

CURRICULUM

Title awarded: Engineer
Duration of study: 4 years
Mode of study: Full - time

First year

No.	Course	Course code	Pre-requisites	1 st Semester						2 nd Semester						SI	
				Hours/week/ course				Final eval	K	Hours/week/ course				Final eval	K		
				C	S	L	P			C	S	L	P				
CC	101	Mathematics (Analysis, Linear Algebra, Analytical and Differential Geometry)	IM.101.DF.DI		4	3	-	-	E	7							70
	102	Mechanics and Material Strength	IM.102.DID.DI.		3	-	1	-	E	5							70
	103	Physics	IM.103.DF.DI.		2	-	2	-	E	5							56
	104	Chemistry	IM.104.DF.DI.		2	-	2	-	C	5							56
	105	Communication	IM.105.DID.DI.								2	1	-	-	C	4	56
	106	Data bases	IM.106.DIS.DI.								1	-	2	-	C	4	56
	107	Fundamentals of economics	IM.107. DF.DI								2	1		-	E	4	56
	108	Computers Programming and Programming Languages	IM.108.DF.DI.								4	-	4	-	E	7	70
	109	Fundamentals of electrical Engineering	IM.109.DID.DI.								2	-	1	-	E	3	28
	110	Sports	IM.110.DC.DI.		-	-	1	-	-	-	-	-	1	-	A/R	2	14
EC	Optional I		DIS DO		1	-	1	-	C	3							42
	111	European social legislation	IM.111.DIS.DO														0
	112	Fundamentals of law	IM.112.DIS.DO														0
	Optional II				2	-	2	-	C	5							70
	113	Raw materials for textiles and leather (TX)	IM.113.DID.D O.														
	114	Electrotechnical materials (ETH)	IM.114.DID.D O.														
	115	Materials study (CM)	IM.115.DID.D O.														
	116	Analytical Control of Quality products	IM.116.DID.D O.														
	Optional III										2	-	3	-	C	6	70
117	Technical Design and Infographics	IM.117.DF.DO.															
118	Computer aided graphics	IM.118.DF.DO.															
OC	119	Technology history	IM.119.DC.DF		2	-	1	-	VP	3							14
	120	Office software	IM.120.DIS.DF								2	-	1	-	VP	3	14
Totals: hours/week, per semester, evaluations, ECTS / semester for Courses: Compulsory (CC), Elective (EC) and Optional (OC)					14	3	9	-	3E 3C	30	13	2	11	-	3E 3C	30	714
					26						26						

RECTOR,
Professor Dan CAȘCAVAL, Ph.D. Eng.

DEAN,
Professor Nicolae Hurduc, Ph.D.Eng.

