

UNIVERSITY OF ORADEA
FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
 Licence's Degree Program: **APPLIED ELECTRONICS**
 Fundamental Field: **ENGINEERING SCIENCES**
 Undergraduate Field: **ELECTRONICAL ENGINEERING, TELECOMMUNICATIONS AND INFORMATION TECHNOLOGIES**
 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	2	-	-	56	Ex	4	44	
IETI-0002	Linear algebra, analytical and differential geometry	FD	2	1	-	-	42	Ex	4	58	
IETI-0013	Physics	FD	2	2	-	-	56	Ex	4	44	
IETI-0769	Applied informatics	FD	2	1	2	-	70	Vp	4	30	
IETI-1156	Documents processing and internet services	SD	2	-	1	-	42	Vp	4	58	
IETI-0783	Computer programming and programming languages I	FD	2	-	2	-	56	Vp	3	19	
IETI-0832	Passive components and circuits	DD	2	1	-	-	42	Ex	4	58	
IETI-0998	English language I	CD	-	1	-	-	14	Vp	3	61	
	TOTAL		14	8	5	-	378		30	372	
IETI-0999	Physical Education and Sport I	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-0024	Educational psychology	CD	2	1	-	-	42	Vp	2	8	

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-0932	Internet programming techniques	DD	2	-	1	-	42	Vp	4	58	
IETI-0831	Material for electronics	DD	2	-	1	-	42	Vp	3	33	
IETI-0834	Electronic devices	DD	2	-	1	-	42	Ex	5	83	
IETI-0835	Fundamentals of Electrical Engineering I	DD	2	1	1	-	56	Ex	3	19	
IETI-1104	Computer programming and programming languages II	FD	2	-	2	-	56	Vp	3	19	
IETI-0350	Electronic Technology	SD	2	-	1	-	42	Ex	4	58	
IETI-1178	Electronic and mechanical microsystems	SD	2	-	1	-	42	Vp	3	33	
IETI-1002	English language II	CD	-	1	-	-	14	Vp	1	11	
	TOTAL		16	4	8	-	392		30	358	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-0020	Pedagogy I	CD	2	1	-	-	42	Vp	2	8	

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CURRICULUM **
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-0836	Basic electronic circuits	DD	2	-	2	-	56	Ex	4	44	
IETI-0110	Digital integrated circuits I	DD	2	-	1	-	42	Vp	3	33	
IETI-0193	Computer aided graphics	FD	2	-	2	-	56	Vp	4	44	
IETI-0382	Signals and Systems I	DD	2	-	1	-	42	Ex	4	58	
IETI-1001	Computer aided graphics - project	FD	-	-	-	2	28	Vp	2	22	
IETI-0838	Fundamentals of Electrical Engineering II	DD	2	-	1	-	42	Ex	3	33	
IETI-0933	Analog integrated circuits	DD	2	-	2	-	56	Ex	4	44	
IETI-0839	Measurements in Electronics and Telecommunications	DD	2	-	1	-	42	Ex	4	58	
IETI-1005	English language III	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		14	1	10	2	378		30	372	
IETI-1003	Physical Education and Sport III	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-0021	Pedagogy II	CD	2	1	-	-	42	Vp	2	8	
IETI-0439	Scientific research methodology	CD	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-0837	Object oriented programming	DD	2	-	1	-	42	Vp	3	33	
IETI-1004	SPICE models	DD	2	-	1	1	56	Ex	4	44	
IETI-0383	Signals and Systems II	DD	2	1	1	-	56	Ex	4	44	
IETI-0210	Numerical methods	FD	2	2	1	-	70	Vp	4	30	
IETI-0111	Digital integrated circuits II	DD	2	-	1	-	42	Ex	3	33	
IETI-0264	Industrial electrotechnics	SD	2	-	1	-	42	Vp	3	33	
IETI-1158	Information transmission theory	DD	2	-	1	-	42	Ex	4	58	
IETI-1014	English language IV	CD	-	1	-	-	14	Vp	1	11	
IETI-1017	Domain practice	DD	-	-	-	-	90	Cv	4	10	
	TOTAL		14	4	7	1	454		30	296	
IETI-1006	Physical Education and Sport IV	CD	-	1	-	-	14	A/R	1	11	
	FACULTATIVE										
IETI-0018	Didactics of the specialization	CD	2	1	-	-	42	Vp	2	8	
IETI-0563	Project management	CD	2	1	-	-	42	Vp	2	8	

