

## Informatics

### 1<sup>st</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5BF101	Algebra	2-2-0	5	DMMOR
	5BI137	Informatics 1	2-2-2	7	DST
	5BF115	Mathematics for Informatics	2-2-0	7	DST
	5BL133	Introduction to studies	2-0-2	3	DIN
	5BE101	Basics of Economic Theory	2-2-0	5	DMME
	Elective subjects				
	5BS121	Introduction to Operating Systems	0-2-0	5	DI
	5BI111	Practice of Programming 1	0-0-2	1	DST
	5BL115	Foreign Language	0-2-0	3	FHSc_DL
	5BL109	Physical Education	0-0-2	1	IPE
2	Core subjects				
	5BA126	Algorithmic Graphs Theory	2-2-0	5	DMMOR
	5BA124	Discrete Probability	2-2-1	6	DMMOR
	5BE104	Economic and Law Aspects of Business	2-2-0	5	DMME
	5BI138	Informatics 2	2-2-2	7	DI
	5BN110	Principles ICS	2-0-2	5	DIN
	Elective subjects				
	5BF116	Practice of Mathematics	0-2-0	1	DMMOR
	5BI136	Practice of Programming 2	0-0-2	1	DI
	5BI158	Linux - Basics	0-0-2	2	DIN
	5BL116	Foreign Language	0-2-0	3	FHSc_DL
5BL110	Physical Education	0-0-2	1	IPE	
5BL144	Physical Education Training Camp 1	0-1-0	2	IPE	

2<sup>nd</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5BI139	Informatics 3	2-1-2	6	DST
	5BH101	Logical Systems	2-0-2	5	DTC
	5BF117	Mathematical Analysis 1	2-2-1	6	DMMOR
	5BI125	Assembly languages	2-0-2	5	DMMOR
	Additional subjects (choose at least one)				
	5BN103	Computer Networks 1	2-0-4	5	DIN
	5US104	Analysis of Processes	2-0-2	5	DST
	Elective subjects				
	5BE109	Economy of Enterprise	2-1-0	5	DMME
	5BI145	Graphics in Computers Applications	1-0-3	4	DIN
	5BI133	Spreadsheets	2-0-2	4	DI
	5BL117	Foreign Language	0-2-0	3	FHSc_DL
	5BE117	Small and Medium Entrepreneurship	2-2-0	5	DMT
	5BE121	Profession: Entrepreneur 1	1-2-0	2	DMME
	5BN113	Basics of Network Theory 1	2-0-2	6	DIN
5BS111	UNIX - Development Environment	1-0-3	4	DMMOR	
5BL111	Physical Education 3	0-0-2	1	IPE	
5BL137	Physical Education Training Camp 2	0-1-0	2	IPE	
4	Core subjects				
	5UI124	Algorithms and Data Structures 1	2-0-2	5	DMMOR
	5BH118	Digital Computers	3-0-1	5	DTC
	5BI106	Database Systems	2-0-2	5	DI
	5BA122	Discrete Optimisation	2-0-2	5	DMMOR
	Additional subjects (choose at least one)				
	5BF114	Mathematical Analysis 2	2-2-1	6	DMMOR
	5BN104	Computer Networks 2	3-0-1	5	DIN
	5BA130	Probability and Statistic	2-0-2	5	DMMOR
5BI146	Software Modelling	2-0-2	5	DST	

Elective subjects					
	5BI144	Animation in Computers Applications	1-0-3	4	DIN
	5UI126	Electronic Processing and Documents Presentation	2-0-2	4	DMMOR
	5BE108	Macroeconomics	2-2-0	5	DMME
	5BI152	Metaprogramming	2-0-2	5	DST
	5BA108	Numerical Methods	2-0-2	3	DMMOR
	5BE122	Profession: Entrepreneur 2	1-2-0	3	DMME
	5BL142	Sociology	1-2-0	5	DMT
	5BI148	Techniques of Programming 1	0-0-4	4	DI
	5BL118	Foreign Language 4	0-2-0	3	FHSc_DL
	5BL112	Physical Education 4	0-0-2	1	IPE

