

Year	Sem	Subject name	Weekly number of hours				Practice	ECTS
			Lecture	Tutorial	Labwork	Project		
<b>First Year Compulsory subjects</b>								
1	1	Calculus 1	2	2				4
1	1	Linear Algebra, Analytical and Differential Geometry	2	2				4
1	1	Electrical Engineering 1	2	1				4
1	1	Operating Systems 1	2		2			4
1	1	Programming Languages	2		2			4
1	1	Computer Aided Graphics	1		1			3
1	1	Chemistry	1	1				3
1	1	Professional communication 1		2				2
1	1	Physical Education 1		1				2
1	2	Calculus 2	2	2				5
1	2	Physics 1	2	1	1			4
1	2	Electrical Engineering 2	2	2				4
1	2	Electronic Devices and Analog Electronics 1	2		2			4
1	2	Data Structures and Algorithms	2		2			5
1	2	Applied Informatics	2		2			4
1	2	Professional communication 2		1				2
1	2	Physical Education 2		1				2
<b>Facultative subjects</b>								
1	1	European Culture and Civilization 1		2				2
1	1	Foreign language 1		2				2
1	1	Romanian Language and Culture for Foreign Students 1		2				2
1	1	Education psychology	2	2				5
1	1	Volunteering 1				4		3
1	2	European Culture and Civilization 2		2				2

1	2	Foreign language 2		2				2
1	2	Volunteering 2					4	3
1	2	Romanian Language and Culture for Foreign Students 2		2				2
1	2	Pedagogy 1	2	2				5
<b>Second Year Compulsory subjects</b>								
2	1	Special Mathematics	2	2				4
2	1	Probability Theory and Mathematical Statistics	2	1				4
2	1	Physics II	2		1			4
2	1	Electronic Devices and Analog Electronics 2	2		1			4
2	1	Digital Electronics	2		2			4
2	1	Databases 1	2		1			4
2	1	Object Oriented Programming	2		2			4
2	1	Microeconomics	1	1				2
2	2	Microprocessor Architecture	2		2			5
2	2	Signals and Systems	2	1	1			4
2	2	Numerical Methods	2		2			5
2	2	Operating Systems 2	2		1	1		5
2	2	Electronic Measurements, Sensors and Transducers	2		2			5
2	2	Macroeconomics	1	1				2
<b>Optional subjects O1</b>								
2	2	Fundamentals of Electrical Engineering 3	2		2			4
2	2	Data Acquisition and Processing	2		2			4
<b>Facultative subjects</b>								
2	1	Foreign Language for Engineers 1		2				2
2	1	Romanian Language and Culture for Foreign Students 3		2				2
2	1	Physical Education and Sports 3		2				2
2	1	Technical Documents Advanced Processing 1		2				2

2	1	Pedagogy 2	2	2		4		5
2	1	Volunteering 3					4	3
2	2	Romanian Language and Culture for Foreign Students 4		2				2
2	2	Foreign Language 4		2				2
2	2	Specialty Didactics	2	2				5
2	2	Volunteering 4					4	3
<b>Third Year Compulsory subjects</b>								
3	1	Algorithm Design	2		1			4
3	1	Computer Networks	2		2			5
3	1	Formal Languages and Compilers	2		2			4
3	1	Elements of Computer Graphics	2		2			4
3	1	Money and Banking	1	1				2
3	1	Computer Architecture	1		2			4
3	2	Digital Signal Processing	2		2			3
3	2	Neural Networks and Genetic Algorithms	2		2			3
3	2	Business Administration	1	1				2
3	2	Web Programming	2		1	1		4
3	2	Software Development Methods	2		1	1		4
3	2	Human-Computer Interaction	2		1	1		3
3	2	Internship					360 total	8
<b>Optional Subjects O1</b>								
3	1	Quality and Reliability	2		1			3
3	1	Application Development for Mobile Devices	2		1			3
3	1	Introduction to SAP	2		1			3
<b>Optional Subjects O2</b>								
3	1	Data Transmissions	2		1			4
3	1	Internet of Things	2		1			4
<b>Optional Subjects O3</b>								
3	2	Functional Programming	2		2			3

3	2	Programming Paradigms	2		2			3
<b>Facultative subjects</b>								
3	1	Computer Assisted Training	1	1				2
3	1	Pedagogy internship 1					42 hour s	3
3	1	Volunteering 5					4	3
3	2	Classroom management	1	1				3
3	2	Pedagogy internship 2					36 hour s	2
3	2	Pedagogy level 1 exam						5
3	2	Volunteering 6					4	3
<b>Fourth Year Compulsory subjects</b>								
4	1	Bioinformatics	2		2			4
4	1	Software Engineering	2		1	1		5
4	1	Systems Engineering	2		1	1		5
4	1	Software Design Techniques	2		1	1		5
4	1	Fundamentals of Management	1	1				2
4	2	Web and Semantic Web Application Development	2		1	1		5
4	2	Distributed and parallel algorithms	2		1	1		5
4	2	Integrated security solutions	2		1	1		4
4	2	Industrial Management	1	1				2
4	2	Diploma Project					4	4
4	2	Diploma Project Practice					60 hour s	2
<b>Optional Subjects O1</b>								
4	1	Artificial Intelligence	2		2			5
4	1	Image Processing	2		2			5
<b>Optional Subjects O2</b>								
4	1	Programmable Electronic Systems with FPGA	2		2			4

4	1	Communication Systems	2		2			4
4	1	Microprocessor Systems	2		2			4
<b>Optional Subjects O3</b>								
4	2	Robotics and Intelligent Agents	2		1	1		4
4	2	Electronic CAD	2		1	1		4
<b>Optional Subjects O4</b>								
4	2	Software Project Management	2		1	1		4
4	2	Virtual and Augmented Reality	2		1	1		4
<b>Facultative subjects</b>								
4	1	Volunteering 7					4	3
4	2	Volunteering 8					4	3