

**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					
	<b>OBLIGATORII IMPUSE</b>										
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	
	<b>TOTAL</b>		<b>13</b>	<b>8</b>	<b>5</b>	<b>-</b>	<b>364</b>		<b>30</b>	<b>386</b>	
IETI-0999	Physical Education and Sport I	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
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					
	<b>OBLIGATORII IMPUSE</b>										
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	
	<b>TOTAL</b>		<b>14</b>	<b>5</b>	<b>7</b>	<b>-</b>	<b>364</b>		<b>30</b>	<b>386</b>	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
IETI-0020	Pedagogy I	CD	2	1	-	-	42	Vp	2	8	
IETI-1241	Technological practice	DD	-	-	-	-	90	Vp	3	0	

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

**RECTOR,  
Professor Dr. BUNGĂU Constantin**

**DEAN,  
Associate Professor dr. GERGELY Eugen Ioan**

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Professor dr. HATHAZI Francisc Ioan**

**UNIVERSITY OF ORADEA**  
**FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY**  
 Licence's Degree Program: **NETWORKS AND SOFTWARES FOR TELECOMUNICATIONS**  
 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 1<sup>st</sup> year of  
study

**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					
	<b>OBLIGATORII IMPUSE</b>										
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	
	<b>TOTAL</b>		<b>14</b>	<b>1</b>	<b>9</b>	<b>2</b>	<b>364</b>		<b>30</b>	<b>386</b>	
IETI-1003	Physical Education and Sport III	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
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					
	<b>OBLIGATORII IMPUSE</b>										
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	
	<b>TOTAL</b>		<b>14</b>	<b>4</b>	<b>7</b>	<b>1</b>	<b>454</b>		<b>30</b>	<b>296</b>	
IETI-1006	Physical Education and Sport IV	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
IETI-0563	Project management	CD	2	1	-	-	42	Vp	2	8	
IETI-0018	Didactics of the specialization	CD	2	1	-	-	42	Vp	2	8	



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	
	<b>TOTAL</b>		<b>10</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>356</b>		<b>21</b>	<b>169</b>	
	<b>OBLIGATORII OPȚIONALE</b>										
	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	
	<b>TOTAL</b>		<b>4</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>98</b>		<b>9</b>	<b>127</b>	
	<b>FACULTATIVE</b>										
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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**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					
	<b>OBLIGATORII IMPUSE</b>										
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	
	<b>TOTAL</b>		<b>10</b>	<b>-</b>	<b>7</b>	<b>3</b>	<b>280</b>		<b>24</b>	<b>320</b>	
	<b>OBLIGATORII OPŢIONALĂ</b>										
	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	
	<b>TOTAL</b>		<b>4</b>	<b>-</b>	<b>2</b>	<b>-</b>	<b>84</b>		<b>6</b>	<b>66</b>	
	<b>FACULTATIVE</b>										
IETI-0365	4G Communications	SD	2	-	1	-	42	Cv	3	33	

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			C	S	L	P					
	<b>OBLIGATORII IMPUSE</b>										
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	
	<b>TOTAL</b>		<b>6</b>	<b>-</b>	<b>5</b>	<b>5</b>	<b>284</b>		<b>20</b>	<b>216</b>	
	<b>OBLIGATORII OPŢIONALĂ</b>										
	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	
	<b>TOTAL</b>		<b>6</b>	<b>-</b>	<b>4</b>	<b>-</b>	<b>140</b>		<b>10</b>	<b>110</b>	
	<b>FACULTATIVE</b>										
IETI-1047	English language VII	CD	-	2	-	-	28	Cv	2	22	

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