“GHEORGHE ASACHI” TECHNICAL UNIVERSITY OF IAŞI

”CRISTOFOR SIMIONESCU” FACULTY OF CHEMICAL ENGINEERING AND ENVIRONMENTAL PROTECTION

Field of study: **Chemical Engineering**
Programme of study: ***Clean Processes Engineering***

Title of the graduated: **Master Degree**
Period of studies: **2 years**
Learning program: **full-time**

CURRICULUM

1st year of study

	No	Discipline Name	Discipline Code	No. hours for individual study	1st Semester						2nd Semester					
					No.hours/ week/ discipline				Exam	ECTS	No.hours/ week/ discipline				Exam	ECTS
					C	S	L	P			C	S	L	P		
ID	501	Physical Chemistry of Homogenous and Dispersed Systems	IPN 501-SD ID	58	2	-	1	-	**E**	**4**						
	502	Intensification of Transfer Phenomena	IPN 502-TD ID	58	2	-	1	-	**E**	**4**						
	503	Correlation Methods and Data Bases	IPN 503-SD ID	33	1	-	2	-	**C**	**3**						
	504	Gas-Liquid Non-Catalytic Processes	IPN 504-TD ID	58	2	-	1	-	**E**	**4**						
	505	Solid-Fluid Non-Catalytic Processes	IPN 505-TD ID	80							3	-	2	-	**E**	**6**
	506	Heterogeneous Catalytic Processes	IPN 506-TD ID	94	3	-	1	-	**E**	**6**						
	507	Industrial Heterogeneous Catalysts	IPN 507-SD ID	58							2	-	1	-	**E**	**4**
	508	Integrated Management of the Environment*)	IPN 509-SD ID	69							2	-	-	2	**E**	**5**
	509	Scientific Research	IPN 510-SD ID	82	-	-	7	-	**PE**	**5**	-	-	5	-	**PE**	**5**
OD	510	1. Scientific research strategy	IPN 510.1-SD OD	58+58	2	-	1	-	**C**	**4**	2	-	1	-	**E**	**4**
		2. Anticorrosion Protection in Specific Environment	IPN 510.2-SD OD													
		3. Electrochemical Methods of Anticorrosion Protection	IPN 510.3-SD OO													
	511	1. Sustainable Industrial Production*)	IPN 511.1-SD OD	33							2	-	-	1	**C**	**3**
		2. Integrated pollution prevention and control	IPN 511.2-SD OD													
	512	1. Products and energy from biomass*)	IPN 512.1-SD OD	33							2	-	1	-	**C**	**3**
		2. Quality Indicators for the Evaluation of the Pollution	IPN 512.2-SD OD													
		Total hours on week, total tests and credits on semester, at **ID** (imposed disciplines) and **OD** (optional disciplines)			12	-	14	-	**4E 2C 1PE**	**30**	13	-	10	3	**4E 2C 1PE**	**30**
					26						**26**					

*) Common courses with Environmental Management programme of study.

Legende: ID – imposed discipline; OD – optional discipline; TD – thoroughly discipline; SD – synthesis discipline; C – course; S – seminar; L – laboratory; P – project; RD – Scientific research of dissertation thesis; E – exam; C – colloquium; PE – periodical evaluation.

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

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

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CURRICULUM

2nd year of study

	No	Discipline Name	Discipline Code	No. hours for individual study	3nd Semester						4nd Semester						
					No.hours/ week/ discipline				Exam	ECTS	No.hours/ week/ discipline					Exam	ECTS
					C	S	L	P			C	S	L	P	RD		
ID	601	Electrochemical Processes	IPN 601-TD ID	83	2	-	1	-	**E**	**5**							
	602	Advanced Separation Processes	IPN 602-TD ID	83	2	-	1	-	**E**	**5**							
	603	Production Processes of Advanced Inorganic Materials	IPN 603-TD ID	66	4	-	2	-	**E**	**6**							
	604	Advanced Characterization of Micro and Nanomaterials	IPN 604-SD ID	58	2	-	1	-	**C**	**4**							
	605	Scientific Research	IPN 605-SD ID	27	-	-	7	-	**PE**	**5**							
	606	Scientific Research Report 1	IPN 606-SD ID	35							-	-	-	-	10	**PE**	**7**
	607	Scientific Research Report 2	IPN 607-SD ID	60							-	-	-	-	10	**PE**	**8**
	608	Development of MSc. Thesis	IPN 608-SD ID	291							-	-	-	-	6	**C**	**15**
OD	609	1. Advanced oxidation processes in wastewater treatments	IPN 609.1-TD OD	69	3	-	1	-	**E**	**5**							
		2. Alternative Energy Sources	IPN 609.2-TD OD														
		M.Sc. Exam															
		Total hours on week, total tests and credits on semester, at **ID** (imposed disciplines) and **OD** (optional disciplines)			13	-	13	-	**4E 1C 1PE**	**30**	-	-	-	-	26	**2PE 1C**	**30**
					26						26						

*) Common courses with Environmental Management programme of study.

Legende: ID – imposed discipline; OD – optional discipline; TD – thoroughly discipline; SD – synthesis discipline; C – course; S – seminar; L – laboratory; P – project; RD – Scientific research of dissertation thesis; E – exam; C – colloquium; PE – periodical evaluation.

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