COURSE CATALOGUE 2016-2017

Field: Electronic Engineering and Telecommunications Programme: M.Sc. In Advanced Intelligent Electronic Systems Length of studies: 2 years (4 semesters) Number of ECTS Credits: 120

Languages of teaching: Romanian (English/French available for Erasmus students) Form of education: Full-time

Course Code	Course Title	Type of course/ tuition hours	Semester	ECTS
SEIA101	Engineering Mathematics for Electronic Systems Modelling	Compulsory, 56	Autumn	7
SEIA102	Programming environments and dedicated software architecture	Compulsory, 56	Autumn	6
SEIA103_1	Programming automated numerical systems witl PLC	Compulsory, 56	Autumn	5
SEIA103_2	Software for Man-Computer Communication	Compulsory, 56	Autumn	5
SEIA104_1	Processing signals and paterns recognition. Applications in auto imaging and medical imaging	Compulsory, 56	Autumn	6
SEIA104_2	Artifficial Intelligence for Robots	Compulsory, 56	Autumn	6
SEIA105_1	Electronic microdrives	Compulsory, 56	Autumn	6
SEIA105_2	Power electronic modules	Compulsory, 56	Autumn	6
SEIA106	English Language	Optional, 28	Autumn	2
SEIA107	Flexible industrial Communication Systems	Compulsory, 56	Summer	6
SEIA108_1	Automative information systems	Compulsory, 56	Summer	6
SEIA108_2	Integrated Electronic systems for developing electronic devices	Compulsory, 56	Summer	6
SEIA109	Project - applied electronics research	Compulsory, 56	Summer	5
SEIA110_1	SoC Programming	Compulsory, 56	Summer	5
SEIA110_2	Flexible Systems for Intelligent Sensors	Compulsory, 56	Summer	5
SEIA111	Advanced Systems for Measurment, Processing and Information Transmission	Compulsory, 56	Summer	5
SEIA112	Industrial Practice/Research	Compulsory, 56	Summer	3
SEIA201_1	Sociology of Work in Engineering	Compulsory, 56	Autumn	6
SEIA201_2	Artifficial Imaging Systems in Control Structures	Compulsory, 56	Autumn	6
SEIA202_1	Intelligent Systems for Biotherapy	Compulsory, 56	Autumn	6
SEIA202_2	Advances Systems for Control and Diagnosis	Compulsory, 56	Autumn	6
SEIA202_3	Designing Auto Optoelectronic Systems	Compulsory, 56	Autumn	6
SEIA203_1	Advanced Elements of Designing Dedicated Electronic Systems	Compulsory, 56	Autumn	6
SEIA203_2	Analysing Signal Integrity in Electronic Device Designing	Compulsory, 56	Autumn	6
SEIA203_3	Advanced CAD Methods in Industry	Compulsory, 56	Autumn	6
SEIA204	Integrated Research Project	Compulsory, 56	Autumn	6
SEIA205	Technical requirments and Standards for Industrial UNS	Compulsory, 56	Autumn	6
SEIA207	Applied Language - German	Optional, 28	Autumn	2
SEIA208	Research Practice	Compulsory, 56	Summer	15
SEIA209	Drafting the M.Sc. Thesis	Compulsory, 56	Summer	15