CURRICULUM **
 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-0823	Industrial Electronics	SD	2	-	1	1	56	Ex	4	44	
IETI-0828	Nano and micro technologies for electronics	SD	2	1	-	-	42	Ex	4	58	
IETI-0848	Nano and Microtechnologies for electronics - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-1007	Basics of data acquisition systems	DD	2	-	2	-	56	Ex	5	69	
IETI-0846	Digital Signal Processing	DD	2	-	2	-	56	Ex	4	44	
TOTAL			8	1	5	2	224		18	226	
OBLIGATORII OPD'Z'IONALE											
PACHET 1											
IETI-0826	Microcontrollers	DD	2	-	2	-	56	Ex	5	69	
IETI-1008	Microprocessor architecture	DD	2	-	2	-	56	Ex	5	69	
PACHET 2											
IETI-0827	Microcontrollers - project	DD	-	-	-	1	14	Vp	1	11	
IETI-1009	Microprocessor architecture-project	DD	-	-	-	1	14	Vp	1	11	
PACHET 3											
IETI-0487	Communication	CD	1	-	-	-	14	Vp	2	36	
IETI-1108	Academic Ethics and Integrity	CD	1	-	-	-	14	Vp	2	36	
PACHET 4											
IETI-0410	Electrical Drives	SD	2	-	1	-	42	Vp	4	58	
IETI-1167	Machines and electrical drives	SD	2	-	1	-	42	Vp	4	58	
TOTAL			5	-	3	1	126		12	174	
FACULTATIVE											
IETI-1015	English language V	CD	-	2	-	-	28	Vp	2	22	
IETI-0435	Inventions	CD	2	-	-	-	28	Vp	2	22	

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-0405	Reliability	SD	2	-	-	-	28	Vp	2	22	
IETI-0847	Television	DD	2	-	2	-	56	Ex	4	44	
IETI-0375	Image Processing and Analysis	SD	2	-	1	1	56	Ex	4	44	
IETI-0306	Power Electronic Converters	SD	2	-	1	-	42	Ex	3	33	
IETI-0825	Microwaves	DD	2	-	2	-	56	Ex	4	44	
IETI-0504	General Economics	CD	1	-	-	-	14	Vp	2	36	
IETI-1159	Communications systems	DD	2	-	2	1	70	Vp	4	30	
IETI-1018	Specialty practice	SD	-	-	-	-	90	Cv	4	10	
TOTAL			13	-	8	2	412		27	263	
OBLIGATORII OPD'Z'IONALE											
IETI-0100	Computer Architecture	SD	2	-	1	-	42	Vp	3	33	
IETI-0449	Computer networks	SD	2	-	1	-	42	Vp	3	33	
TOTAL			2	-	1	-	42		3	33	
FACULTATIVE											
IETI-1011	Alternative energy sources	SD	2	-	1	-	42	Vp	4	58	
IETI-1016	English language VI	CD	-	2	-	-	28	Vp	2	22	
IETI-1202	Entrepreneurship in Electronics	CD	2	-	-	-	28	Ex	2	22	

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Head of departament ,
 Professor dr.eng. Daniel TRIP

RECTOR,
 Professor Dr. BUNGĂU Constantin

DEAN,
 Professor dr. GORDAN Ioan Mircea

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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-0331	Digital Signal Processors	SD	2	-	1	-	42	Ex	4	58	
IETI-0321	Medical electronics	SD	2	-	1	-	42	Ex	4	58	
IETI-0448	Automata System Design	SD	2	-	1	-	42	Vp	3	33	
IETI-0936	Optoelectronics	DD	2	-	1	-	42	Ex	3	33	
IETI-1160	Electronic converters modeling	SD	2	-	1	-	42	Ex	4	58	
IETI-0267	Virtual instrumentation	SD	2	-	1	-	42	Ex	4	58	
	TOTAL		12	-	6	-	252		22	298	
	OBLIGATORII OPȚȚIONALE										
	PACHET 1										
IETI-0851	Electronic systems in robotics	SD	2	-	1	-	42	Ex	4	58	
IETI-0338	Mobile Robots	SD	2	-	1	-	42	Ex	4	58	
	PACHET 2										
IETI-0356	Computer Vision	SD	2	-	1	-	42	Vp	4	58	
IETI-0585	Medical Imaging	SD	2	-	1	-	42	Vp	4	58	
	TOTAL		4	-	2	-	84		8	116	
	FACULTATIVE										
IETI-1168	Development of electronic products	SD	2	-	1	-	42	Vp	3	33	

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-1012	Ultrasounds applications	SD	2	-	2	-	56	Ex	4	44	
IETI-1180	Neural networks and fuzzy systems	SD	2	-	1	-	42	Ex	4	58	
IETI-0335	Pattern Recognition	SD	2	-	2	-	56	Ex	4	44	
IETI-1179	Programable electronics systems	SD	2	-	1	-	42	Ex	4	58	
IETI-1044	Practice for the diploma project	SD	-	-	-	-	60	Vp	2	0	
IETI-1022	Diploma project development	SD	-	-	-	-	56	Vp	4	44	
	TOTAL		8	-	6	-	312		22	248	
	OBLIGATORII OPȚȚIONALE										
	PACHET 1										
IETI-0367	Optical Communication	SD	2	-	1	-	42	Vp	4	58	
IETI-1161	Information optical transmission	SD	2	-	1	-	42	Vp	4	58	
	PACHET 2										
IETI-0352	Electronic Equipments Testing	SD	2	-	2	-	56	Ex	4	44	
IETI-1162	Applications of complex electronic systems	SD	2	-	2	-	56	Ex	4	44	
	TOTAL		4	-	3	-	98		8	102	
	FACULTATIVE										
IETI-1016	English language VI	CD	-	2	-	-	28	Vp	2	22	

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