

## Faculty of Informatics – Study program: Software Engineering

### I year

#### I semester

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	INCO	Introduction to Computer organization	30	45	2	3	8	240
2	MATH1	Mathematics 1	30	60	2	4	8	240
3	INPRG	Programming fundamentals	30	45	2	3	8	240
<b>One elective subject:</b>								
1	INDATR	Introduction to Data Transfer	30	30	2	2	6	180
2	ITCH	Internet Technologies	30	30	2	2	6	180
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

#### II semester

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	STPROG	Structured programming	30	60	2	4	9	270
2	MATH2	Mathematics 2	30	60	2	4	9	270
<b>2 elective subjects:</b>								
1	FORLNG	English Language	30	30	2	2	6	180
2	S&S	Signals and Systems	30	30	2	2	6	180
3	EBUS	E-business	30	30	2	2	6	180
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

**II year****III semester**

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	OS	Operating systems	30	45	2	3	8	240
2	OOPRG	Object-oriented programming	30	45	2	3	8	240
3	COARH	Computer architectures	30	45	2	3	8	240
<b>One elective subject:</b>								
1	SMOD	System modeling	30	45	2	3	6	180
2	CGR&V	Computer graphics and visualization	30	45	2	3	6	180
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

**IV semester**

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	DB	Databases	30	45	2	3	9	270
2	CONET	Computer networks	30	45	2	3	9	270
<b>2 elective subjects:</b>								
1	DSALG	Algorithms and Data structures	30	60	2	4	6	180
2	ALS	Linux administration	30	30	2	2	6	180
3	TCHVP	Techniques of Visual programming	30	30	2	2	6	180
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

**III year****V semester**

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	INSE	Introduction to Software engineering	30	45	2	3	9	270
2	NETP	Network Protocols	30	45	2	3	9	270
<b>2 elective subjects:</b>								
1	WEBAS	Web Application Software	30	45	2	3	6	180
2	NOS	Network Operating Systems	30	45	2	3	6	180
3	RPIT	Stochastic processes and Information theory	30	45	2	3	6	180
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

**VI semester**

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	SEIS	Security of Information systems	30	45	2	3	9	270
2	MM	Multimedia	30	45	2	3	9	270
<b>Two elective subjects:</b>								
1	OPRSC	Operational Research	30	45	2	3	6	180
2	PCNET	Design of Computer networks	30	45	2	3	6	180
3	A&A	Algorithms and Automata	30	45	2	3	6	180
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

## IV year

### VII semester

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	ADB	Advanced Databases	30	45	2	3	8	240
2	DCOSYS	Distributed Computing Systems	30	45	2	3	8	240
<b>2 elective subjects:</b>								
1	PIS	Design of Information Systems	30	45	2	3	7	210
2	WIFIN	Wireless networks	30	45	2	3	7	210
3	QTSS	Software Quality and Testing	30	45	2	3	7	210
<b>Total</b>			<b>120</b>	<b>180</b>	<b>8</b>	<b>12</b>	<b>30</b>	<b>900</b>

### VIII semester

No.	Code	Subject	Lessons		Weekly		ECTS	Load
			Lec.	Exer	Lec.	Exer		
1	PRMNG	Project management	30	45	2	3	8	240
2	PREC	Pattern recognition	30	45	2	3	8	240
<b>One elective subject:</b>								
1	DC	Data communications	30	45	2	3	6	180
2	A&VR	Animations and Virtual Reality	30	45	2	3	6	180
<b>Work on the Diploma thesis</b>							<b>8</b>	<b>240</b>
<b>Total</b>			<b>120</b>	<b>135</b>	<b>8</b>	<b>9</b>	<b>30</b>	<b>900</b>

Upon graduation - the student acquires 240 ECTS, and is entitled as:

**Graduated Engineer of Informatics**

Area: **Software engineering**