Process management	2-2-0	4	DST
	5US103	Software engineering	2-0-2	5	DI
	5IM129	Research in management	2-1-1	4	DMT
	Elective subjects				
5IL107	Physical Education 7	0-2-0	1	IPE	
2	Core subjects				
	5UM122	Managerial Communication	2-2-0	5	DMT
	5IM122	Managerial Information Systems	2-0-2	5	DMT
	5IM128	Managerial Decision-Making	2-2-0	5	DMT
	5IM126	International Management and Marketing	2-2-0	5	DMT
	5IP1M2	Project 2	0-2-4	5	G
	Additional subjects (choose at least one)				
	5IS108	Architecture of Information Systems	2-0-2	5	DCN
	5IM134	Innovation Management	2-2-0	4	DMT
	5IM130	Human Potential Motivating	2-2-0	4	DMT
	5IE112	Prognostics	2-0-2	5	DMME
	Elective subjects				
	5IE106	Capital and investment theory	2-2-0	4	DMME
5IL108	Physical Education 8	0-2-0	1	IPE	

2nd year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5IM117	Organizational Behaviour	2-2-0	5	DMT
	5IP1M3	Project 3	0-2-4	5	G
	5UM111	Project Management	2-1-1	5	DMT
	5IM109	Strategic Management	2-0-2	5	DMT
	Additional subjects (choose at least one)				
	5BA117	Data, Information, Knowledge	2-0-2	5	DMME
	5IM133	Financial Management	2-2-0	4	DMME
	5IM111	Management Games and Simulations	1-0-2	4	DMME
	Elective subjects				
5IL109	Physical Education 9	0-2-0	1	IPE	
4	Core subjects				
	5IL106	Foreign language MSc.	0-0-0	3	ILE
	5IZ1P1	Master thesis	0-0-20	20	G
	5IM132	Information Management	2-0-2	5	DMT
	5IP1M4	Internship	0-0-0	5	G
	5IZ1P2	State examination	0-0-0	10	G
	Elective subjects				
	5IS106	Geographical Information Systems	2-0-2	5	DMMOR
5IM112	Quantitative Methods in Logistics	2-0-2	5	DMMOR	

Computer engineering

1st year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5IN135	Access Networks	2-0-2	5	FEE
	5UI101	Programming Languages for Embedded Systems	2-0-2	5	DI
	5IP1S1	Project 1	0-2-4	5	G
	5IS115	Network Operating Systems	2-0-3	6	DIN
	5IN137	Communication Theory	3-0-3	7	DIN
	Elective subjects				
	5IN139	Advanced Routing in Infocom Networks	2-0-4	6	DIN
	5IL107	Physical Education 7	0-2-0	1	IPE
2	Core subjects				
	5IN122	Network Algorithmic	2-0-2	5	DIN
	5IP1S2	Project 2	0-2-4	5	G
	5IN116	Design of Networks 1	2-0-4	7	DIN
	5IN110	Theory of Networks	4-0-4	10	DIN
	Elective subjects				
	5IN124	Advanced Switching in Infocom Networks	2-0-5	6	DIN
	5IL108	Physical Education 8	0-2-0	1	IPE

2nd year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5II117	Cryptography and Safety	2-0-2	5	DMMOR
	5IN131	Optimizing Converged Networks	2-0-4	7	DIN
	5IP1S4	Internship	0-0-0	5	G
	5IP1P3	Project 3	0-2-4	5	G
	5IP111	Design of Networks 2	2-0-0	4	DIN
	Elective subjects				
	5IL109	Physical Education 9	0-2-0	1	IPE
4	Core subjects				
	5IL104	English language MSc.	0-0-0	3	ILE
	5IZ1S1	Master thesis	0-0-20	20	G
	5IZ1P2	State examination	0-0-0	10	G
	5IN114	Networks Integration	2-0-3	6	DIN

Intelligent information systems

1st year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5II115	Algorithms and Data structures 2	2-0-2	5	DMMOR
	5IN109	Network optimization	2-0-2	5	
	5II107	Advanced Database Systems	2-0-2	5	DI
	5IP111	Project 1	0-2-1	5	G DMMOR
	Additional subjects (choose at least one)				
	5IA111	Computational modeling of systems	2-0-2	5	DMMOR
	5IE101	Theory of Enterprise	2-0-2	5	DMT
	Elective subjects				
	5US104	Analysis of Processes	2-0-2	5	DST
	5UA117	Queuing Theory	2-0-2	5	DMMOR
	5IL107	Physical Education 7	0-2-0	1	IPE
2	Core subjects				
	5IS108	Architecture of Information Systems	2-0-2	5	DCN
	5II108	Discrete simulation	2-0-2	5	DMMOR
	5IS106	Geographical Information Systems	2-0-2	5	DMMOR
	5IA108	Metaheuristics	2-0-2	5	DMMOR
	5IP112	Project 2	0-2-4	5	G
	Additional subjects (choose at least one)				
	5II112	Data Mining	2-0-2	5	DI
	5IA110	Implementation of Optimization Algorithms	2-0-2	5	DMMOR
	Elective subjects				
	5IS110	Programming of real-time systems	2-0-2	5	DI
	5II130	Techniques of Programming 3	0-0-4	4	DMMOR
	5IL108	Physical Education 8	0-2-0	1	IPE
	5UA102	Game theory	2-2-0	5	DMMOR
5BA110	Scheduling and sequencing	2-2-0	5	DMMOR	
5UI102	Reliability Theory	2-0-2	5	DI	

2nd year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5II101	Fuzzy Sets and Neural Networks	2-0-2	5	DMMOR
	5II117	Cryptography and Safety	2-0-2	5	DMMOR
	5IP114	Internship	0-0-0	5	G
	5IP113	Project 3	0-2-4	5	G
	Additional subjects (choose at least one)				
	5II132	Design Patterns	2-1-1	5	DI
	5UM111	Project Management	2-1-1	5	DMT
	Elective subjects				
	5IS109	Expert Systems	2-0-2	6	DMMOR
5IL109	Physical Education 9	0-2-0	1	IPE	
4	Core subjects				
	5IL104	English language MSc.	0-0-0	3	ILE
	5IZ1P1	Master thesis	0-0-20	20	G
	5IZ1P2	State examination	0-0-0	10	G