

UNIVERSITY OF ORADEA
FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY
 Licence's Degree Program: **NETWORKS AND SOFTWARES FOR TELECOMMUNICATIONS**
 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	Vp	4	58	
IETI-0013	Physics	FD	2	2	-	-	56	Ex	4	44	
IETI-0769	Applied informatics	FD	2	1	2	-	70	Ex	4	30	
IETI-0104	Data bases	DD	1	-	1	-	28	Ex	4	72	
IETI-1103	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		13	8	5	-	364		30	386	
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	1	-	56	Ex	5	69	
IETI-0835	Fundamentals of Electrical Engineering I	DD	2	1	1	-	56	Ex	4	44	
IETI-1104	Computer programming and programming languages II	FD	2	-	2	-	56	Vp	4	44	
IETI-0350	Electronic Technology	SD	2	-	1	-	42	Ex	4	58	
IETI-1002	English language II	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		14	5	7	-	364		30	386	
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	-	1	-	42	Ex	4	58	
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	5	69	
IETI-0839	Measurements in Electronics and Telecommunications	DD	2	-	1	-	42	Ex	4	58	
IETI-1005	English language III	CD	-	1	-	-	14	Vp	1	11	
	TOTAL		14	1	9	2	364		30	386	
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-1004	SPICE models	DD	2	-	1	1	56	Ex	4	44	
IETI-0837	Object oriented programming	DD	2	-	1	-	42	Vp	3	33	
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	4	58	
IETI-0854	Electronic Instrumentation for measurement	DD	2	-	1	-	42	Ex	3	33	
IETI-1158	Information transmission theory	DD	2	-	1	-	42	Ex	3	33	
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-0563	Project management	CD	2	1	-	-	42	Vp	2	8	
IETI-0018	Didactics of the specialization	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-1163	Supply sources	SD	2	-	1	-	42	Ex	3	33	
IETI-0377	Radiocommunications	SD	2	-	1	-	42	Vp	4	58	
IETI-0828	Nano and micro technologies for electronics	SD	2	1	-	-	42	Ex	4	58	
IETI-1007	Basics of data acquisition systems	DD	2	-	2	-	56	Ex	4	44	
IETI-0846	Digital Signal Processing	DD	2	-	1	-	42	Ex	4	58	
IETI-0362	Telecommunications Devices	SD	2	-	1	-	42	Vp	3	33	
TOTAL			12	1	6	-	266		22	284	
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	2	-	-	-	28	Vp	2	22	
IETI-1108	Academic Ethics and Integrity	CD	2	-	-	-	28	Vp	2	22	
TOTAL			4	-	2	1	98		8	102	
FACULTATIVE											
IETI-1015	English language V	CD	-	2	-	-	28	Cv	2	22	
IETI-0435	Inventions	CD	2	-	-	-	28	Cv	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	-	2	1	70	Ex	4	30	
IETI-0825	Microwaves	DD	2	1	2	-	70	Ex	4	30	
IETI-0848	Nano and Microtechnologies for electronics - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-0504	General Economics	CD	2	-	-	-	28	Vp	2	22	
IETI-1038	Specialty practice	SD	-	-	-	-	90	Cv	4	10	
TOTAL			10	1	6	2	356		21	169	
OBLIGATORII OPd'z'IONALE											
PACHET 1											
IETI-1019	Audio engineering	SD	2	-	1	-	42	Ex	4	58	
IETI-0364	Information Compression and Coding	SD	2	-	1	-	42	Ex	4	58	
PACHET 2											
IETI-1020	Audio engineering - project	SD	-	-	-	1	14	Vp	1	11	
IETI-0672	Information compression and encoding	SD	-	-	-	1	14	Vp	1	11	
PACHET 3											
IETI-0100	Computer Architecture	SD	2	-	1	-	42	Ex	4	58	
IETI-0449	Computer networks	SD	2	-	1	-	42	Ex	4	58	
TOTAL			4	-	2	1	98		9	127	
FACULTATIVE											
IETI-0238	New Energy Sources	SD	2	-	1	-	42	Cv	4	58	
IETI-1016	English language VI	CD	-	2	-	-	28	Cv	2	22	
IETI-1203	Life skills in telecommunications	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

CURRICULUM **
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	5	83	
IETI-0388	Telecommunications software	SD	2	-	2	-	56	Ex	4	44	
IETI-0856	Telecommunications Software - Project	SD	-	-	-	1	14	Vp	1	11	
IETI-0857	Networks and services	SD	2	-	2	-	56	Ex	4	44	
IETI-0858	Networks and services - project	SD	-	-	-	1	14	Vp	1	11	
IETI-0859	Techniques and switching systems	SD	2	-	1	-	42	Ex	4	58	
IETI-0860	Techniques and switching systems - project	SD	-	-	-	1	14	Vp	1	11	
IETI-0850	Virtual instrumentation for electronic systems	SD	2	-	1	-	42	Vp	4	58	
TOTAL			10	-	7	3	280		24	320	
OBLIGATORII OPD'2"IONALE											
PACHET 1											
IETI-0376	Telecommunications protocols	SD	2	-	1	-	42	Vp	3	33	
IETI-0386	Radiocommunications Systems	SD	2	-	1	-	42	Vp	3	33	
PACHET 2											
IETI-0863	Techniques and multiplex transmission systems	SD	2	-	1	-	42	Ex	3	33	
IETI-0369	Satellite Communications	SD	2	-	1	-	42	Ex	3	33	
TOTAL			4	-	2	-	84		6	66	
FACULTATIVE											
IETI-0365	4G Communications	SD	2	-	1	-	42	Cv	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-0870	Mobile networks	SD	2	-	1	-	42	Ex	4	58	
IETI-1013	Neural networks	SD	2	-	2	-	56	Vp	4	44	
IETI-1021	Network architectures and Internet	DD	2	-	2	-	56	Ex	4	44	
IETI-1022	Diploma project development	SD	-	-	-	5	70	Vp	4	30	
IETI-1044	Practice for the diploma project	SD	-	-	-	-	60	Cv	4	40	
TOTAL			6	-	5	5	284		20	216	
OBLIGATORII OPD'2"IONALE											
PACHET 1											
IETI-0367	Optical Communication	SD	2	-	2	-	56	Ex	4	44	
IETI-0380	Synchronous Optical Networks	SD	2	-	2	-	56	Ex	4	44	
PACHET 2											
IETI-0864	Data Communications Security	SD	2	-	1	-	42	Vp	3	33	
IETI-0358	Encryptions Algorithms for Telecommunications Networks	SD	2	-	1	-	42	Vp	3	33	
PACHET 3											
IETI-0865	Traffic Engineering	SD	2	-	1	-	42	Ex	3	33	
IETI-0396	Telecommunication Equipments Testing	SD	2	-	1	-	42	Ex	3	33	
TOTAL			6	-	4	-	140		10	110	
FACULTATIVE											
IETI-1047	English language VII	CD	-	2	-	-	28	Cv	2	22	

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