

UNIVERSITY OF ORADEA
FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
 Licence's Degree Program: **ELECTRICAL ENGINEERING AND COMPUTERS**
 Fundamental Field: **ENGINEERING SCIENCES**
 Undergraduate Field: **ELECTRICAL ENGINEERING**
 Duration of studies / no. of credits: **4 years/240 credits**
 Type of education: **Full-time learning (IF)**

Valid from academic year
 2023-2024
 Beginning with 1st year of
 study

CURRICULUM **
Year of study I

Code	Disciplines*	Type	Sem. I [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0003	Mathematical Analysis	FD	2	1	-	-	42	Ex	3	33	
IETI-0002	Linear algebra, analytical and differential geometry	FD	2	1	-	-	42	Ex	3	33	
IETI-0784	Applied Informatics I	FD	2	-	2	-	56	Ex	5	69	
IETI-0013	Physics	FD	2	1	-	-	42	Ex	3	33	
IETI-1048	Computer-Assisted Graphics I	FD	2	-	1	-	42	Ex	4	58	
IETI-1130	Internet	SD	-	-	2	-	28	Vp	2	22	
IETI-0212	Technological methods and procedures	DD	2	-	1	-	42	Vp	4	58	
IETI-1046	Quality and reliability	DD	2	1	-	-	42	Vp	4	58	
IETI-0548	Modern languages I	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		14	5	6	-	350		30	400	
IETI-0999	Physical Education and Sport I	CD	-	1	-	-	14	A/R	1	11	

Code	Disciplines*	Type	Sem. II [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0009	Special mathematics	FD	2	2	-	-	56	Ex	4	44	
IETI-0786	Applied informatics II	FD	2	-	2	-	56	Ex	5	69	
IETI-1049	Computer-Assisted Graphics II	FD	2	-	2	-	56	Vp	4	44	
IETI-0637		SD	2	-	1	-	42	Vp	5	83	
IETI-0247	Electromagnetic field theory	DD	2	2	2	-	84	Ex	6	66	
IETI-0205	Electrotechnic materials	DD	2	-	1	-	42	Vp	4	58	
IETI-0549	Modern Languages II	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		12	5	8	-	350		30	400	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	1	11	

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Head of department ,
Lecturer Ph.D eng. ARION Mircea-Nicolae

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Professor dr. HATHAZI Francisc Ioan

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Year of study II

Code	Disciplines*	Type	Sem. III [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-1115	Numerical methods I	FD	2	1	2	-	70	Ex	5	55	
IETI-0138	Computer programming and programming languages	FD	2	-	2	-	56	Ex	4	44	
IETI-0203	Electric and electronic measurements I	DD	2	-	2	-	56	Ex	5	69	
IETI-0248	Theory of electrical circuits I	DD	2	1	2	-	70	Ex	5	55	
IETI-0315	Analogical and digital electronics I	DD	2	-	1	-	42	Ex	4	58	
IETI-1131	Industrial IT	SD	2	-	1	-	42	Vp	4	58	
IETI-0550	Modern Languages III	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		12	3	10	-	350		29	375	
	OBLIGATORII OPȚIONALE										
IETI-0487	Communication	CD	1	-	-	-	14	Vp	1	11	
IETI-1108	Academic Ethics and Integrity	CD	1	-	-	-	14	Vp	1	11	
	TOTAL		1	-	-	-	14		1	11	
IETI-1003	Physical Education and Sport III	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-1086	Analysis and synthesis of digital devices	SD	2	-	1	-	42	Vp	2	8	

Code	Disciplines*	Type	Sem. IV [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0249	Theory of electrical circuits II	DD	2	1	2	-	70	Ex	5	55	
IETI-0204	Electric and electronic measurements II	DD	2	-	2	-	56	Ex	5	69	
IETI-0316	Analogical and digital electronics II	DD	2	-	1	-	42	Ex	4	58	
IETI-1132	Programming in JAVA	SD	2	-	1	-	42	Ex	3	33	
IETI-1116	Numerical methods II	FD	2	-	2	-	56	Vp	3	19	
IETI-0972	Power Quality / Quality of the electrical energy	SD	2	-	-	1	42	Vp	3	33	
IETI-0551	Modern Languages IV	CD	-	1	-	-	14	Vp	1	11	
IETI-1037	Domain practice	DD	-	-	-	-	90	Vp	4	10	
	TOTAL		12	2	8	1	412		28	288	
	OBLIGATORII OPȚIONALE										
IETI-1133	Applications in MATHCAD and MATLAB	SD	2	-	1	-	42	Vp	2	8	
IETI-1123	Introduction to the finite element method	SD	2	-	1	-	42	Vp	2	8	
	TOTAL		2	-	1	-	42		2	8	
IETI-1006	Physical Education and Sport IV	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-1134	Software engineering	SD	2	-	1	-	42	Vp	2	8	

