

Information Systems and Technologies 180 ECTS – three-year study
I year – I Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Discrete Mathematics	IST1	3P+2V	6
2. Introduction to Programming	IST2	3P+2V	6
3. Introduction to Information Technologies	IST3	3P+2V	7
4. Introduction to Operative Systems	IST4	3P+2V	6
5. English Language	IST5	3P+2V	5
- Total: 5 subjects			30

I year – II Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Introduction to Databases	IST6	3P+2V	7
2. Architecture and Organization of Computer Systems	IST7	3P+2V	6
3. Programming Methods and Abstractions	IST8	3P+2V	6
4. Information Systems in Office Management	IST9	3P+2V	6
5. Algorithms and Structure of Data	IST10	3P+2V	5
- - Total: 5 subjects			30

II year – III Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Data Analysis	IST11	3P+2V	6
2. Digital Economy	IST12	3P+2V	6
3. Business Informatization	IST13	3P+2V	5
4. Principles of Software Engineering	IST14	3P+2V	6
5. Program Tools	IST15	3P+2V	7
- Total: 5 subjects			30

II year– IV Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Modeling Business Rules	IST16	3P+2V	5
2. Basics of Computer Communication Technologies	IST17	3P+2V	6
3. Object-oriented Analysis and Design	IST18	3P+2V	7
4. Basics of E-Business	IST19	3P+2V	6
5. Database Management Systems	IST20	3P+2V	6
- Total: 5 subjects			30

III year – V Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. IT Management	IST21	3P+2V	6
2. Server Operating Systems and Administration	IST22	3P+2V	6
3. Projecting Information Systems	IST23	3P+2V	7
4. Information Systems Management	IST24	3P+2V	6
5. Optional Subjects (<i>Student chooses one subject</i>):			
- Server Virtualization Services	IST25	3P+2V	5
- Establishing Reliable Information Systems	IST26		
- Total: 5 subjects			30

III year – VI Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Content Management Systems	IST27	3P+2V	6
2. Administration and Managing Computer Networks	IST28	3P+2V	6
3. Applying Mathematics and Statistics in Information Technology	IST29	3P+2V	6
4. Safety and Security of Information Systems	IST30	3P+2V	7
5. Final paper	ISTZR41	-	5
- Total: 5 Subjects			30

Information Systems and Technologies 240 ECTS – four-year study
I year – I Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Discrete Mathematics	IST1	3P+2V	6
2. Introduction to Programming	IST2	3P+2V	6
3. Introduction to Information Technologies	IST3	3P+2V	7
4. Introduction to Operative Systems	IST4	3P+2V	6
5. English Language	IST5	3P+2V	5
- Total:5 subjects			30

I year – II Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Introduction to Databases	IST6	3P+2V	7
2. Architecture and Organization of Computer Systems	IST7	3P+2V	6
3. Programming Methods and Abstractions	IST8	3P+2V	6
4. Information Systems in Office Management	IST9	3P+2V	6
5. Algorithms and Structure of Data	IST10	3P+2V	5
- Total: 5 subjects			30

II year – III Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Data Analysis	IST11	3P+2V	6
2. Digital Economy	IST12	3P+2V	6
3. Business Informatization	IST13	3P+2V	5
4. Principles of Software Engineering	IST14	3P+2V	6
5. Program Tools	IST15	3P+2V	7
Total: 5 Subjects			30

II year – IV Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Modeling of Business Rules	IST16	3P+2V	5
2. Basics of Computer Communication Technologies	IST17	3P+2V	6
3. Object-oriented Analysis and Design	IST18	3P+2V	7
4. Basics of E-Business	IST19	3P+2V	6
5. Database Management Systems	IST20	3P+2V	6
- Total: 5 Subjects			30

III year – V Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. IT Management	IST21	3P+2V	6
2. Server Operating Systems and Administration	IST22	3P+2V	6
3. Projecting Information Systems	IST23	3P+2V	7
4. Information Systems Management	IST24	3P+2V	6
5. Optional Subjects (<i>Student chooses one subject</i>):			
- Server Virtualization Services	IST25	3P+2V	5
- Establishing Reliable Information Systems	IST26		
- Total: 5 subjects			30

III year – VI Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Content Management Systems	IST27	3P+2V	6
2. Administration and Managing Computer Networks	IST28	3P+2V	6
3. Applying Mathematics and Statistics in Information Technology	IST29	3P+2V	6
4. Safety and Protection of Information Systems	IST30	3P+2V	7
5. Artificial Intelligence	IST31	3P+2V	5
- Total: 5 subjects			30

IV year – VII Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Objective oriented programming	IST32	3P+2V	7
2. Web Technologies	IST33	3P+2V	6
3. Computer Graphics and Digital Media	IST34	3P+2V	5
4. Computer Infrastructure	IST35	3P+2V	6
5. Projects Management	IST36	3P+2V	6
- Total: 5 subjects			30

IV year – VIII Semester

Subjects	Subject's code	Lectures and practice	ECTS
1. Integration of Information Systems	IST37	3P+2V	5
2. Innovations in Information Systems Development	IST38	3P+2V	5
3. Management Information Systems	IST39	3P+2V	5
4. Business Intelligence	IST40	3P+2V	5
5. Final paper	ISTZR42	-	10
- Total: subjects			30