

**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-0002	Linear algebra, analytical and differential geometry	FD	2	2	-	-	56	Ex	4	48	
IETI-0003	Mathematical Analysis	FD	2	2	-	-	56	Ex	4	48	
IETI-0013	Physics	FD	2	2	-	-	56	Ex	4	48	
IETI-0783	Computer programming and programming languages I	FD	2	-	2	-	56	Vp	4	48	
IETI-0990	Mechanics	DD	2	-	1	-	42	Ex	4	62	
IETI-0769	Applied informatics	FD	2	-	2	-	56	Vp	5	74	
IETI-1086	Analysis and synthesis of digital devices	DD	2	-	1	-	42	Vp	3	36	
<b>TOTAL</b>			<b>14</b>	<b>6</b>	<b>6</b>	<b>-</b>	<b>364</b>		<b>28</b>	<b>364</b>	
<b>OBLIGATORII OPȚIONALE</b>											
IETI-0538	Foreign Language I	CD	-	1	-	-	14	Vp	2	38	
<b>TOTAL</b>			<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>14</b>		<b>2</b>	<b>38</b>	
IETI-0999	Physical Education and Sport I	CD	-	1	-	-	14	A/R	1	12	
<b>FACULTATIVE</b>											
IETI-0518	History of science and civilization	CD	2	1	-	-	42	Vp	3	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					
<b>OBLIGATORII IMPUSE</b>											
IETI-0009	Special mathematics	FD	2	2	-	-	56	Ex	4	48	
IETI-1085	Theory of probability and mathematical statistics	FD	2	1	-	-	42	Vp	3	36	
IETI-0785	Computer programming and programming languages II	FD	2	-	2	-	56	Ex	5	74	
IETI-0262	Electrotechnics I	DD	2	1	1	-	56	Ex	5	74	
IETI-0991	Linear electronic circuits I	DD	2	-	1	-	42	Ex	4	62	
IETI-0193	Computer aided graphics	FD	2	-	2	-	56	Vp	3	22	
IETI-0799	Operating systems in automation	SD	2	-	1	-	42	Vp	4	62	
<b>TOTAL</b>			<b>14</b>	<b>4</b>	<b>7</b>	<b>-</b>	<b>350</b>		<b>28</b>	<b>378</b>	
<b>OBLIGATORII OPȚIONALE</b>											
IETI-0590	Foreign Language II	CD	-	1	-	-	14	Vp	2	38	
<b>TOTAL</b>			<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>14</b>		<b>2</b>	<b>38</b>	
IETI-1000	Physical Education and Sport II	CD	-	1	-	-	14	A/R	1	12	

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**Head of department ,**  
**Professor Dr. Helga SILAGHI**

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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					
<b>OBLIGATORII IMPUSE</b>											
IETI-0132	Object Oriented Programming	SD	2	-	2	-	56	Ex	4	48	
IETI-0479	Systems theory I	DD	2	2	-	-	56	Ex	5	74	
IETI-0993	Measurements and transducers	DD	2	-	1	-		Ex	3	78	
IETI-0263	Electrotechnics II	DD	2	1	1	-	56	Ex	5	74	
IETI-0116	Digital Electronics I	DD	2	-	1	-	42	Ex	3	36	
IETI-0992	Linear electronic circuits II	DD	2	-	1	-		Vp	4	104	
IETI-0210	Numerical methods	FD	2	-	2	-	56	Vp	4	48	
<b>TOTAL</b>			<b>14</b>	<b>3</b>	<b>8</b>	<b>-</b>	<b>350</b>		<b>28</b>	<b>378</b>	
<b>OBLIGATORII OPȚIONALE</b>											
IETI-0542	Foreign Language III	CD	-	1	-	-	14	Vp	2	38	
<b>TOTAL</b>			<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>14</b>		<b>2</b>	<b>38</b>	
IETI-1003	Physical Education and Sport III	CD	-	1	-	-		A/R	1	26	

