

„GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAȘI
 FACULTY OF CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION
 Domain: **Environmental Engineering**
 Specialization: **Environmental Engineering and Protection in Industry**
 Title of the graduated: *Engineer*
 Period of studies: **4 years**
 Learning program: **daily**

CURRICULA

Ist YEAR

2016/2017

No.	Discipline	Code	Prerequisites	1 st Semester						2 nd Semester							
				No.h/week/ discipline					Final evaluation	K	No.h/week/ discipline					Final evaluation	K
				C	S	L	P				C	S	L	P			
ID	101	Mathematics 1 (Differential and Integral Calculus)	DF DI		2	2	-	-	E	5							
	102	Physics	DF DI		3	-	2	-	E	5							
	103	Inorganic Chemistry	DF DI		2	-	2	-	E	5							
	104	Ecology	DF DI		2	-	-	-	C	4							
	105	Applied Informatics 1	DF DI		2	-	2	-	E	5							
	106	Climatology	DID DI								2	-	1	-	C	3	
	107	Mathematics 2 (Numerical Methods and Statistics)	DF DI								2	2	-	-	E	4	
	108	Soil sciences	DID DI								2	-	2	-	E	4	
	109	Organic chemistry	DF DI								2	-	2	-	E	5	
	110	Applied Informatics 2	DF DI								2	-	2	-	E	5	
	111	Computer Assisted Graphics	DF DI								1	-	2	-	C	3	
	112	Physical Training	DC DI		-	-	1	-	-	-	-	-	1	-	A/R	2	
OD	113	The English/French/German/Russian Language	DC DO		-	2	-	-	VP	2	-	2	-	-	VP	2	
	114	Culture, Civilization and European Institutions	DC DO		2	1	-	-	C	4							
		Psychology and Social Inquiry Techniques															
	115	Inter-human Communication	DC DO								1	1	-	-	C	2	
Environment and sustainable development																	
FCD	116	Fundamental Concepts in Chemistry	DF DL		2				VP	2							
	117	Fundamental Concepts in Mathematics	DF DL		2				VP	2							
	118	Elaboration techniques of scientific reports and presentations	DID DL								1		1		VP	2	
Total hours on week, total tests and credits on semester, at ID (imposed disciplines) and OD (optional disciplines)					13	5	7		4E 2C 1VP	30	12	5	10		4E 3C 1VP	30	
					25						27						

RECTOR,

DEAN,

Prof.dr.eng.Dan Cașcaval

Prof.dr.eng. Nicolae Hurduc

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2017/2018

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				No.h/week/ discipline				Final evaluation	K	No.h/week/ discipline				Final evaluation	K
				C	S	L	P			C	S	L	P		
ID	201 Analytical Chemistry and Instrumental Analysis	DID DI		2	-	3	-	C	6						
	202 Materials Science	DID DI		2	-	2	-	E	5						
	203 Hydraulics	DID DI		2	-	1	-	E	4						
	204 Environmental Chemistry	DF DI		2	-	1	-	E	4						
	205 Biology and Microbiology	DF DI		2	-	2	-	C	4						
	206 Eco-Toxicology	DID DI								2	-	2	-	E	4
	207 Topography	DID DI								1	-	1	-	C	2
	208 Mechanical and Electrotechnical Engineering Elements	DID DI								2	-	2	-	E	4
	209 Hydrology and Hydrogeology	DID DI								2	-	2	-	E	4
	210 Physical Training	DC DI		-	-	1	-	-	-	-	-	1	-	A/R	2
	211 Practical training (for domain)– 3 weeks	DID DI								3x30			C	3	
OD	212 The English/French/German/Russian Language	DC DO		-	2	-	-	VP	2	-	2	-	-	VP	2
	213 Transfer Phenomena, Unit Operation and Equipments 1 Hydraulics 2	DID DO								3	-	2	-	E	5
	214 Biochemistry Geo-techniques	DF DO		2	-	2	-	E	5						
	215 Radiation Sources and Protection Technologies Natural and technological disasters	DID DO								2	-	2	-	C	4
	216 Radio-chemistry	DIS DL		2				VP	2						
FCD	217 Polymers for environment	DIS DL		1		1		VP	2						
	218 Marketing of eco-products	DIS DL								2				VP	2
	219 Unconventional sources of energy	DIS DL								2				VP	2
	220 Creativity stimulation	DC DL								2				VP	2
	Total hours on week, total tests and credits on semester, at ID (imposed disciplines) and OD (optional disciplines)				12	2	12	-	4E 2C 1VP	30	12	2	12	-	4E 3C 1VP