**3<sup>rd</sup> year of study**

Semester	Code	Subject	Hours per week	ECTS	Department	
5	Core subjects					
		5UA113	Modelling and Simulation	2-0-2	5	DMMOR
		5BS101	Operational Systems	2-0-2	5	DI
		5US103	Software Engineering	2-0-2	5	DI
		5US109	Development of web application and Intranet	2-0-2	5	DST
	Additional subjects (choose at least one)					
		5BA117	Data, Information, Knowledge	2-0-2	5	DMME
		5BA119	Modelling and Optimization	2-0-2	5	DMMOR
		5BN111	Computer Networks 3	2-0-2	5	DIN
	Elective subjects					
		5BI131	Database systems - Access	2-0-2	4	DI
		5BF119	Mathematical analysis 3	2-2-1	6	DMMOR
		5US107	Multimedia information systems	2-0-2	6	DMMOR
		5BE107	Corporate Finance	2-2-0	5	DMME
		5BH121	Technical Components of PC	0-0-2	3	DTC
		5BI151	Techniques of Programming 2	0-0-3	4	DMMOR

	5BL113	Physical Education 5	0-2-0	1	IPE
	5BI129	Basic Programming in Windows	2-0-2	4	DST
	5BN115	Basics of Networks Theory 2	2-0-2	6	DIN
<b>6</b>	Core subjects				
	5BZ001	Bachelor Project	0-0-8	12	G
	5BL140	English Language 1	0-0-0	3	ILE
	5BP113	Internship	0-0-0	5	G
	Elective subjects				
	5BA110	Scheduling and sequencing	2-2-0	5	DMMOR
	5BI110	Advanced application development	2-0-2	6	DI
	5BI122	Software tools for Engineers (Open Source)	1-0-3	4	DMMOR
	5BL114	Physical Education 6	0-2-0	1	IPE
	5BS104	Information and Control Systems in Transport	2-0-1	3	DST
	5BS112	Unix Implementations - LINUX	2-0-2	6	DMMOR
	5UA102	Game theory	2-2-0	5	DMMOR
	5UI102	Reliability Theory	2-0-2	5	DI
	5UM122	Managerial Communication	2-2-0	5	DMT

## Computer engineering

1<sup>st</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5BF101	Algebra	2-2-0	5	DMMOR
	5BI137	Informatics 1	2-0-4	7	DST
	5BF117	Mathematical Analysis 1	2-2-1	6	DMMOR
	5BE101	Basics of Economic Theory	2-2-0	5	DMME
	5BF105	Basics of Physics	3-1-1	6	FEE
	Elective subjects				
	5BF109	Practice of Mathematics	0-2-0	1	DMMOR
	5BI111	Practice of Programming 1	0-0-2	1	DI
	5BL115	Foreign Language 1	0-2-0	3	ILE
5BL109	Physical Education 1	0-0-2	1	IPE	
2	Core subjects				
	5BF104	Electrical Circuits	2-2-0	5	DTC
	5BI138	Informatics 2	2-0-4	7	DST
	5BF114	Mathematical Analysis 2	2-2-1	6	DMMOR
	5BA130	Probability and Statistics	2-2-0	5	DMMOR
	5BN110	Principles ICS	2-0-2	5	DIN
	Elective subjects				
	5BL116	Foreign Language 2	0-2-0	3	ILE
	5BI158	Linux - Basics	0-0-2	2	DIN
	5BI136	Practice of Programming 2	0-0-2	1	DI
5BL110	Physical Education 2	0-0-2	1	IPE	
5BL144	Physical Education Training Camp 1	0-1-0	2	IPE	

2<sup>nd</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5BF107	Electronics	2-0-2	5	DTC
	5BH101	Logical Systems	2-0-2	5	DTC
	5BI125	Assembly Language Programming	2-0-2	5	DMMOR
	Additional subjects (choose at least one)				
	5BF119	Mathematical analysis 3	2-2-1	6	DMMOR
	5BI139	Informatics 3	2-1-2	6	DST
	5BN103	Computer Networks 1	2-0-4	5	DIN
	Elective subjects				
	5BE121	Profession: Entrepreneur 1	1-2-0	2	DMME
	5BI145	Graphics in Computers Applications	1-0-3	4	DIN
	5BL115	Foreign Language 1	0-2-0	3	ILE
	5BL109	Physical Education 1	0-0-2	1	IPE
	5BL137	Physical Education Camp 2	0-1-0	2	IPE
5BN113	Basics of Networks Theory 1	2-0-2	6	DIN	
4	Core subjects				
	5BH102	Messurement	2-0-2	5	DTC
	5BH105	Electronic systems	2-0-2	5	DTC
	5BH108	Automatic control theory 1	2-1-1	5	DTC
	5BH118	Digital Computers	3-0-1	5	DTC
	5BL104	Economic and law aspects of business	2-2-0	5	DMME
	5BL140	English language Bc	0-0-0	3	ILE
	Additional subjects (choose at least one)				
	5BH124	Elements of Automation systems	2-0-2	5	DTC
	5BI106	Database Systems	2-0-2	5	DI
	5BN104	Computer Networks 2	3-0-1	5	DIN
	Elective subjects				
	5BL118	Foreign Language 4	0-2-0	3	ILE
5BL142	Sociology	1-2-0	5	DMT	

