

“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAȘI

FACULTY OF ELECTRICAL ENGINEERING

Domain: Engineering and Management

Specialization: **Economic Engineering in Electric, Electronic and Power Domains**

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				
101	Mathematical Analysis	EH2.101.DF.DI		2	2			3	E	5									
102	Linear Algebra, Analytic and Differential Geometry	EH2.102.DF.DI		2	1			2	E	4									
103	Physics	IM.103.DF.DI		2		2		2	E	5									
104	Computer Programming and Programming Languages	IM.104.DF.DI									4		4		4	E	7		
105	Applied Informatics	EH2.105.DF.DI		1		2		1	C	4									
106	Chemistry	IM.106.DF.DI		2		2		2	E	4									
107	Communication	IM.107.DC.DI									2		1		1	E	3		
108	Databases	IEE.108.DID.DI									1		2		2	C	4		
109	Computer Assisted Graphics	IM.109.DF.DI									1		2		2	C	4		
110	Basics of Economics	IM.110.DF.DI									2		1		2	E	4		
111	Elements of Mechanical Engineering	IM.111.DID.DI		3		1		2	C	5									
112	Elements of Electrical Engineering	IM.112.DID.DI	C ₁								2		2		2	E	5		
113	Modern Languages	EH2.113.DC.DI			1			1	VP	1		1			1	C	1		
114	Physical Training	EH2.114.DC.DI				1							1			A/R	2		
DO	115	European Social Law	IM.115.1.DID.DO	1	1			1	C	2									
		Elements of Law and Legislation	IM.115.2.DID.DO																
DL	116	Modern Languages	EH2.116.DC.DL		1				C	1		1				C	1		
	117	Ensemble Sports	EH2.117.DC.DL			1							1			A/R	2		
	118	History of Techniques and Technologies	IEE.118.DC.DL		2	1			C	3									
	119	Personal Development	EH2.120.DC.DL		1	1			C	2									
Total hours per week, total tests number per semester and total credits per semester, for DI and DO				13	5	8	0	14	4E 3C	30	12	1	13	0	14	4E 3C	30		

Conditionnings	Previous compulsory discipline	
	Title	Code
C1	Physics	UTI.EH.IM.103.DF.DI

DEAN,

Prof.univ.dr.ing. Marinela Temneanu

RECTOR,

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CURRICULUM

2nd 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	201	Probability Theory and Mathematical Statistics	IM.201.DF.DI		2		2		2	C	5									
	202	General Management	IM.202.DID.DI		2	1			2	C	4									
	203	Accounting	IM.203.DID.DI		2		1		2	E	4									
	204	Operational research	IM.204.DID.DI		2		1		1	C	3									
	205	Fundamentals of Electrical Engineering	IEE.205.DID.DI		3		2		3	E	5									
	206	Special Mathematics – Systems Theory	IEE.206.DF.DI		3		1		2	E	5									
	207	Finances and Credit	IM.207.DID.DI	C1									1		1		1	E	2	
	208	Commercial Law	IM.208.DID.DI										3		2		3	E	5	
	209	Management of Practice Enterprise	IM.209.DID.DI	C2									1		2		2	C	3	
	210	Electronics	IEE.210.DID.DI										2		1		2	C	3	
	211	Electrical and Electronic Measurements	IEE.211.DID.DI										3		2	1	3	E	5	
	212	Energy Resources and Policies	IEE.212.DS.DI										3	2			2	E	5	
	213	Marketing	IEE.213.DID.DI										1	1			1	C	2	
	214	Physical Training	IEE.214.DC.DI				1								1			A/R	1	
	215	Practice, 3 weeks. x 40 h/week=120 h	IEE.215.DID.DI															C	4	
DO	216	Electrical Materials	IM.216.1.DID.DO		2		2		2	E	4									
		Materials Study	IM.216.2.DID.DO																	
DL	217	Modern Languages	EL.217.DC.DL			1				C	1		1				C	1		
	218	Conflict Management	IM.218.DID.DL		2		1			C	3									
	219	Microeconomics	IM.219.DID.DL									2		2			C	3		
	220	European Institutions and Civilization	EN.220.DC.DL		1					C	1									
	221	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					16	1	11	0	14	4E 3 C	30		15	3	8	1	14	4E 4 C	30	

Conditionings	Previous compulsory discipline	
	Title	Code
C1	Accounting	IM.203.DID.DI
C2	General Management	IM.202.DID.DI

