

“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAȘI

FACULTY OF ELECTRICAL ENGINEERING

Domain: Electrical Engineering

Specialization: **Electrical Systems**

Graduate title: Engineer, bachelor

Length of studies: 4 years

Form of education: with frequency

CURRICULUM

1st YEAR

Crt. no	Course title	Course code UTI.EH...	Conditionnings	1st semester						2nd semester									
				Hours/week/ discipline						V	K	Hours/week/ discipline						V	K
				C	S	L	P	S	I			C	S	L	P	S	I		
101	Mathematical Analysis	EH1.101.DF.DI		2	2			3	E	5									
102	Linear Algebra, Analytic and Differential Geometry	EH1.102.DF.DI		2	2			3	E	5									
103	Physics	EH1.103.DF.DI		3	1	1		3	E	6									
104	Computer assisted Graphics I	EH1.104.DF.DI		1		1		1	C	3									
105	Applied Informatics I	EH1.105.DF.DI		1		2	1	2	E	5									
106	Computer Programming and Programming Languages I	EH1.106.DF.DI		1		2		2	C	4									
DI	107	Differential Equations and Operational Calculus	EH1.107.DF.DI	C1, C2							2	2			2	E	5		
	108	Computer Programming and Programming Languages II	EH1.108.DF.DI	C3							2	2			2	E	5		
	109	Computer assisted Graphics II	EH1.109.DF.DI	C4							2	2			2	VP	4		
	110	Electromagnetic Field Theory	EH1.110.DID.DI								2	1	1		3	E	5		
	111	Physics – Elements of Newtonian Mechanics	EH1.111.DF.DI								2	1			1	E	3		
	112	Hydraulic and Pneumatic Drives	EH1.112.DID.DI								2	1			1	C	3		
	113	Mechanical Engineering	EH1.113.DID.DI								2		1	1	1	C	2		
	114	Modern Languages	EH1.114.DC.DI			1			1	C	1		1		1	C	1		
115	Physical Training	EH1.115.DC.DI				1						1			A/R	2			
DO	116	Intellectual Work Techniques	EH1.116.1.DC.D O			1				VP	1								
		Professional Communication	EH1.116.2.DC.D O																
DL	117	Modern Languages	EH1.117.DC.DL			1				C	1		1			C	1		
	118	Physical Training	EH1.118.DC.DL				1			A/R	1								
	119	Ensemble Sports	EH1.119.DC.DL									1			A/R	1			
	120	Personal Development	EH1.120.DC.DL		1	1					C	2							
	121	Mathematics	EH1.121.DF.DL			1					C	1							
Total hours per week, total tests number per semester and total credits per semester, for DI and DO					10	7	7	1	15	4E 4C	30	14	5	7	1	13	4E 3C	3 0	
					25			15	27			13							

Conditionnings	Previous compulsory discipline	
	Title	Code
C1	Mathematical Analysis	UTI.EH.EH1.101.DF.DI
C2	Linear Algebra, Analytic and Differential Geometry	UTI.EH.EH1.102.DF.DI
C3	Computer Programming and Programming Languages I	UTI.EH.EH1.106.DF.DI
C4	Computer assisted Graphics I	UTI.EH.EH1.104.DF.DI

DEAN,

Prof.univ.dr.ing. Marinel Temneanu

RECTOR,

Prof.univ.dr.ing. Dan Cașcaval

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CURRICULUM

2nd YEAR

Crt. no	Course title	Course code UTI.EH...	Conditionnings	1st semester						2nd semester									
				Hours/week/ discipline					V	K	Hours/week/ discipline					V	K		
				C	S	L	P	SI			C	S	L	P	SI				
DI	201	Electronics	EL.201.DID.DI		2		2		2	C	4								
	202	Electrical Circuits Theory I	EL.202.DID.DI		2	1	1		2	E	5								
	203	Electrotechnical Materials	EL.203.DID.DI		2		3		2	E	6								
	204	Numerical Analysis	EL.204.DF.DI	C1	2		1		2	E	3								
	205	Quality and Reliability	EL.205.DID.DI		2		1		1	C	3								
	206	Systems Theory	EL.206.DID.DI	C2	3		2		2	E	6								
	207	Web Technologies	EL.207.DS.DI	C1	2		1		2	C	3								
	208	Electrical Circuits Theory II	EL.208.DID.DI	C3									2	1	1		3	E	4
	209	Electrical Measurements I	EL.209.DID.DI										2		3		3	E	5
	210	Electrical Machines I	EL.210.DID.DI	C3									2		3		3	C	5
	211	Electrical Apparatus	EL.211.DID.DI										2		2		3	E	4
	212	Static Converters I	EL.212.DID.DI										2		2		2	E	4
	213	Physical Training	EL.213.DC.DI				1								1			AR	1
	214	Practice, 3 weeks. x 40 h/week=120 h	EL.214.DID.DI															C	4
DO	215	General Economics and Marketing	EL.215.1.DC.DO									2	1			1	C	3	
		Marketing Strategies	EL.215.2.DC.DO																
DL	216	Computing and Programming Methods in Electrical Engineering I	EL.216.DC.DL				2			C	2								
	217	Computing and Programming Methods in Electrical Engineering II	EL.217.DC.DL										2				C	2	
	218	Modern Languages	EL.218.DC.DL			1				C	1	1					C	1	
	219	European Civilization and Institutions	EL.219.DC.DL		1					C	1								
	220	Special Mathematics	220.DF.DL		1		1			C	2								
Total hours per week, total tests number per semester and total credits per semester, for DI and DO					15	1	12		13	4E 2C	30	12	2	12		15	4E 3C	30	
					28				13				26				15		

