Group	Course	Study program	ECTS	SEM
	Mathematics I	RI_ETF_UNBL	7	1
	Linear algebra and geometry	RI_ETF_UNSA	5	1
	Mathematics I	DI ETE LINITA	6	1
Mathematics – algebra	Matrix methods in electrical engineering	RI_ETF_UNTZ	6	3
80%	-	IT_FIT_UNMO	-	-
	Introduction to algebra		7	1
	Analytical geometry	INF_PMF_UNBL	5	1
	Linear algebra		7	2
	Mathematics II	RI_ETF_UNBL	7	2
	Engineering mathematics I		7	1
	Engineering mathematics II	RI_ETF_UNSA	7	2
Mathematics – analysis	Mathematics II	RI_ETF_UNTZ	6	2
	Engineering mathematics	IT FIT UNMO	7	1
	Differential and integral calculus 1	INF_PMF_UNBL	6	1
	Differential and integral calculus 2		7	2
	Discrete mathematics	RI_ETF_UNBL	5	3
	Mathematical logic and theory of calculability	RI_ETF_UNSA	7	2
	Discrete mathematics		5	3
Discrete mathematics	Mathematics III	RI_ETF_UNTZ	6	3
	Discrete mathematics	IT_FIT_UNMO	7	2
	Mathematical logic	INF_PMF_UNBL	6	3
	Discrete mathematics		6	4
	Mathematics IV	RI_ETF_UNBL	6	4
	Probability and statistics	RI_ETF_UNSA	5	2
<b>Probability and statistics</b>	Mathematics III	RI_ETF_UNTZ	6	3
	Applied statistics	IT FIT UNMO	6	4
	Probability and statistics	INF PMF UNBL	7	3
	Operational research	RI_ETF_UNBL	5	6*
	Numeric algorithms		5	3*
Applied mathematics	Basics of operational research	RI_ETF_UNSA	5	5
60%	Matrix methods in electrical engineering	6	3	
	Numeric methods in electrical engineering	RI_ETF_UNTZ	6	4*

Group	Course	Study program	ECTS	SEM
	Optimization methods in electrical engineering		6	5*
	-	IT_FIT_UNMO	-	-
	-	INF_PMF_UNBL	-	-
	Physics	RI_ETF_UNBL	7	2
	Engineering physics 1	RI_ETF_UNSA	5	1
Physics Physics	Physics I		6	1
60%	Physics II	RI_ETF_UNTZ	6	2
	-	IT FIT UNMO	-	-
	-	INF_PMF_UNBL	-	-
	Basics of electrical engineering I	<u> </u>	7	1
	Basics of electrical engineering II	DI ETE IINDI	8	2
	Circuits and signals	RI_ETF_UNBL	5	3*
	Basics of electronics and digital technique		6	3
Electrical engineering and electronics	Basics of electrical engineering	RI_ETF_UNSA	7	1
60%	Basics of electrical engineering I	RI_ETF_UNTZ	7	1
	Basics of electrical engineering II		7	2
	Basics of electronics		6	3
	-	IT_FIT_UNMO	-	-
	-	INF_PMF_UNBL	-	-
	English language I	RI_ETF_UNBL -	3	5
	English language II		3	6
	-	RI_ETF_UNSA	-	-
Continue to a series	-	RI_ETF_UNTZ	-	-
English language	English language I	IT_FIT_UNMO	3	2
60%	English language II		4	3
	English language III		3	4
	English language 1	2	2	2
	English language 2	INF_PMF_UNBL	2	3
	Basics of computer science techniques	RI_ETF_UNBL	7	1
Basics of computer science	-	RI_ETF_UNSA	-	-
80%	Basics of computer science	DI CTC !!N!T7	6	1
Ţ	Application of engineering and software packages	RI_ETF_UNTZ	6	4

Group	Course	Study program	ECTS	SEM
	Information technologies	IT_FIT_UNMO	7	1
	Introduction to computer science 1	- INF_PMF_UNBL	6	1
	Introduction to computer science 2	INI_FIVII_ONBL	7	2
	Programing I	RI_ETF_UNBL	6	1
	Programing II		8	2
	Basics of computer science	RI_ETF_UNSA	6	1
Structured programing	Basics of programing	RI_ETF_UNTZ	6	2
	Programing 1	IT_FIT_UNMO	7	1
	Introduction to programing	INF_PMF_UNBL	6	1
	Procedural programing	INI_FIVII_ONBL	7	4
	Program languages 1	RI_ETF_UNBL	7	3
	Techniques of programing	RI_ETF_UNSA	6	2
Object oriented programing	Object oriented programing	RI_ETF_UNTZ	6	3
Object oriented programing	Programing 2	IT_FIT_UNMO	7	2
	Programing 3		7	3
	Object oriented programing	INF_PMF_UNBL	7	4
	Structures of data and algorithms	RI_ETF_UNBL	7	3
	Algorithms and structures of data	RI_ETF_UNSA	5	3
	Introduction to computer algorithms	RI_ETF_UNTZ	6	4
Algorithms and structure of data	Structures of data		6	4
	Algorithms and structures of data	IT_FIT_UNMO	6	3
	Structures of data and algorithms	INF_PMF_UNBL	8	3
	Analysis and design of algorithm		6	4
	Basics of operating systems	RI_ETF_UNBL	5	4
	Selected chapters from operating systems		5	5(SI)
	Operating system for the work in real time		5	5(RI)
Operating systems and systemic	Operating systems	RI_ETF_UNSA 5	5	2
programing -	Systemic programing		5	3*
	Operating systems	6	6	5
	Systemic programing	RI_ETF_UNTZ	6	8