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3rd 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	301	Quality Management	IM.301.DID.DI		2			1	2	E	4								
	302	Marketing Management	IM.302.DID.DI		2			1	2	E	4								
	303	Management Information Systems	IM.303.DS.DI		2			1	2	C	4								
	304	Electrical Equipment	IEE.304.DID.DI		3		1		2	E	5								
	305	Electrical Machines	IEE.305.DID.DI	C ₁	3		2		3	E	5								
	306	Finance Management	IM.306.DID.DI										2	1			1	E	3
	307	Organisational behaviour	IM.307.DID.DI										2			1	1	C	3
	308	Electromagnetic Compatibility	EL.308.DS.DI										2	1			1	C	3
	309	Low Voltage Electrical Installations	IEE.309.DID.DI										2	1	1		2	E	4
	310	Electrical Drive Systems	IEE.310.DID.DI	C ₂									2	2			2	C	4
	311	Automatic Control and Automation Equipment	IEE.311.DS.DI	C ₃									2	1			2	E	3
	312	Electrical and Thermal Energy Production	IEE.312.DID.DI										2	2			2	E	4
	313	Practical Training, 3 weeks. x 40 h/week=120 h	IEE.313.DS.DI															C	3
DO	314	Metrology and Certification	IM.314.1.DID.DO		2		2		2	C	4								
		Technological Methods and Procedures	IM.314.2.DID.DO		2		2		2	C	4								
	315	Management of Electrical Energy Production	IM.315.1.DS.DO		2		1		2	C	4								
		Manufacturing Management	IM.315.2.DS.DO																
	316	Small and Medium Business Management	IM.316.1.DS.DO										2			1	2	C	3
		Consumer Behaviour	IM.316.2.DS.DO																
316	Marketing Researches	IM.316.3.DS.DO																	
DL	317	Organizational Culture. Ethics in Business	IM.317.DID.DL		2		1			C	3								
	318	Research Methodology in Management	IM.318.DID.DL									2	1				C	3	
Total hours per week, total tests number per semester and total credits per semester, for DI and DO					16	0	6	3	15	4E 3 C	30	16	1	7	3	13	4E 5 C	30	
					25			15	C	27			13	C					

Conditionnings	Previous compulsory discipline	
	Title	Code
C1	Fundamentals of Electrical Engineering	UTI.EH.IEE.208.DID.DI
C2	Electrical Machines	UTI.EH.IEE.305.DID.DI
C3	Special Mathematics – Systems Theory	UTI.EH.IEE.209.DF.DI

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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	Human Resources Management	IM.401.DID.DI									2	1	1	E	3			
	402	Modelling and Simulation of Production Systems	IM.402.DID.DI									2	1	1	C	3			
	403	Environment Management and Engineering	IM.403.DID.DI		2	2		3	E	5									
	404	Maintenance Management	IM.404.DID.DI		2	1		1	C	4									
	405	Project Management	IM.405.DID.DI		2			1	2	E	4								
	406	Networks and Equipment for Power Systems Control	IEE.406.DS.DI		2	2		2	C	4									
	407	Information Systems for Electrical Energy Consumption Monitoring	IEE.407.DS.DI									2		1	2	E	3		
	408	Optimal Use of Electrical Energy	IEE.408.DS.DI								3	1		1	E	4			
	409	Reliability and Maintenance Strategies	IEE.409.DS.DI		2	2		2	E	5									
	410	Electroecology	IEE.410.DS.DI	C1							2	1	1		2	E	4		
	411	Diploma Project Preparation	IEE.411.DS.DI											6	6	C	6		
	412	Practice for Diploma Project Drafting, 3 weeks x 40 h/week = 120 h*	IEE.412.DS.DI													C	4		
418	Diploma project defend**	IEE.418.DS.DI													E	10			
DO	413	International Management	IM.413.1.DS.DO									2	1	1	C	3			
		Performance Management	IM.413.2.DS.DO																
		Strategic Management	IM.413.3.DS.DO																
	414	Innovation	IM.414.1.DS.DO		2	1		1	C	3									
		Logistics	IM.414.2.DS.DO																
415	Electrical Energy Transport and Distribution	IEE.415.1.DS.DO		3	1	1	3	E	5										
	Electric Networks	IEE.415.2.DS.DO																	
DL	416	Global Technologies Management	IM.416.DID.DL		2	1			C	3									
	417	Risks and Investment Management	IM.417.DID.DL								2	1			C	3			
Total hours per week, total tests number per semester and total credits per semester, for DI and DO				15	0	9	2	14	4E 3 C	30	13	1	5	7	14	4E 4C	30		

*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
C1	Electrical and Thermal Energy Production	IEE.311.DID.DI

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