

## Faculty of Electronics, Communication and Computer Science

### **COMPUTERS AND INFORMATION TECHNOLOGY, Bachelor degree**

<i>Subject</i>	<i>Semester</i>	<i>Number of ECTS credits</i>
Mathematical analysis	1 <sup>st</sup> Sem	5
Linear algebra, analytical and differential geometry	1 <sup>st</sup> Sem	4
Applied informatics	1 <sup>st</sup> Sem	4
Computer programming and programming languages	1 <sup>st</sup> Sem	6
Physics	1 <sup>st</sup> Sem	5
Modeling and simulation	1 <sup>st</sup> Sem	3
English language I	1 <sup>st</sup> Sem	3
Advanced mathematics for engineers	2 <sup>nd</sup> Sem	4
Numerical methods	2 <sup>nd</sup> Sem	3
Statistics and experimental data processing	2 <sup>nd</sup> Sem	3
Computer assisted graphics	2 <sup>nd</sup> Sem	4
Logic design	2 <sup>nd</sup> Sem	3
Data structures	2 <sup>nd</sup> Sem	4
Introduction in data bases	2 <sup>nd</sup> Sem	3
Practics I	2 <sup>nd</sup> Sem	3
English language II	2 <sup>nd</sup> Sem	3
Electrotechnics	1 <sup>st</sup> Sem	5
Digital electronics	1 <sup>st</sup> Sem	4
Electronics devices and analog electronics	1 <sup>st</sup> Sem	3
Object oriented programming	1 <sup>st</sup> Sem	4
Algorithms' design	1 <sup>st</sup> Sem	4
Basics of fine mechanics and mechatronics	1 <sup>st</sup> Sem	3
Electronic measurement	1 <sup>st</sup> Sem	4
Communication	1 <sup>st</sup> Sem	3
Digital computers	2 <sup>nd</sup> Sem	5
Basics of computer graphics	2 <sup>nd</sup> Sem	4
Algorithms analysis	2 <sup>nd</sup> Sem	3
Reconfigurable hardware	2 <sup>nd</sup> Sem	4
Basics of artificial intelligence	2 <sup>nd</sup> Sem	4
Practical applications II	2 <sup>nd</sup> Sem	3
Programming paradigms	2 <sup>nd</sup> Sem	4
Economy	2 <sup>nd</sup> Sem	3
Computers Structure and Organisation	1 <sup>st</sup> Sem	6
Systems Theory	1 <sup>st</sup> Sem	4
Graphical processing systems	1 <sup>st</sup> Sem	5
Software Engineering	1 <sup>st</sup> Sem	5
Microprocessors and Assembly Languages	1 <sup>st</sup> Sem	5
Microprocessors and Assembly Languages	1 <sup>st</sup> Sem	5
In-out systems	2 <sup>nd</sup> Sem	4
Data Basis	2 <sup>nd</sup> Sem	5
Parallel and Distributed Algorithms	2 <sup>nd</sup> Sem	5
Design with Microprocessors	2 <sup>nd</sup> Sem	5
Operating Systems	2 <sup>nd</sup> Sem	4
Practice III	2 <sup>nd</sup> Sem	3
Local Area Networks	2 <sup>nd</sup> Sem	4
Advanced Data Bases	1 <sup>st</sup> Sem	4
Digital processing images	1 <sup>st</sup> Sem	4
Digital Signal Processors	1 <sup>st</sup> Sem	5
Distributed systems	1 <sup>st</sup> Sem	5

<i>Formale Methods for Testing and Checking</i>	1 <sup>st</sup> Sem	4
<i>Design activity</i>	1 <sup>st</sup> Sem	3
<i>Systems Engineering with artificial intelligence</i>	1 <sup>st</sup> Sem	5
<i>Local Computer Networks</i>	2 <sup>nd</sup> Sem	5
<i>Real Time Systems</i>	2 <sup>nd</sup> Sem	4
<i>Parallel Programming</i>	2 <sup>nd</sup> Sem	5
<i>Practice for the project license</i>	2 <sup>nd</sup> Sem	8
<i>Programming for the web</i>	2 <sup>nd</sup> Sem	4
<i>Neural network</i>	2 <sup>nd</sup> Sem	4
<i>Physical Education I, II</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	1/1
<i>Physical Education III, IV</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	2/2
<i>English language III, IV</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	2/2