Conditionnings	Previous compulsory discipline	
	Title	Code
C1	Mathematical Analysis	UTI.EH.EH1.101.DF.DI
C2	Computer Programming and Programming Languages I	UTI.EH.EH1.106.DF.DI
C3	Electrical Circuits Theory I	UTI.EH.EL.203.DID.DI

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CURRICULUM

3rd YEAR

Crt. no	Course title	Course code UTI.EH...	Conditionings	1st semester						2nd semester								
				Hours/week/ discipline					V	K	Hours/week/ discipline					V	K	
				C	S	L	P	SI			C	S	L	P	SI			
DI	301	Electrical Measurements II	EL.301.DID.DI	C3	2	2	1	3	E	6								
	302	Electrical Machines II	EL.302.DID.DI	C1	2	2	1	3	E	6								
	303	Use of Electrical Energy	EL.303.DID.DI		2	2	2		C	4								
	304	Digital Circuits	EL.304.DID.DI		2	2	2		E	5								
	305	Electrical Energy Production and Distribution	EL.305.DID.DI		2	1	1		C	4								
	306	Electrical Drives	EL.306.DID.DI								2	2	2	E	4			
	307	Electromagnetic Compatibility	EL.307.DID.DI								2	1	2	C	3			
	308	Switching Techniques	SE.308.DS.DI	C2	3	2	3		E	5								
	309	Special Electrical Machines	EL.309.DS.DI	C1							2	2	2	E	4			
	310	Microprocessors and Microsystems	EL.310.DID.DI								2	1	2	E	3			
	311	Special Problems of Electrical Machines	SE.311.DS.DI	C1							2		1	2	C	2		
	315	Modelling and Simulation of Electrical Machines	SE.315.DS.DI	C1							2	1	1	C	3			
313	Practice, 3 weeks x 40 h/week=120 h	EL.313.DID.DI													C	4		
DO	312	Sensors and Transducers	EL.312.1.DID.DO															
		Elements for Interfacing and Remote Control	EL.312.2.DID.DO								2	1	1	E	3			
	314	Low Voltage Electrical Installations	EL.314.1.DS.DO								2		2	2	E	4		
	Electrical Installations Design	EL.314.2.DS.DO																
DL	316	Multimedia in education	EL.316.DC.DL								2	1			C	3		
	317	Design and Development of Teaching Means	EL.317.DC.DL		2	1		1	C	3								
Total hours per week, total tests number per semester and total credits per semester, for DI and DO					13	0	11	2	14	4E 2C	30	16	0	8	3	14	5E 4C	30

Conditionings	Previous compulsory discipline	
	Title	Code
C1	Electrical Machines I	UTI.EH.EL.210.DID.DI
C2	Electrical Apparatus	UTI.EH.EL.211.DID.DI
C3	Electrical Measurements I	UTI.EH.EL.209.DID.DI

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CURRICULUM

4th YEAR

Crt. no	Course title	Course code UTI.EH...	Conditionings	1st semester						2nd semester								
				Hours/week/ discipline					V	K	Hours/week/ discipline					V	K	
				C	S	L	P	SI			C	S	L	P	SI			
DI	401	Numerical Analysis of Electrical Machines	SE.401.DS.DI	C1,C3	3			3	4	E	7							
	402	Test of Electrical Machines	SE.402.DS.DI	C1,C3	3		2		2	E	6							
	403	Electrical Machines Transient Regimes	SE.403.DS.DI	C2	2		2		1	C	5							
	404	Numerical Analysis of Electrical Apparatus	SE.404.DS.DI	C2								2			2	2	E	4
	405	Programmable Logic Controllers	SE.405.DS.DI									3		2		2	E	5
	406	Diploma Project Preparation	SE.406.DS.DI												6	6	C	6
	407	Practice for Diploma Project Drafting, 3 weeks x 40 h/week = 120 h	SE.407.DS.DI														C	4
	416	Diploma project defend**	SE.416.DS.DI														E	10
DO	408	Manipulators and Industrial Robots	SE.408.1.DS.DO									2		1		1	C	3
		Electrical Machines Command and Control	SE.408.2.DS.DO															
	409	Electrical Traction	SE.409.1.DS.DO									3		1		2	C	4
		Quality Control of Electrical Apparatus	SE.409.2.DS.DO															
	410	Special Electrical Machines	SE.410.1.DS.DO		3		1	1	3	E	5							
		Unconventional Electrical Machines	SE.410.2.DS.DO															
	411	Electrical Apparatus Command and Control	SE.411.1.DS.DO	C2	2		2		2	E	4							
		Electrical Apparatus Manufacturing Technology	SE.411.2.DS.DO															
412	Manufacturing Technology of Electrical Machines	SE.412.1.DS.DO	C1								2		1	1	1	E	4	
	Efficient Operation of Electrical Machines	SE.412.2.DS.DO																
413	Management	EL.413.1.DC.DO		2	1			1	C	3								
	Methods in Scientific Research	EL.413.2.DC.DO																
DL	414	European Integration Policies	EL.414.DC.DL		2		1			C	3							
	415	Environmental Management	SE.415.DC.DL									2	1				C	3
Total hours per week, total tests number per semester and total credits per semester, for DI and DO					15	1	7	4	13	4E 2C	30	12	0	5	9	14	3E 4C	30
					27			13				26			14			

*It is accomplished at the diploma co-ordinator, who makes also the evaluation.

**The 10 credits are granted only after succesful defend of the diploma project.

Conditionings	Previous compulsory discipline	
	Title	Code
C1	Electrical Machines II	UTI.EH.SE.303.DID.DI
C2	Switching Techniques	UTI.EH.SE.302.DS.DI
C3	Electromechanical Conversion Systems	UTI.EH.SE.308.DS.DI

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