

**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	1	-	-	42	Ex	4	58	
IETI-0002	Linear algebra, analytical and differential geometry	FD	2	1	-	-	42	Ex	3	33	
IETI-0769	Applied informatics	FD	2	-	2	-	56	Ex	4	44	
IETI-0013	Physics	FD	2	1	-	-	42	Ex	4	58	
IETI-1048	Computer-Assisted Graphics I	FD	2	-	2	-	56	Vp	4	44	
IETI-1046	Quality and reliability	DD	2	1	-	-	42	Vp	3	33	
IETI-0189	Elements of mechanical engineering	DD	2	-	1	-	42	Vp	3	33	
IETI-0212	Technological methods and procedures	DD	2	-	1	-	42	Vp	3	33	
IETI-0548	Modern languages I	CD	-	1	-	-	14	Vp	2	36	
	<b>TOTAL</b>		<b>16</b>	<b>5</b>	<b>6</b>	<b>-</b>	<b>378</b>		<b>30</b>	<b>372</b>	
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					
	<b>OBLIGATORII IMPUSE</b>										
IETI-0009	Special mathematics	FD	2	2	-	-	56	Ex	4	44	
IETI-0247	Electromagnetic field theory	DD	2	1	2	-	70	Ex	6	80	
IETI-0205	Electrotechnic materials	DD	2	-	2	-	56	Ex	5	69	
IETI-0409	Strength of materials and mechanisms	SD	2	1	-	-	42	Vp	3	33	
IETI-1049	Computer-Assisted Graphics II	FD	2	-	2	-	56	Vp	5	69	
IETI-0186	Equations of mathematical physics	FD	2	-	2	-	56	Ex	5	69	
IETI-0549	Modern Languages II	CD	-	1	-	-	14	Vp	2	36	
	<b>TOTAL</b>		<b>12</b>	<b>5</b>	<b>8</b>	<b>-</b>	<b>350</b>		<b>30</b>	<b>400</b>	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
IETI-1241	Technological practice	DD	-	-	-	-	90	Cv	3	0	

**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 Ph.D eng. ARION Mircea-Nicolae**

**RECTOR,  
Professor Dr. BUNGĂU Constantin**

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

**FACULTY OF ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY**

 Licence's Degree Program: **ELECTROMECHANICS (AT BEIUS)**

 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)**

 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-0210	Numerical methods	FD	2	2	2	-	84	Ex	6	66	
IETI-0203	Electric and electronic measurements I	DD	2	-	2	-	56	Ex	5	69	
IETI-0315	Analogical and digital electronics I	DD	2	-	1	-	42	Ex	4	58	
IETI-0248	Theory of electrical circuits I	DD	2	1	2	-	70	Ex	5	55	
IETI-0194	Bond graphs in electrotechnics	SD	2	-	1	-	42	Vp	3	33	
IETI-0138	Computer programming and programming languages	FD	2	-	2	-	56	Ex	4	44	
IETI-0550	Modern Languages III	CD	-	1	-	-	14	Vp	2	36	
	<b>TOTAL</b>		<b>12</b>	<b>4</b>	<b>10</b>	<b>-</b>	<b>364</b>		<b>29</b>	<b>361</b>	
	<b>OBLIGATORII OPȚIONALE</b>										
IETI-0487	Communication	CD	1	-	-	-	14	Vp	1	11	
IETI-1108	Academic Ethics and Integrity	CD	1	-	-	-	14	Vp	1	11	
	<b>TOTAL</b>		<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>14</b>		<b>1</b>	<b>11</b>	
IETI-1003	Physical Education and Sport III	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
IETI-0511	Philosophy	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-0249	Theory of electrical circuits II	DD	2	1	2	-	70	Ex	5	55	
IETI-0272	Electrical machines I	DD	2	-	2	-	56	Ex	4	44	
IETI-0316	Analogical and digital electronics II	DD	2	-	2	-	56	Ex	4	44	
IETI-0204	Electric and electronic measurements II	DD	2	-	2	-	56	Ex	4	44	
IETI-0244	Electrical technologies	SD	2	-	1	-	42	Vp	4	58	
IETI-0551	Modern Languages IV	CD	-	1	-	-	14	Vp	2	36	
IETI-1037	Domain practice	DD	-	-	-	-	90	Vp	4	10	
	<b>TOTAL</b>		<b>10</b>	<b>2</b>	<b>9</b>	<b>-</b>	<b>384</b>		<b>27</b>	<b>291</b>	
	<b>OBLIGATORII OPȚIONALE</b>										
IETI-0242	Programming techniques	SD	2	-	1	-	42	Vp	3	33	
IETI-0478	Web technologies	SD	2	-	1	-	42	Vp	3	33	
	<b>TOTAL</b>		<b>2</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>42</b>		<b>3</b>	<b>33</b>	
IETI-1006	Physical Education and Sport IV	CD	-	1	-	-	14	A/R	1	11	
	<b>FACULTATIVE</b>										
IETI-0504	General Economics	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.