## **ELECTRONICS AND TELECOMMUNICATIONS ENGINEERING, Bachelor Degree**

<b>Subject</b>	<b>Semester</b>	<b>Number of ECTS credits</b>
Mathematical Analysis	1 <sup>st</sup> Sem	5
Linear Algebra, Analytical and Differential Geometry	1 <sup>st</sup> Sem	4
Computer Assisted Graphics	1 <sup>st</sup> Sem	4
Physics	1 <sup>st</sup> Sem	5
Applied Informatics	1 <sup>st</sup> Sem	4
Materials for Electronics	1 <sup>st</sup> Sem	5
<i>English language I</i>	1 <sup>st</sup> Sem	3
<i>Advanced Mathematics for Engineers</i>	2 <sup>nd</sup> Sem	4
<i>Numerical methods</i>	2 <sup>nd</sup> Sem	3
<i>Computer Programming and programming languages</i>	2 <sup>nd</sup> Sem	4
<i>Basics of Electrotechnics</i>	2 <sup>nd</sup> Sem	4
<i>Passive Components and Circuits</i>	2 <sup>nd</sup> Sem	4
<i>Statistics and experimental data</i>	2 <sup>nd</sup> Sem	3
<i>Electrochemical</i>	2 <sup>nd</sup> Sem	2
<i>Practics I</i>	2 <sup>nd</sup> Sem	3
<i>English language II</i>	2 <sup>nd</sup> Sem	3
<i>Theory of Electromagnetic Field</i>	1 <sup>st</sup> Sem	5
<i>Object Oriented Programming</i>	1 <sup>st</sup> Sem	3
<i>Electronic Devices</i>	1 <sup>st</sup> Sem	5
<i>Signals and Systems</i>	1 <sup>st</sup> Sem	4
<i>Information transmission theory</i>	1 <sup>st</sup> Sem	4
<i>CAD techniques making electronic modules</i>	1 <sup>st</sup> Sem	3
<i>Programming in Labview</i>	1 <sup>st</sup> Sem	3
<i>Computer-aided graphic processing</i>	1 <sup>st</sup> Sem	3
<i>Measurements in Electronics and Telecommunications</i>	2 <sup>nd</sup> Sem	4
<i>Fundamental Electronic Circuits</i>	2 <sup>nd</sup> Sem	5
<i>Digital Integrated Circuits</i>	2 <sup>nd</sup> Sem	5
<i>Design and Estimation on Information Processing</i>	2 <sup>nd</sup> Sem	3
<i>SPICE models</i>	2 <sup>nd</sup> Sem	3
<i>Analysis and Synthesis of Circuits</i>	2 <sup>nd</sup> Sem	4
<i>Practics II</i>	2 <sup>nd</sup> Sem	3
<i>Operating systems</i>	2 <sup>nd</sup> Sem	3
<i>Analog Integrated Circuits</i>	1 <sup>st</sup> Sem	5
<i>Architecture of Microprocessors</i>	1 <sup>st</sup> Sem	6
<i>Electronic measurement systems</i>	1 <sup>st</sup> Sem	4
<i>Programming in JAVA</i>	1 <sup>st</sup> Sem	3
<i>Power Electronics</i>	1 <sup>st</sup> Sem	4
<i>The basics of robotics</i>	1 <sup>st</sup> Sem	4
<i>Communications Analogue and Digital</i>	1 <sup>st</sup> Sem	4

<i>Electronic and telecommunication Automation</i>	2 <sup>nd</sup> Sem	3
<i>Microprocessors to microprocessors and microcontrollers</i>	2 <sup>nd</sup> Sem	5
<i>Basics of Data Acquisition</i>	2 <sup>nd</sup> Sem	5
<i>Television</i>	2 <sup>nd</sup> Sem	4
<i>Communication Systems</i>	2 <sup>nd</sup> Sem	4
<i>Microwaves</i>	2 <sup>nd</sup> Sem	3
<i>Practics III</i>	2 <sup>nd</sup> Sem	3
<i>Company management and organization</i>	2 <sup>nd</sup> Sem	3
<i>Optoelectronics</i>	1 <sup>st</sup> Sem	4
<i>Intelligent Controll Systems</i>	1 <sup>st</sup> Sem	4
<i>Software Engineering for Industrial Process Control</i>	1 <sup>st</sup> Sem	4
<i>Medical Electronics</i>	1 <sup>st</sup> Sem	4
<i>Electronic power converters</i>	1 <sup>st</sup> Sem	4
<i>Reconfigurable circuits</i>	1 <sup>st</sup> Sem	4
<i>Design activity</i>	1 <sup>st</sup> Sem	3
<i>Quality Engineering for Electronics</i>	1 <sup>st</sup> Sem	3
<i>Programmable logic controllers</i>	2 <sup>nd</sup> Sem	4
<i>Industrial Power Converters</i>	2 <sup>nd</sup> Sem	4
<i>Industrial robotics</i>	2 <sup>nd</sup> Sem	4
<i>Practice for drafting diploma</i>	2 <sup>nd</sup> Sem	10
<i>Constructions and Technology of Electronic Apparatus</i>	2 <sup>nd</sup> Sem	4
<i>Sensors and actuators</i>	2 <sup>nd</sup> Sem	4
<i>English Language III, IV</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	1/1
<i>Phisical Education I,II</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	2/2
<i>Phisical Education III, IV</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	2/2