	5UI126	Electronic Processing and Documents Presentation	2-0-2	4	DMMOR
	5BL112	Physical Education 4	0-0-2	1	IPE
	5BA108	Numerical Methods	2-0-2	3	DMMOR
	5BE122	Profession: Entrepreneur 2	1-2-0	3	DMME
	5BF110	Functions of Complex Variable and Integral Transformation	2-1-1	4	DMMOR
	5BI144	Animation in Computers Applications	1-0-3	4	DIN

3<sup>rd</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
5	Core subjects				
	5BH104	Digital Systems	2-0-2	5	DTC
	5BH119	Construction and Manufacturing of Electronical devices	1-0-3	4	DTC
	5BS101	Operational Systems	2-0-2	5	DI
	Additional subjects (choose at least one)				
	5BH113	Microcomputers and Applications	1-0-3	6	DTC
	5BI129	Basic Programming in Windows	2-0-2	4	DST
	5BS111	UNIX - Development Environment	1-0-3	4	DMMOR
	5US109	Development of web application and Intranet	2-0-2	5	DST
	Elective subjects				
	5BE117	Small and Medium Entrepreneurship	2-2-0	5	DMT
	5BH121	Technical Components of PC	0-0-2	3	DTC
	5BI107	Algorithms and Complexity	2-0-0	3	DI
	5BI131	Database systems - Access	2-0-2	4	DI
	5BL113	Physical Education 5	0-2-0	1	IPE
	5BN111	Computer Networks 3	2-0-2	5	DIN
	5BN115	Basics of Networks Theory 2	2-0-2	6	DIN
5US107	Multimedia information systems	2-0-2	6	DMMOR	

<b>6</b>	Core subjects				
	5BH120	Computer Engineering	2-0-4	7	DTC
	5BL140	English language Bc	0-0-0	3	ILE
	5BZ1P1	Bachelor Project	0-0-8	12	G
	5BP1P3	Internship	0-0-0	5	G
	Additional subjects (choose at least one)				
	5BI110	Advanced application development	2-0-2	6	DI
	Elective subjects				
	5BI154	Mobile application development	2-0-2	5	DST
	5BL114	Physical Education 6	0-0-2	1	IPE
	5BS104	Information and Control Systems in Transport	2-0-1	3	DST
	5BS112	Unix Implementations - LINUX	2-0-2	6	DMMOR
	5UI102	Reliability Theory	2-0-2	5	DI
5UM122	Managerial Communication	2-2-0	5	DMT	



## Management

1<sup>st</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
1	Core subjects				
	5BE123	General Theory of Economics	2-2-0	5	DMME
	5BF101	Algebra	2-2-0	5	DMMOR
	5BI147	Informatics for Managers 1	2-0-2	5	DI
	5BM121	Management Presentation Skills	2-2-0	5	DMT
	5BM125	Management 1	3-2-0	6	DMT
	Additional subjects (choose at least one)				
	5BL103	Legal aspects of business 1	2-2-0	5	DMME
	Elective subjects				
	5BF109	Practice of Mathematics	0-2-0	1	DMMOR
	5BI111	Practice of Programming 1	0-0-2	1	DST
	5BL109	Physical Education 1	0-0-2	1	IPE
	5BL115	Foreign Language 1	0-2-0	3	ILE
2	Core subjects				
	5BE116	Business Economy	2-2-0	5	DMME
	5BE118	Marketing	2-2-0	5	DMT
	5BI142	Informatics for Managers 2	2-0-2	5	DI
	Additional subjects (choose at least one)				
	5BL146	Legal aspects of business 1	2-2-0	5	DMME
	5UI126	Electronic Processing and Documents Presentation	2-0-2	4	DMMOR
	Elective subjects				
	5BI136	Practice of Programming 2	0-0-2	1	DI
	5BI158	Linux - Basics	0-0-2	2	DIN
	5BL110	Physical Education 2	0-0-2	1	IPE
	5BL116	Foreign Language 2	0-2-0	3	ILE
	5BL144	Physical Education Training Camp 1	0-1-0	2	IPE