Group	Course	Study program	ECTS	SEM
	Operating systems	IT_FIT_UNMO	7	2
	Introduction to operating systems	INF_PMF_UNBL	6	4
	Computer architecture		6	5
	Basics of electronics and digital technique	RI_ETF_UNBL	6	3(SI)
	Logical design	RI_ETF_UNSA	5	3
	Computer architecture	NI_ETF_UNSA	5	4
Computer architecture	Sequential circuits		6	4*
	Designing of logical systems	RI_ETF_UNTZ	6	4*
	Computer architecture		6	4
	Computer architecture	IT_FIT_UNMO	7	1
	Introduction to computer architecture	INF_PMF_UNBL	7	2
	Basics of communications and theory of information	DI ETE LINDI	5	4
	Computer networks	RI_ETF_UNBL	5	5
	Basics of computer networks	RI_ETF_UNSA	5	4
	Administration of computer networks		4	6*
Computer networks	Computer networks	RI_ETF_UNTZ	6	6
	Computer networks	IT_FIT_UNMO	6	2
	Communication technologies		6	3*
	Systemic and network administration 1		6	3*
	Introduction to computer networks	INF_PMF_UNBL	6	5
	Databases	RI_ETF_UNBL	6	6
	Basics of databases	RI_ETF_UNSA	5	3
	Databases	RI_ETF_UNTZ	6	5
	Databases 1	7 IT_FIT_UNMO 7 7	7	3
<u>Databases</u>	Databases 2		7	4
	Business intelligence		7	5*
	Databases		7	5
	Logical designing of databases	INF_PMF_UNBL	11	6
Formal methods	Formal methods in software engineering	RI_ETF_UNBL	7	4(SI)
60%	Automates and formal languages	RI_ETF_UNSA	5	4

Group	Course	Study program	ECTS	SEM
	-	RI_ETF_UNTZ	-	-
	-	IT_FIT_UNMO	-	-
	Theory of formal languages	INF_PMF_UNBL	6	5
	Program languages 2	RI_ETF_UNBL	6	4
	Program languages and translators	RI_ETF_UNSA	5	5*
rogram languages and translators	Design of compilers	RI_ETF_UNTZ	6	7
80%	-	IT_FIT_UNMO	-	-
	Program languages	INF_PMF_UNBL	6	5
	Construction of compilers	INI_FIVII_ONDE	11	6
	Basics of software engineering		5	3
	Engineering of software requests	RI_ETF_UNBL	5	5
	Designing of software	6	6	6
Software engineering	Software engineering	RI_ETF_UNSA	5	6
80%	Object oriented analysis and design		5	4
50%	Design and architecture of software systems		4	6*
	-	RI_ETF_UNTZ	-	-
	Analysis and design of software	IT_FIT_UNMO	7	4
	Software engineering	INF_PMF_UNBL	7	8*
	Network and distribution programing		5	6(S
	Programing in real time		5	6(R
	Mobile computer science	RI_ETF_UNBL	6	8*
	Interaction humans – computers	6	7	
	Development of program solutions	5	3	
Software development	Development of mobile applications	RI_ETF_UNSA	5	4*
Software development	Software development	RI_ETF_UNTZ 6 6	6	6
	Windows programing		6	
	Software development 1		7	5
	Software development 2	IT_FIT_UNMO	6	6
	Development of user interface		4	6*
F	Teaching methods of computer science 2	INF_PMF_UNBL	12	8