CURRICULUM

Title awarded: Engineer
Duration of study: 4 years
Mode of study: Full - time

Second year

No.	Course	Course code	Pre-requisites	3 rd Semester						4 th Semester						SI	
				Hours/week/ course				Final eval	K	Hours/week/ course				Final eval	K		
				C	S	L	P			C	C	S	L				
CC	201	Probability theory and statistics	IM.201.DF.DI.		2	-	2	-	E	5							70
	202	Fundamentals of management	IM.202.DID.DI.	C1	2	1	-	-	E	5							84
	203	Accounting	IM.203. DID.DI.		2	-	1	-	E	4							56
	204	Operational research	IM.204.DID.DI.		2	-	1	-	C	4							56
	205	Inorganic Chemistry	IM.205.DF.DI.		2	-	2	-	E	4							42
	206	Physical Chemistry 1: Thermodynamics	IM.206.DIS.DI.		2	-	2	-	C	4							42
	207	Physical Chemistry 2: Kinetics	IM.207.DIS.DI.	C2							2	-	2	-	E	4	42
	208	Commercial law	IM.208.DID.DI.	C4							3	-	2	-	E	4	42
	209	Management of simulated enterprise	IM.209.DIS.DI.								1	-	2	-	C	3	42
	210	Marketing	IM.210.DID.DI.	C1,C3							2	-	-	-	C	2	42
	211	Finance and credit	IM.211.DID.DI.								1	-	1	-	C	2	28
	212	Organic Chemistry	IM.212.DF.DI.								2	-	2	-	E	5	56
	213	Transfer Phenomena and Unit Processes 1	IM.213.DID.DI.	C2,C5							3	-	2	-	E	5	56
	214	Sports	IM.214.DC.DI.		-	-	1	-	-	-	-	-	1	-	A/R	2	14
	215	Practical stage in companies (3 weeks)	IM.215.DID.DI.		90 ore								C	3			
EC	Optional I				2	-	2	-	C	4							42
	216	Science of Materials	IM.216.DID.DO														
	217	Materials technologies (IEDM)	IM.217.DID.DO														
	218	General Engineering in Textiles and Leather (IEI)	IM.218.DID.DO														
	219	Technological processes (IEEE)	IM.219.DID.DO														
OC	220	Creativity	IM.220.DIS.DF								2	-	-	-	VP	2	22
	221	Conflict Management	IM.221.DIS.DF		2	-	1	-	VP	3							42
	222	Microeconomics	IM.222.DIS.DF								2	-	1	-	VP	3	42
Totals: hours/week, per semester, evaluations, ECTS / semester for Courses: Compulsory (CC), Elective (EC) and Optional (OC)					14	1	11	-	4E	30	14	-	12	-	4E	30	714
					26				3C		26				4C		

RECTOR,
 Professor Dan CAȘCAVAL, Ph.D. Eng.

DEAN,
 Professor Nicolae Hurduc, Ph.D.Eng.

CURRICULUM

Title awarded: Engineer
Duration of study: 4 years
Mode of study: Full - time

Third year

No.	Course	Course code	Pre-requisites	5 th Semester						6 th Semester						SI	
				Hours/week/ course				Final eval	K	Hours/week/ course				Final eval	K		
				C	S	L	P			C	S	L	P				
CC	301	Quality Management	IM.301.DID.DI.	C1	2	-	-	1	E	4							70
	302	Marketing management	IM.302.DIS.DI.	C1,C2	2	-	-	1	E	4							70
	303	Management information systems	IM.303.DID.DI.	C1	2	-	-	1	E	4							70
	304	Transfer Phenomena and Unit Processes 2	IM.304.DID.DI.	C5	2	-	1	-	C	3							42
	305	Chemical and Biological Engineering Processes	IM.305.DID.DI.	C3,C4	3	-	2	-	E	5							56
	306	Analysis and Synthesis of Technological Processes	IM.306.DID.DI.		3	-	1	-	C	4							42
	307	Financial management	IM.307.DID.DI.	C1							2	2	-	-	E	4	42
	308	Organizational behavior	IM.308.DID.DI.	C1							2	-	-	1	C	4	56
	309	Technological Processes Optimization	IM.309.DID.DI.								2	1	-	-	E	4	56
	310	Technological Processes Automation	IM.310.DID.DI.								2	-	2	-	E	4	42
	311	Pollution Prevention and Environmental Protection	IM.311.DID.DI.								2	-	2	-	E	3	28
	312	Electrochemistry and Corrosion	IM.312.DID.DI.								2	-	1	-	C	3	28
	313	Practical stage in simulated company (3 weeks)	IM.313.DIS.DI.		90ore										C	3	
EC		Optional I Foreign language	IM.410.DC.DI		-	-	2	-	VP	2	-	-	2	-	VP	2	28
	314	English															
	315	French															
	316	German															
		Optional II															56
	317	Production management for electronics industry	IM.315.DIS.DO														
	318	Production management for textiles	IM.316.DIS.DO														
	319	Production management for chemical industry	IM.317.DIS.DO	C1	2	-	-	1	C	4							
	320	Production industry for mechanical industry	IM.318.DIS.DO														
		Optional III									2	-	-	1	VP	3	28
321	Small business management	IM.319.DIS.DO	C1,C2														
322	Consumer behavior	IM.320.DIS.DO															
323	Marketing research	IM.321.DIS.DO															
OC	324	Organizational culture. Business ethics	IM.322.DIS.DF		2	-	1	-	VP	3							28
	325	Ergonomics	IM.323.DIS.DF		2	-	1	-	VP	3							28
	326	Research methods in management	IM.324.DIS.DF								2	-	1	-	VP	3	28
Totals: hours/week, per semester, evaluations, ECTS / semester for Courses: Compulsory (CC), Elective (EC) and Optional (OC)					16	-	6	4	4E 3C 1VP	30	14	3	7	2	4E 3C 2VP	30	714
					26						26						