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CURRICULA

ANUL III

2018/2019

No.	Discipline	Code	Prerequisites	1 st Semester						2 nd Semester						
				No.h/week/ discipline				Final evaluation	K	No.h/week/ discipline				Final evaluation	K	
				C	S	L	P			C	S	L	P			
ID	301	Transfer Phenomena, Unit Operation and Equipments 2	DID DI	2	-	1	-	E	4							
	302	Transfer Phenomena, Unit Operation and Equipments, project design	DID DI	-	-	-	2	VP	3							
	303	Physical Chemistry 1: Thermodynamics	DIS DI	2	-	2	-	E	5							
	304	Analysis and Synthesis of Technological Processes	DID DI	3	-	2	-	E	6							
	305	Technologies for Acquisition, Monitoring and Diagnosis of Environmental Protection Quality	DID DI	2	-	2	-	C	4							
	306	Engineering of Chemical and Biological Processes	DIS DI	3	-	3	-	E	6							
	307	Environmental Legislation	DID DI	2	-	-	-	C	2							
	308	Automatization of Technological Processes	DID DI								2	-	2	-	E	4
	309	Technologies for Atmosphere Protection	DID DI								2	-	2	-	E	4
	310	Technologies for Atmosphere Protection, project design	DID DI								-	-	-	2	VP	3
	311	Optimization of Technological Processes	DID DI								2	1	-	-	C	3
	312	Physical Chemistry 2: Kinetics	DID DI								2	-	2	-	E	4
	313	Technologies for drinking and industrial water	DIS DI								2	-	2	-	E	4
	314	Practical training (for domain)– 3 weeks	DIS DI								3x30			C	3	
OD	315	Marketing Industrial economy	DID DO								2	-	-	-	VP	2
	316	Electrochemistry and Corrosion GIS (Geographical Information Systems)	DID DO								2	-	1	-	C	3
LD	317	Chemical and bio-chemical sensors	DIS DL	1		1		VP	2							
	318	Viability of industrial systems	DID DL	2				VP	2							
	319	Bio-mass valorization for energy	DID DL								2				VP	2
	320	Eco-design	DIS DL								2				VP	2
Total hours on week, total tests and credits on semester, at ID (imposed disciplines) and OD (optional disciplines)				14	-	10	2	4E 2C 1VP	30	14	1	9	2	4E 3C 2VP	30	

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CURRICULA

IVth YEAR

2019/2020

No.	Discipline	Code	Prerequisites	1 st Semester						2 nd Semester						
				No.h/week/ discipline				Final evaluation	K	No.h/week/ discipline				Final evaluation	K	
				C	S	L	P			C	S	L	P			
ID	401	Technologies and Biotechnologies for Waste Waters Treatment	DIS DI	3	-	3	-	E	6							
	402	Technologies and Biotechnologies for Waste Waters Treatment, project design	DIS DI	-	-	-	2	VP	3							
	403	Biotechnologies and Bioremediation	DIS DI	3	-	3	-	E	6							
	404	Environmental Impact Assessment	DID DI	2	3	-	-	C	6							
	405	Wastes Treatment Technologies and Valorization	DIS DI	3	-	2	-	E	6							
	406	Wastes Treatment Technologies and Valorization, project design	DIS DI	-	-	-	2	VP	3							
	407	Ecological Management	DID DI								2	1	-	-	E	4
	408	Catalysis in Environmental Protection	DIS DI								2	-	2	-	E	4
	409	Elaboration and Management of Environmental Projects	DIS DI								1	-	-	1	VP	3
	410	Technologies for Soil Decontamination	DIS DI								2	-	-	2	E	5
	411	Integrated Pollution Prevention and Control	DID DI								2	-	-	2	E	5
	412	Research for Environmental engineering and protection project	DIS DI								-	-	6	-	VP	4
	413	Practical training for elaboration of diploma project	DIS DI								2 * 30			C	2	
OD	414	Energy and environment	DIS DO													
		Quality monitoring of environmental components									2	-	1	-	C	3
LD	415	Advanced numerical computed applications for environmental protection	DID DL	1		1		VP	2							
	416	Protection techniques for patrimony	DID DL	2				VP	2							
	417	Innovation elements	DID DL							2	-	-	-	VP	2	
DP	418	Graduation Project exam and defend (DP)													10	
Total hours on week, total tests and credits on semester, at ID (imposed disciplines) and OD (optional disciplines)				11	3	8	4	3E 1C 2VP	30	11	1	9	5	4E 1C 2VP PL	10	

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