

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										
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	SD	2	-	1	-	42	Vp	4	58	
IETI-1103	Computer programming and programming languages I	FD	2	-	2	-	56	Vp	3	19	
IETI-0832	Passive components and circuits	SD	2	2	-	-	56	Ex	5	69	
IETI-0998	English language I	CD	-	1	-	-	14	Vp	2	36	
	TOTAL		14	9	5	-	392		30	358	
	FACULTATIVE										
IETI-0024	Educational psychology	CD	-	1	-	-	14	Vp	2	36	
IETI-0999	Physical Education and Sport I	CD	-	1	-	-	14	A/R	2	36	

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										
IETI-0009	Special mathematics	FD	2	2	-	-	56	Ex	4	44	
IETI-0932	Internet programming techniques	SD	2	-	1	-	42	Vp	4	58	
IETI-0831	Material for electronics	SD	2	-	1	-	42	Vp	3	33	
IETI-0834	Electronic devices	SD	2	-	2	-	56	Ex	5	69	
IETI-0835	Fundamentals of Electrical Engineering I	SD	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	4	8	-	364		30	386	
	FACULTATIVE										
IETI-0020	Pedagogy I	CD	2	1	-	-	42	Vp	2	8	
IETI-1241	Technological practice	SD	-	-	-	-	90	Vp	3	0	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	2	36	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;

GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.

Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
lecturer dr. eng. Adrian Traian BURCA

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Associate Professor dr. GERGELY Eugen Ioan

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										
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	-	2	-	56	Ex	4	44	
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	11	2	392		30	358	
	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										
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	3	7	2	454		30	296	
	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	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;

GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution.

Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
lecturer dr. eng. Adrian Traian BURCARECTOR,
Professor Dr. BUNGĂU ConstantinDEAN,
Associate Professor dr. GERGELY Eugen Ioan

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										
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	
	OPTIONALE										
	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										
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	
	OPTIONALE										
	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	

Legend: C - Course; S - Seminar; L - Practical (laboratory); P - Project; IS - Individual Study;

GD - General Discipline; FD - Fundamental Discipline; SD - Specialized Discipline; CD - Complementary Discipline; FD - Field Discipline; DP - Practical Activities; UO - University Choice; DR - Disciplines relevant to the students' training in a certain field, available according to the options of the institution. Type of Examination - Verification Form, Ex. - examination; Cv. - Colloquium, Vp. - Continuous Assessment, Pr - Project; A/R- Passed/Failed; Credits - number of ECTS credits; IS - Individual study.

Head of department ,
lecturer dr. eng. Adrian Traian BURCA

RECTOR,
Professor Dr. BUNGĂU Constantin

DEAN,
Associate Professor dr. GERGELY Eugen Ioan

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 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										
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	
	OPTIONALE										
	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										
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	
	OPTIONALE										
	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	