**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					
	<b>OBLIGATORII IMPUSE</b>										
IETI-0273	Electrical machines II	DD	2	-	1	-	42	Ex	4	58	
IETI-0685	Electrical machines II - Project	DD	-	-	-	1	14	Vp	3	61	
IETI-0182	Electrical equipments	DD	2	-	2	-	56	Ex	4	44	
IETI-1060	Static Power Converters	DD	2	-	2	-	56	Ex	4	44	
IETI-0142	Computer Aided design	SD	2	-	1	-	42	Ex	4	58	
IETI-0176	Electromagnetic compatibility	DD	2	-	-	2	56	Ex	4	44	
IETI-1061	Theory of Systems and Automated Regulation	DD	2	-	1	-	42	Vp	3	33	
	<b>TOTAL</b>		<b>12</b>	<b>-</b>	<b>7</b>	<b>3</b>	<b>308</b>		<b>26</b>	<b>342</b>	
	<b>OBLIGATORII OPŢŢIONALE</b>										
IETI-0240	Microwave technique	SD	2	-	-	1	42	Ex	4	58	
IETI-1105	Equipment testing	SD	2	-	-	1	42	Ex	4	58	
	<b>TOTAL</b>		<b>2</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>42</b>		<b>4</b>	<b>58</b>	
	<b>FACULTATIVE</b>										
IETI-1111	Modern languages V	CD	-	2	-	-	28	Vp	2	22	
IETI-0638	Work science and human resources	CD	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					
	<b>OBLIGATORII IMPUSE</b>										
IETI-0412	Electrical drives I	DD	2	-	2	-	56	Ex	4	44	
IETI-0197	Electrical installations	SD	2	-	1	-	42	Ex	3	33	
IETI-0882	Modern Electric Traction Systems	SD	2	-	1	-	42	Ex	3	33	
IETI-0460	Microprocessor systems	DD	2	-	1	-	42	Vp	3	33	
IETI-0552	Management	DD	2	-	-	-	28	Vp	2	22	
IETI-0469	Electro-hydro-pneumatic systems	SD	2	-	1	-	42	Vp	2	8	
IETI-1038	Specialty practice	SD	-	-	-	-	90	Vp	4	10	
	<b>TOTAL</b>		<b>12</b>	<b>-</b>	<b>6</b>	<b>-</b>	<b>342</b>		<b>21</b>	<b>183</b>	
	<b>OBLIGATORII OPŢŢIONALE</b>										
	PACHET 1										
IETI-0451	Robots	SD	2	-	1	-	42	Vp	3	33	
IETI-1064	Industrial Robotics	SD	2	-	1	-	42	Vp	3	33	
	PACHET 2										
IETI-0283	Electromechanical industrial equipment	SD	2	-	1	-	42	Ex	3	33	
IETI-0976	Sequentially control of the electromechanical systems	SD	2	-	1	-	42	Ex	3	33	
	PACHET 3										
IETI-0223	Numerical systems design	SD	2	-	1	-	42	Vp	3	33	

IETI-0977	Advanced numerical equipments in electromechanical systems	SD	2	-	1	-	42	Vp	3	33	
	<b>TOTAL</b>		<b>6</b>	<b>-</b>	<b>3</b>	<b>-</b>	<b>126</b>		<b>9</b>	<b>99</b>	
	<b>FACULTATIVE</b>										
IETI-1112	Modern languages VI	CD	-	2	-	-	28	Vp	2	22	
IETI-0449	Computer networks	SD	2	-	1	-	42	Vp	2	8	
IETI-0963	Telecommunications systems	SD	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.



IETI-0276	Electromechanical microsystems	SD	2	-	2	-	56	Vp	3	19	
IETI-0958	Microcontrollers and embedded systems	SD	2	-	2	-	56	Vp	3	19	
	<b>TOTAL</b>		<b>4</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>98</b>		<b>5</b>	<b>27</b>	
	<b>Examen de diplomă</b> □										
IETI-0901	Diploma exam	SD	-	-	-	-	0	Ex	10	250	

**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.