### ***ELECTROMECHANICS, Bachelor degree***

<b><i>Subject</i></b>	<b><i>Semester</i></b>	<b><i>Number of ECTS credits</i></b>
Mathematical Analysis	1 <sup>st</sup> Sem	5
Linear Algebra, Analytical and Differential Geometry 1,2	1 <sup>st</sup> Sem	4
Computer Assisted Graphics	1 <sup>st</sup> Sem	4
Descriptive Geometry and Tehnical Drawing	1 <sup>st</sup> Sem	3
Physics	1 <sup>st</sup> Sem	6
Applical Information	1 <sup>st</sup> Sem	5
<i>English Language I</i>	1 <sup>st</sup> Sem	3
<i>Advanced Mathematics for Engineering</i>	2 <sup>nd</sup> Sem	5
<i>Mechanics</i>	2 <sup>nd</sup> Sem	3
<i>Electrotechnical Materials</i>	2 <sup>nd</sup> Sem	3
<i>Computers Programming and Programming Languages</i>	2 <sup>nd</sup> Sem	4
<i>Statistics and Experimental data Processing</i>	2 <sup>nd</sup> Sem	3
<i>Theory of electric circuit</i>	2 <sup>nd</sup> Sem	5
<i>Electrochemical</i>	2 <sup>nd</sup> Sem	2
<i>Practical Applications</i>	2 <sup>nd</sup> Sem	2
<i>English Language II</i>	2 <sup>nd</sup> Sem	3
<i>Theory of electromagnetic field</i>	1 <sup>st</sup> Sem	5
<i>Analog electronics</i>	1 <sup>st</sup> Sem	4
<i>Technological methods and processes</i>	1 <sup>st</sup> Sem	3
<i>Hydro-pneumatic Drive Systems</i>	1 <sup>st</sup> Sem	3
<i>Rezistance of Materials</i>	1 <sup>st</sup> Sem	3
<i>Mechanism and machine organs</i>	1 <sup>st</sup> Sem	4
<i>English Language III</i>	1 <sup>st</sup> Sem	3
<i>Signal Processing</i>	1 <sup>st</sup> Sem	5
<i>Numerical Methods in Electric Engineering</i>	2 <sup>nd</sup> Sem	4

<i>Digital electronics</i>	2 <sup>nd</sup> Sem	4
<i>Computer aided design of mechanical structures</i>	2 <sup>nd</sup> Sem	3
<i>Electrical Equipment</i>	2 <sup>nd</sup> Sem	5
<i>Electromagnetic convertors</i>	2 <sup>nd</sup> Sem	5
<i>Heat Engineering</i>	2 <sup>nd</sup> Sem	3
<i>Technological Practice</i>	2 <sup>nd</sup> Sem	3
<i>English Language IV</i>	2 <sup>nd</sup> Sem	3
<i>System theory and control</i>	1 <sup>st</sup> Sem	6
<i>Transducers</i>	1 <sup>st</sup> Sem	5
<i>Electric Drive Systems</i>	1 <sup>st</sup> Sem	6
<i>Systems with Microprocessors</i>	1 <sup>st</sup> Sem	4
<i>Electrical Machines</i>	1 <sup>st</sup> Sem	5
<i>Static Convertors</i>	1 <sup>st</sup> Sem	4
<i>Electrical and Electronic Measurements</i>	2 <sup>nd</sup> Sem	4
<i>Electrical Installations</i>	2 <sup>nd</sup> Sem	4
<i>Electric Drive Systems</i>	2 <sup>nd</sup> Sem	4
<i>Programmable Logic Controles</i>	2 <sup>nd</sup> Sem	4
<i>Automotive Electric Systems</i>	2 <sup>nd</sup> Sem	5
<i>Practical Application</i>	2 <sup>nd</sup> Sem	3
<i>Intelligent control of electro-mechanical systems</i>	2 <sup>nd</sup> Sem	3
<i>Economics</i>	2 <sup>nd</sup> Sem	3
<i>Electric Energy Transmission and Distribution</i>	1 <sup>st</sup> Sem	4
<i>Electrical Energy Utilisation</i>	1 <sup>st</sup> Sem	5
<b>Data Acquisition</b>	1 <sup>st</sup> Sem	3
<i>Energy sources</i>	1 <sup>st</sup> Sem	3
<i>Electromechanical systems</i>	1 <sup>st</sup> Sem	5
<i>Design activity</i>	1 <sup>st</sup> Sem	2
<i>Software engineering for industrial processes</i>	1 <sup>st</sup> Sem	3
<i>Electrical Thrust</i>	1 <sup>st</sup> Sem	5
<i>Quality and reliability</i>	2 <sup>nd</sup> Sem	3
<i>Electromagnetic compatibility</i>	2 <sup>nd</sup> Sem	4
<i>Management and marketing</i>	2 <sup>nd</sup> Sem	3
<i>Electrical Machines Manufacturing Technology</i>	2 <sup>nd</sup> Sem	5
<i>Practice for drafting degree</i>	2 <sup>nd</sup> Sem	7
<i>Computer aided design of electromechanical systems</i>	2 <sup>nd</sup> Sem	4
<i>Industrial electronic systems</i>	2 <sup>nd</sup> Sem	4
<i>Phisical Education I, II</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	1/1
<i>Phisical Education III, IV</i>	1 <sup>st</sup> Sem, 2 <sup>nd</sup> Sem	1/1