Group	Course	Study program	ECTS	SEM
	Internet technologies	- RI_ETF_UNBL	5	6
	Internet programing		6	7
	Web technologies	RI_ETF_UNSA	5	5
Internet technologies and programing	Technologies for support to technical writing	DI ETE LINITZ	5	1
	Development of web application	RI_ETF_UNTZ	6	8
	Web development and design	IT_FIT_UNMO	7	4
	Internet programing	INF_PMF_UNBL	5	4
	Project management	RI_ETF_UNBL	4	8
D. C.	Structure of software project	RI_ETF_UNSA	4	6*
Project management 60%	-	RI_ETF_UNTZ	-	1
60%	Project management	IT_FIT_UNMO	7	5
	-	INF_PMF_UNBL	-	-
	Information systems	RI_ETF_UNBL	6	7(SI)
	Designing of information systems in internet		6	8*
	environment			
	Electronic business operation		6	8*
	Basics of information systems	RI_ETF_UNSA	5	5
Information systems	Designing of information systems		5	6
	Business web systems		5	5*
	Designing of telecommunication systems	RI_ETF_UNTZ	6	8*
	Development of information systems	IT_FIT_UNMO	7	5
	Information systems	INF_PMF_UNBL	7	7
	Computer graphics	RI_ETF_UNBL	4	8*
Computer graphics and visualization	Computer graphics	RI_ETF_UNSA	5	5
	CAD-CAM engineering		5	4*
	Computer graphics	RI_ETF_UNTZ	6	6
	Computer graphics	IT_FIT_UNMO	4	6*
	Algorithms of computer geometry	INF_PMF_UNBL	7	8*

Group	Course	Study program	ECTS	SEM
·	Basics of digital processing of signal		5	6
	Digital processing of image		6	7*
	Multimedia signals and systems	RI_ETF_UNBL	6	8*
	Program support to digital television		6	8*
	Systems for digital processing of signal		6	7(RI)
Processing of signal and image	Digital processing of signal	RI_ETF_UNSA	5	4*
80%	Signals and systems		6	3
	Digital processing of signal	DI ETE LINITA	6	5*
	Multimedia systems and communications	RI_ETF_UNTZ	6	8*
	Processing and analysis of medicinal image		6	8*
	-	IT_FIT_UNMO	-	-
	Multimedia systems	INF_PMF_UNBL	7	8*
	Methods of artificial intelligence	RI_ETF_UNBL	6	7*
	Artificial intelligence	RI_ETF_UNSA	5	6
Artificial intelligence	Intelligent systems	RI_ETF_UNTZ	6	8*
80%	-	IT_FIT_UNMO	-	-
	Introduction to artificial intelligence	INF_PMF_UNBL	7	7
	Designing of digital systems		6	7(RI)
	Microcontroller systems		6	7(RI)
	Designing of applied computer structures	01 575 110101	6	8*
	Integrated computer systems	RI_ETF_UNBL	6	8
	Data acquisition		6	8*
Embedded systems	Management in real time		6	7(RI)
80%	Integrated systems	RI_ETF_UNSA 5	5	4*
	Designing and synthesis of digital systems		4	6*
	Designing of microprocessor systems		6	6*
	Designing systems on chip	RI_ETF_UNTZ	7	6*
	-	IT_FIT_UNMO	-	-
	Microcomputers and computer architecture	INF_PMF_UNBL	7	8*
Modeling and simulation 40%	-	RI_ETF_UNBL	-	-
	Computer modeling and simulation	RI_ETF_UNSA	5	5*
	Modeling of system	RI_ETF_UNTZ	6	5

Group	Course	Study program	ECTS	SEM
	Simulation of system		6	6
	-	IT_FIT_UNMO	-	-
	-	INF_PMF_UNBL	-	-
	Performances of computer systems	DI ETE LINDI	5	6
(autication validation and afterna	Testing and quality of software	RI_ETF_UNBL	6	7*
rerification, validation, and software	Verification and validation of software	RI_ETF_UNSA	5	5*
quality control 60%	-	RI_ETF_UNTZ	-	-
00%	Introduction to security of software quality	IT_FIT_UNMO	7	5*
	-	INF_PMF_UNBL	-	1
	Cryptography and computer protection	DI ETE LINIDI	6	5
	Security at internet	- RI_ETF_UNBL	6	7*
	-	RI_ETF_UNSA	-	-
Computer security and protection	-	RI_ETF_UNTZ	-	1
40%	Security of information systems	IT_FIT_UNMO	5	6
	Digital forensics		5	6
	-	INF_PMF_UNBL	-	-
	Basics of automated management systems	- RI_ETF_UNBL	5	6(RI)
	Robotics		6	7(RI)
Automated management	-	RI_ETF_UNSA	-	-
40%	Linear systems of automated management 1	RI_ETF_UNTZ	6	7
	-	IT_FIT_UNMO	-	-
	-	INF_PMF_UNBL	-	1
	Final thesis	RI_ETF_UNBL	8	8
Final thesis	Final thesis	RI_ETF_UNSA	12	6
	Final thesis	RI_ETF_UNTZ	6	8
	Final thesis	IT_FIT_UNMO	10	6
	Final thesis	INF_PMF_UNBL	4	8