2<sup>nd</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
3	Core subjects				
	5BE105	Financial Accounting	2-2-0	5	DMME
	5BE107	Corporate Finance	2-2-0	5	DMME
	5BF117	Mathematical Analysis 1	2-2-1	6	DMMOR
	5BL106	Psychology	2-2-0	5	DMT
	Additional subjects (choose at least one)				
	5BE125	Quality Management	2-2-0	5	DMT
	5BM123	Marketing Communication	2-2-0	4	DMME
	5UE115	Taxes and Budget	2-2-0	4	DMME
	Elective subjects				
	5BI131	Database systems - Access	2-0-2	4	DI
	5BI133	Spreadsheets	2-0-2	4	DI
	5BI145	Graphics in Computers Applications	1-0-3	4	DIN
	5BL111	Physical Education 3	0-0-2	1	IPE
	5BL117	Foreign Language 3	0-2-0	3	ILE
	5BL137	Physical Education Camp 2	0-1-0	2	IPE
5IL101	Forensics 1	2-1-0	4	DE	
4	Core subjects				
	5BE102	Microeconomy	2-2-0	5	DMME
	5BM116	Sociology	2-2-0	5	DMT
	5BA130	Operational Management	3-1-0	5	DMT
	Additional subjects (choose at least one)				
	5BA130	Probability and Statistic	2-0-2	5	DMMOR
	5BE108	Macroeconomics	2-2-0	5	DMME
	5BE120	Financial-Economical Analysis	2-1-1	4	DMME
	5BF114	Mathematical Analysis 2	2-2-1	6	DMMOR
	5BL136	Ethics in Entrepreneurship	2-2-0	5	DMT
	Elective subjects				
5BI144	Animation in Computers Applications	1-0-3	4	DIN	

	5BL112	Physical Education 4	0-0-2	1	IPE
	5BL118	Foreign Language 4	0-2-0	3	ILE
	5BM128	Digital marketing	2-0-2	3	DMT
	5IL102	Forensics	2-1-0	4	DE

3<sup>rd</sup> year of study

Semester	Code	Subject	Hours per week	ECTS	Department
5	Core subjects				
	5BE117	Small and Medium Entrepreneurship	2-2-0	5	DMT
	5BM119	Fundamentals of Research in Management	2-2-0	5	DMT
	5BM127	Management of human resources	3-2-0	6	DMT
	5BS113	Information Systems of Enterprise	2-0-2	5	DMT
	Additional subjects (choose at least one)				
	5BA119	Modelling and Optimization	2-0-2	5	DMMOR
	5BM129	Marketing Tools and Applications	2-0-1	4	DMT
	5BS123	Communication Systems in Enterprise	2-0-2	4	DMT
	5UA113	Modelling and Simulation	2-0-2	5	DMMOR
	5UE113	Controlling	2-2-0	5	DMT
	Elective subjects				
	5BF119	Mathematical analysis 3	2-2-1	6	DMMOR
	5BL113	Physical Education 5	0-2-0	1	IPE
	5BL123	Foreign Language 5	0-2-0	3	ILE
	5US107	Multimedia information systems	2-0-2	6	DMMOR
6	Core subjects				
	5BL102	Foreign language Bc.	0-0-0	3	ILE
	5BP1M3	Internship	0-0-0	5	G
	5BZ1M1	Bachelor Project	0-0-8	12	G
	5BZ1M2	State Examination	0-0-0	4	G
	Additional subjects (choose at least one)				
5BI146	Software Modelling	2-0-2	5	DST	

	5BM120	Management 2	1-2-0	5	DMT
	Elective subjects				
	5BL114	Physical Education 6	0-2-0	1	IPE
	5BS104	Information and Control Systems in Transport	2-0-1	3	DST