

Faculty **INDUSTRIAL CHEMISTRY AND ENVIRONMENTAL ENGINEERING**

Bachelor studies program:

Master studies program:

**ENGINEERING OF INORGANIC COMPOUNDS AND ENVIRONMENTAL PROTECTION**

Status form of study: full time

Length of studies: **2 years**

Fundamental field hierarchy (DFI):

Branch of science (RSI):

Field Hierarchy (DII):

Educational master programmes (DSU\_M):

MATHEMATICS AND NATURAL SCIENCES  
CHEMISTRY AND CHEMICAL ENGINEERING  
CHEMICAL ENGINEERING  
CHEMICAL ENGINEERING

DFI Code.RSI Code. DII Code. DSU\_M Code.

10.30.20.20

cicl ul	c1c 2c3	a1a 2
M	085	17

**EDUCATION PLAN  
2017 - 2018 Academic year  
1st YEAR**

	1st SEMESTER										2nd SEMESTER									
1	Ecological Technologies in Inorganic Chemical Industry										Algorithms and Software for Process Simulation									
	M085.17.0R.A1	8	D	28	0	28	0	DA	156	M085.17.0R.A1	8	E	28	0	21	0	DA	156		
2	Physical Chemistry of Interfaces										Advanced Technologies in Water and Wastewater Treatment									
	M085.17.0R.A2	8	E	28	0	21	0	DA	156	M085.17.0R.A2	8	E	28	0	28	0	DA	156		
3	Modern Methods for Synthesis of Inorganic Materials										Optional Course II									
	M085.17.0R.A3	6	D	28	0	14	0	DA	120	M085.17.0R.A3-ij	8	D	28	0	21	0	DCA	120		
4	Optional Course I										Optional Course III									
	M085.17.0R.A4-ij	8	E	28	0	21	0	DA	120	M085.17.0R.A4-ij	6	D	28	0	14	0	DCA	120		
5																				
total / semester	hours:	196		VPI:		552		hours:	196		VPI:		552							
	credits:	30		evaluations:		2E+2D		credits:	30		evaluations:		2E+2D							
total / week	hours:	14.00						hours:	14.00											
	of which:			8		0		6		0		(c, s, l, p)								

**2nd YEAR**

	3rd SEMESTER										4th SEMESTER									
1	Industrial Pollutants Control										Research stage									
	M085.17.0R.A1	8	D	28	0	28	0	DA	156	M085.17.0R.S1	10	C	0	0	0	98	DS	276		
2	Computer Assisted Design										Elaboration and dissertation defence									
	M085.17.0R.A2	8	E	28	0	0	21	DCA	120	M085.17.0R.S2	15	D	0	0	0	98	DS	276		
3	Synthesis of Inorganic Products with Customized Properties										Dissertation exam									
	M085.17.0R.A3	8	E	28	0	21	0	DCA	156		10	E				DS				
4	Optional Course IV																			
	M085.17.0R.S4-ij	6	D	28	0	0	14	DS	120											
5																				
total / semester	hours:	196		VPI:		552		hours:	196		VPI:		552							
	credits:	30		evaluations:		2E+2D		credits:	35		evaluations:		1C+1E+1D							
total / week	hours:	14.00						hours:	14.00											
	of which:			8		0		4		3		(c, s, l, p)								
	of which:			0		0		0		14		(c, s, l, p)								

**OPTIONAL COURSES  
1st YEAR**

		1st SEMESTER										2nd SEMESTER									
01	Optional Course I Engineering of Chemical reactions and Specific Machines										Optional Course II Spectroscopic Analysis Methods										
	M085.17.0R.A4-01	8	E	28	0	21	0	DA	120	M085.17.0R.A3-01	8	D	28	0	21	0	DCA	120			
02	Optional Course Quality I -Design of Industrial Processes										Optional Course II Modern Methods for Analysis of Inorganic Compounds										
	M085.17.0R.A4-02	8	E	28	0	21	0	DA	120	M085.17.0R.A3-02	8	D	28	0	21	0	DCA	120			
03											Optional Course III Advanced Electrochemical Technologies										
										M085.17.0R.A4-03	6	D	28	0	14	0	DCA	120			
04											Optional Course III Advanced Technologies for Galvanic Coatings										
										M085.17.0R.A4-04	6	D	28	0	14	0	DCA	120			

**OPTIONAL DISCIPLINES  
2nd YEAR**

		3rd SEMESTER										4th SEMESTER									
01	Optional Cours IV Environmental Analysis of Industrial Processes																				
	M085.17.0R.A4-01	6	D	28	0	0	14	DCA	120												
02	Optional Cours IV Integrated Waste Management																				
	M085.17.0R.A4-02	6	D	28	0	0	14	DCA	120												

**Legend**

Discipline Name									
Code	nc	FE	c	s	l	p	CF	VPI	

**Code** = discipline code  
**nc** = transferable credits no  
**FE** = evaluation form  
**FE** ∈ {E, D, C, P-E, P-D}  
**E**=exam  
**D**=distributed evaluation  
**c**=course/semester hours no  
**s**= seminar hours no

**l**=laboratory hours no  
**p**=project hours no  
**CF**=formative category of discipline  
**CF** ∈ {DA, DCA, DS}  
**DA** - deepening discipline  
**DCA** - advanced knowledge discipline  
**DS**- synthesis discipline  
**VPI** = volume of hours for individual preparation in one semester of 14 wk. plus 4 wk. examination

**Example**

Internet Technologies									
Code	8	E	28	0	0		DS		70

(\*) - activ optional disciplines in the current academic year

**RECTOR,**  
Prof.univ.dr.eng.Viorel-Aurel ȘERBAN

**DEAN,**  
Prof.univ.dr.eng. Nicolae VASZILCSIN