RECTOR,
Professor Dan CAȘCAVAL, Ph.D. Eng.

DEAN,
Professor Nicolae Hurduc, Ph.D.Eng.

CURRICULUM

Title awarded: Engineer

Duration of study: 4 years

Mode of study: Full - time

Fourth year

No.	Course	Course code	Pre-requisites	7 th Semester						8 th Semester						SI	
				Hours/week/course				Final eval	K	Hours/week/course				Final eval	K		
				C	S	L	P			C	C	S	L				
CC	401	Environmental engineering and management	IM.401.DID.DI	C1,C2	2	-	-	2	C	5							56
	402	Maintenance management	IM.402.DID.DI	C1,C2	2	-	1	-	E	4							56
	403	Project management	IM.403.DID.DI	C1,C3	2	-	-	1	E	5							70
	404	Organic Synthesis Technology	IM.404.DIS.DI	C4, C5, C6,C7	3	-	2	1	E	6							56
	405	Inorganic Chemical Technology	IM.405.DIS.DI	C4, C5, C6,C7	2	-	2	1	E	5							42
	406	Human resources management	IM.406.DID.DI	C1,C3							2	-	-	1	E	3	56
	407	Modelling and simulation of production systems	IM.407.DID.DI	C1							2	-	1	-	E	3	56
	408	Polymer Technology	IM.408.DIS.DI	C4, C5, C6,C7							2	-	1	-	E	3	56
	409	Pulp, Paper and Fibers Technology	IM.409.DIS.DI	C4, C5, C6,C7							2	-	1	-	E	3	56
	410	Elaboration of Diploma Project	IM.410.DIS.DI										6		VP	6	70
	411	Research stage for Diploma Project (2 weeks)	IM.411.DIS.DI								60 ore				VP	4	
EC		Optional I Foreign language	IM.410.DC.DI		-	-	2	-	VP	2	-	-	2	-	VP	2	42
	412	English															
	413	French															
	414	German															
		Optional II									2	-	-	1	C	3	42
	415	International management	IM.412.DIS.DO	C1,C3													
	416	Performance management	IM.413.DIS.DO	C1,C3													
	417	Strategic management	IM.414.DIS.DO	C1,C3													
		Optional III									2	-	1	-	C	3	28
	418	Innovation (VAE)	IM.415.DIS.DO	C1,C2													
	419	Logistics	IM.416.DIS.DO	C1,C2													
	Optional IV									2	-	1	-	C	3	28	
420	Industrial Catalysis and Catalysts	IM.417.DIS.DO	C4, C5, C6,C7														
421	Industrial Biotechnologies	IM.418.DIS.DO	C4, C5, C6,C7														
422	Nonconventional Energy Sources	IM.419.DIS.DO															
OC	423	Management of global technologies	IM.420.DIS.DF		2	-	1	-	VP	3							28
	424	Risk and Investment Management	IM.421.DIS.DF								2	-	1	-	VP	3	28
	425	Graduation Exam												E	10		
Totals: hours/week, per semester, evaluations, ECTS / semester for Courses: Compulsory (CC), Elective (EC) and Optional (OC)					13	-	8	5	4E 2C 1V P	30	12	-	12	2	4E 2C 2VP PL	30	714
					26							26					

RECTOR,
Professor Dan CAȘCAVAL, Ph.D. Eng.

DEAN,
Professor Nicolae Hurduc, Ph.D.Eng.