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-0480	Systems theory II	DD	2	2	2	-	84	Ex	6	72	
IETI-0117	Digital Electronics II	DD	2	-	1	-	42	Ex	3	36	
IETI-1087	Signal processing	SD	2	-	1	-		Vp	3	78	
IETI-0264	Industrial electrotechnics	SD	2	-	1	-	42	Ex	4	62	
IETI-0360	Computer Architectures	DD	2	-	1	-		Ex	3	78	
IETI-0445	Computer aided design in automation	SD	2	-	1	1	56	Vp	4	48	
IETI-0318	Power electronics	SD	2	-	1	-	42	Ex	3	36	
IETI-0037	Practice I	DD	-	-	-	-	84	Cv	2	0	
<b>TOTAL</b>			<b>14</b>	<b>2</b>	<b>8</b>	<b>1</b>	<b>434</b>		<b>28</b>	<b>326</b>	
<b>OBLIGATORII OPȚIONALE</b>											
IETI-0544	Foreign Language IV	CD	-	1	-	-	14	Vp	2	38	
<b>TOTAL</b>			<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>14</b>		<b>2</b>	<b>38</b>	
IETI-1006	Physical Education and Sport IV	CD	-	1	-	-		A/R	1	26	
<b>FACULTATIVE</b>											
IETI-0489	Professional communication	CD	2	1	-	-	42	Vp	3	36	

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**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-0457	Systems with integrated programmable circuits I	DD	2	-	1	-	42	Ex	4	62	
IETI-0442	Modelling and simulation	DD	2	-	2	-	56	Vp	5	74	
IETI-0253	Transducers and sensors	DD	2	-	1	-	42	Ex	3	36	
IETI-0800	Electrical drives in automation I	DD	2	-	2	-	56	Ex	5	74	
IETI-0424	Experimentally systems identification	DD	2	-	2	-	56	Ex	5	74	
<b>TOTAL</b>			<b>10</b>	<b>-</b>	<b>8</b>	<b>-</b>	<b>252</b>		<b>22</b>	<b>320</b>	
<b>OBLIGATORII OPȚIONALE</b>											
PACHET 1											
IETI-0421	Electro-hydro-pneumatic equipments in automation	SD	2	-	2	-	56	Vp	4	48	
IETI-0478	Web technologies	SD	2	-	2	-	56	Vp	4	48	
PACHET 2											
IETI-0131	Real time programming	SD	2	-	2	-	56	Vp	4	48	
IETI-0803	Computer networks in automation	SD	2	-	2	-	56	Vp	4	48	
<b>TOTAL</b>			<b>4</b>	<b>-</b>	<b>4</b>	<b>-</b>	<b>112</b>		<b>8</b>	<b>96</b>	
<b>FACULTATIVE</b>											
IETI-0804	Foreign language V	CD	-	2	-	-	28	Vp	2	24	

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-0458	Systems with integrated programmable circuits II	DD	2	-	1	-	42	Vp	4	62	
IETI-0430	Control systems engineering I	DD	2	-	1	-	42	Ex	4	62	
IETI-0416	Programmable logic controllers	DD	2	-	2	1	70	Ex	5	60	
IETI-0801	Electrical drives in automation II	DD	2	-	2	1	70	Ex	5	60	
IETI-0038	Practice II	SD	-	-	-	-	86	Cv	2	0	
<b>TOTAL</b>			<b>8</b>	<b>-</b>	<b>6</b>	<b>2</b>	<b>310</b>		<b>20</b>	<b>244</b>	
<b>OBLIGATORII OPȚIONALE</b>											
PACHET 1											
IETI-0440	Microcontrollers in automatics	SD	2	-	2	-	56	Ex	4	48	
IETI-0802	Automatic systems	SD	2	-	2	-	56	Ex	4	48	
PACHET 2											
IETI-0123	Software engineering	SD	2	-	1	-	42	Vp	3	36	
IETI-0459	Discrete events systems	SD	2	-	1	-	42	Vp	3	36	
PACHET 3											
IETI-0504	General Economics	CD	2	1	-	-	42	Vp	3	36	
IETI-0497	Business law	CD	2	1	-	-	42	Vp	3	36	
<b>TOTAL</b>			<b>6</b>	<b>1</b>	<b>3</b>	<b>-</b>	<b>140</b>		<b>10</b>	<b>120</b>	
<b>FACULTATIVE</b>											
IETI-0638	Work science and human resources	CD	2	2	-	-	56	Vp	3	22	
IETI-0805	Foreign language VI	CD	-	2	-	-	28	Vp	2	24	