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Year of study III

Code	Disciplines*	Type	Sem. V [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-1135	CAD for electrical engineering	SD	2	-	1	-	42	Ex	5	83	
IETI-1136	CAD for Electrical Engineering - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-0318	Power electronics	SD	2	-	1	-	42	Vp	3	33	
IETI-0552	Management	DD	1	-	-	-	14	Vp	2	36	
IETI-0271	Electrical machines	DD	2	-	2	1	70	Ex	5	55	
IETI-1061	Theory of Systems and Automated Regulation	DD	2	-	1	-	42	Vp	3	33	
IETI-0182	Electrical equipments	DD	2	-	2	-	56	Vp	3	19	
	TOTAL		11	-	7	2	280		22	270	
	OBLIGATORII OPȚȚIONALĂ										
	PACHET 1										
IETI-1137	The numerical modeling of the electromagnetic field	SD	2	-	2	-	56	Ex	4	44	
IETI-1138	The finite element method in electrotechnics	SD	2	-	2	-	56	Ex	4	44	
	PACHET 2										
IETI-1139	Virtual Instrumentation in Electrical Engineering	SD	2	-	1	-	42	Ex	4	58	
IETI-1140	Microsensors and actuators	SD	2	-	1	-	42	Ex	4	58	
	TOTAL		4	-	3	-	98		8	102	
	FACULTATIVE										
IETI-1206	Career Coaching in Computers	CD	1	1	-	-	28	Vp	3	47	
IETI-0933	Analog integrated circuits	SD	2	-	1	-	42	Vp	2	8	
IETI-0360	Computer Architectures	SD	2	-	1	-	42	Vp	2	8	

Code	Disciplines*	Type	Sem. VI [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0412	Electrical drives I	DD	2	-	2	-	56	Ex	4	44	
IETI-0197	Electrical installations	SD	2	-	1	-	42	Ex	3	33	
IETI-1070	Electric circuits simulation	SD	2	-	2	-	56	Ex	4	44	
IETI-0374	Digital signal processing	SD	2	-	1	-	42	Ex	3	33	

IETI-1141	Computer interfaces and peripherals	SD	2	-	1	-	42	Ex	4	58	
IETI-1142	Computer Interfaces and Peripherals - Project	SD	-	-	-	2	28	Vp	2	22	
IETI-0460	Microprocessor systems	DD	2	-	2	-	56	Vp	4	44	
IETI-1038	Specialty practice	SD	-	-	-	-	90	Vp	4	10	
	TOTAL		12	-	9	2	412		28	288	
	OBLIGATORII OPȚȚIONALE										
IETI-0453	Robotics	SD	2	-	1	-	42	Ex	2	8	
IETI-1143	Analysis of nonlinear systems in electrical engineering	SD	2	-	1	-	42	Ex	2	8	
	TOTAL		2	-	1	-	42		2	8	
	FACULTATIVE										
IETI-1144	Software architectures and programming on integrated systems	SD	2	-	1	-	42	Vp	2	8	
IETI-0842	Digital Integrated Circuits	SD	2	-	1	-	42	Vp	2	8	

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Year of study IV

Code	Disciplines*	Type	Sem. VII [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0413	Electrical drives II	DD	2	-	1	-	42	Ex	4	58	
IETI-0176	Electromagnetic compatibility	DD	2	2	-	-	56	Ex	4	44	
IETI-0965	Electromagnetic compatibility - project	DD	-	-	-	2	28	Vp	2	22	
IETI-1071	Microcontrollers and programmable logic cotrollers	DD	2	-	1	-	42	Ex	4	58	
IETI-0269	Electrothermy	SD	2	-	1	-	42	Ex	5	83	
IETI-0693	Electrothermics - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-0817	Generation, transportation and distribution of electrical energy	DD	2	-	2	-	56	Vp	4	44	
IETI-0131	Real time programming	SD	2	-	1	-	42	Vp	3	33	
	TOTAL		12	2	6	3	322		27	353	
	OBLIGATORII OPd'z'IONALE										
IETI-1145	The Control of electric drives	SD	2	-	1	-	42	Vp	3	33	
IETI-1146	Industrial control	SD	2	-	1	-	42	Vp	3	33	
	TOTAL		2	-	1	-	42		3	33	
	FACULTATIVE										
IETI-0337	Neural Networks	SD	2	-	1	-	42	Vp	2	8	

Code	Disciplines*	Type	Sem. VIII [hours / week]				Total of hours / sem.	Type of Exami- nation	Cre- dits	IS [hours / sem.]	Condi- tioning
			C	S	L	P					
	OBLIGATORII IMPUSE										
IETI-0190	Energetics surse	DD	2	-	2	-	56	Ex	3	19	
IETI-1147	Monitoring and diagnosis of electrotechnical equipment	SD	2	-	1	-	42	Ex	3	33	
IETI-1148	Monitoring and diagnosis of electrotechnical equipment - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-1149	Lighting technology	SD	2	-	1	-	42	Vp	3	33	
IETI-1060	Static Power Converters	DD	2	-	2	-	56	Vp	3	19	
IETI-1150	CAD for electrical equipment	SD	2	-	1	-	42	Vp	2	8	
IETI-1044	Practice for the diploma project	SD	-	-	-	-	60	Vp	6	90	
IETI-1022	Diploma project development	SD	-	-	-	-	56	Vp	4	44	
	TOTAL		10	-	7	1	368		25	257	
	OBLIGATORII OPd'z'IONALE										
	PACHET 1										
IETI-0188	Electrotechnologies	SD	2	-	1	1	56	Ex	3	19	
IETI-0449	Computer networks	SD	2	-	1	1	56	Ex	3	19	
	PACHET 2										
IETI-1152	The engineering of industrial systems	SD	2	-	1	1	56	Ex	2	0	
IETI-1151	Control engineering and optimization methods	SD	2	-	1	1	56	Ex	2	0	
	TOTAL		4	-	2	2	112		5	25	
	LICEND'z' d'z'										
IETI-0901	Diploma exam	SD	-	-	-	-	0	Ex	10	250	
	FACULTATIVE										
IETI-0164	Artificial Intelligence	SD	2	-	1	-	42	Vp	2	8	

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