"GHEORGHE ASACHI" TECHNICAL UNIVERSITY OF IAŞI
FACULTY OF ELECTRICAL ENGINEERING
Domain: Electrical Engineering
Specialization: **Applied Informatics in Electrical Engineering**
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	SI			C	S	L	P	SI		
DI	101	Mathematical Analysis	EH1.101.DF.DI		2	2			3	E	5							
	102	Linear Algebra, Analitic 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							
	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 Fields 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	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 Technique	EH1.116.1.DC.DO			1				VP	1							
		Professional Communication	EH1.116.2.DC.DO															
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	30	14	5	7	1	13	4E	30
					25				**15**	4C		**27**				**13**	3C	

Conditionnings	Previous compulsory discipline	
	Title	Code
C1	Mathematical Analysis	UTI.EH.EH1.101.DF.DI
C2	Linear Algebra, Analytical 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

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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			A/R	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 Electrotechnics I	EL.216.DC.DL				2			C	2							
	217	Computing and Programming Methods in Electrotechnics 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...	Conditionnings	1st semester Hours/week/ discipline C	S	L	P	SI	V	K	2nd semester Hours/week/ discipline C	S	L	P	SI	V	K
DI	301	Modeling and Simulation of Electromagnetic Field Applications	IAIE.301.DS.DI		2			2	2	E	5							
	302	Java Programming	IAIE.302.DS.DI		2		1		2	C	4							
	303	Digital Circuits	IAIE.303.DS.DI		2		2	1	2	E	5							
	304	Electronics Technology Elements	IAIE.304.DS.DI		1		2		2	C	4							
	305	Computer Architecture	IAIE.305.DS.DI									2		2		2	E	4
	306	Electrical Drives	IAIE.306.DID.DI									2		2		2	E	4
	307	Computer Networks	IAIE.307.DID.DI									2		2		2	E	4
	308	Industrial Robots	IAIE.308.DS.DI									2		2		2	E	4
	309	Modern Hardware Description Languages	IAIE.309.DS.DI									2		1		2	VP	3
	310	Communication Systems	IAIE.310.DID.DI									2		1		2	C	3
	311	Practice, 3 weeks x 40 h/week.=120 h	IAIE.311.DID.DI														C	4
DO	312	Analog Systems for Data Processing	IAIE.312.1.DID.DO		2		2	1	2	E	5							
		Data Acquisition and Processing Systems	IAIE.312.2.DID.DO															
	313	Software Aided Instruments for Electrical Engineering	IAIE.313.1.DS.DO		2		2		2	E	4							
		Computer Aided Optimisation of Electrical Circuits	IAIE.313.2.DS.DO															
	314	Information Systems Identification	IAIE.314.1.DS.DO		2		1		1	C	3							
		Systems Simulation and Modelling	IAIE.314.2.DS.DO															
	315	Measurements in Industrial Processes	IAIE.315.1.DID.DO	C1								2		1		3	C	4
		Sensors and Transducers	IAIE.315.2.DID.DO															
DL	316	Multimedia in Education	IAIE.316.DC.DL		1	2				C	3							
	317	Design and Development of Teaching Aids	IAIE.317.DC.DL									2	1				C	3
		Total hours per week, total tests number per semester and total credits per semester, for DI and DO			13	0	10	4	13	4E 3C	**30**	14	0	11	0	15	4E 3C	**30**
					27				**13**			**25**				**15**		

Conditionnings	Previous compulsory discipline	
	Title	Code
C1	Electrical Measurements	UTI.EH.EL.209.DID.DI

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CURRICULUM

4th 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	401	Databases	IAIE.401.DID.DI		2		1		2	C	4							
	402	Computerized Board Systems	IAIE.402.DS.DI		2		1		2	C	4							
	403	Real Time Programming	IAIE.403.DS.DI		2		1		2	E	4							
	404	Microprocessors Based Systems I	IAIE.404.DID.DI		2		2		2	E	5							
	405	Electromagnetic Compability	IAIE.405.DID.DI		2		2		2	E	5							
	406	Smart Sensors	IAIE.406.DS.DI		2		1	1	4	E	4							
	407	Artificial Intelligence Based Systems	IAIE.407.DS.DI									2		1		1	C	3
	408	Digital Signal Processing	IAIE.408.DS.DI									2		1		1	E	3
	409	Microprocessors Based Systems II	IAIE.409.DID.DI									2		1	1	1	E	4
	410	Object Oriented Programming	IAIE.410.DID.DI									2		2		1	C	4
	411	Diploma Project Preparation	IAIE.411.DS.DI												6	6	C	6
	415	Practice for Diploma Project Drafting, 3 weeks x 40 h/week = 120 h*	IAIE.415.DS.DI														C	4
	416	Diploma project defend**	IAIE.416.DS.DI														E	10
DO	412	Expert Systems	IAIE.412.1.DS.DO		2		1		2	C	4							
		Distributed systems	IAIE.412.2.DS.DO															
	413	Regulation Theory and Automatic Control	IAIE.413.1.DS.DO									2		2		1	E	3
		Control engineering	IAIE.413.2.DS.DO															
	414	Measurements in Ecology and Biomedicine	IAIE.414.1.DS.DO									2		2		1	E	3
		Modeling and Analysis of Biological Systems	IAIE.414.2.DS.DO															
DL	417	Quality management	IAIE.417.DID.DL		2	2				C	4							
		Total hours per week, total tests number per semester and total credits per semester, for DI and DO			14	0	9	1	16	4E 3C	**30**	12	0	9	7	12	4E 4C	**30**
					24				**16**			**28**				**12**		

*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.

Conditionnings	Previous compulsory discipline	
	Title	Code

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