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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					
<b>OBLIGATORII IMPUSE</b>											
IETI-0454	Adaptive and optimal systems	DD	2	-	2	-	56	Vp	4	56	
IETI-0431	Control systems engineering II	DD	2	-	2	1	70	Ex	6	98	
IETI-0453	Robotics	DD	2	-	2	-	56	Ex	5	84	
IETI-0423	Automatic systems reliability	SD	2	-	-	1	42	Ex	4	70	
IETI-0552	Management	CD	2	-	1	-	42	Vp	3	42	
<b>TOTAL</b>			<b>10</b>	<b>-</b>	<b>7</b>	<b>2</b>	<b>266</b>		<b>22</b>	<b>350</b>	
<b>OBLIGATORII OPȚIONALE</b>											
PACHET 1											
IETI-0434	Process interfaces	SD	2	-	1	-	42	Vp	3	42	
IETI-0418	Energy quality in electrical drives systems	SD	2	-	1	-	42	Vp	3	42	
PACHET 2											
IETI-0267	Virtual instrumentation	SD	2	-	1	1	56	Ex	5	84	
IETI-0462	Command and control systems for electrical drives	SD	2	-	1	1	56	Ex	5	84	
<b>TOTAL</b>			<b>4</b>	<b>-</b>	<b>2</b>	<b>1</b>	<b>98</b>		<b>8</b>	<b>126</b>	
<b>FACULTATIVE</b>											
IETI-0439	Scientific research methodology	SD	2	-	1	-	42	Vp	3	42	

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					
<b>OBLIGATORII IMPUSE</b>											
IETI-0419	Industrial robots control	SD	2	-	1	1	56	Vp	4	56	
IETI-0426	Control systems informatics	SD	3	-	1	1	70	Ex	5	70	
IETI-0806	Practice for diploma project development	SD	-	-	-	5	70	Vp	10	210	
<b>TOTAL</b>			<b>5</b>	<b>-</b>	<b>2</b>	<b>7</b>	<b>196</b>		<b>19</b>	<b>336</b>	
<b>OBLIGATORII OPȚIONALE</b>											
PACHET 1											
IETI-0473	Industrial informatic systems	SD	2	-	2	-	56	Vp	4	56	
IETI-0425	Biomedical informatics	SD	2	-	2	-	56	Vp	4	56	
PACHET 2											
IETI-0433	Artificial Intelligence	SD	2	-	1	-	42	Ex	3	42	
IETI-0471	Fuzzy systems and neuronal networks	SD	2	-	1	-	42	Ex	3	42	
PACHET 3											
IETI-0467	Advanced control systems	SD	3	-	2	-	70	Ex	4	42	
IETI-0463	Distributed control systems	SD	3	-	2	-	70	Ex	4	42	
<b>TOTAL</b>			<b>7</b>	<b>-</b>	<b>5</b>	<b>-</b>	<b>168</b>		<b>11</b>	<b>140</b>	
<b>FACULTATIVE</b>											
IETI-0432	Production systems engineering	CD	2	2	-	-	56	Vp	3	28	
IETI-0435	Inventions	SD	2	2	-	-	56	Vp	3	28	

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