University Politehnica Timişoara

Faculty of Industrial Chemistry and Environmental Engineering
Bachelor domain**:**
MASTER Specialization: **FINE ORGANIC SYNTHESIS, SEMISYNTHESIS and NATURAL PRODUCTS**

Type of education: **full time**

Length of study: **2 years**

Fundamental domain-based ranking: **(DFI):**	Mathematics and Natural Science
Branch of science **(RSI):**	Chemistry and Chemical Engineering
Domain-based ranking **(DII)**:	Chemical Engineering
Domain of master studies:**(DSU_M)**:	Chemical Engineering

Cod DFI.Cod RSI.Cod DII.Cod DSU_M
10.30.20.20

ciclul	c1c2c3	a1a2
M	084	17

EDUCATIONAL PLAN
University year 2017 - 2018
YEAR I

	1st SEMESTER									2nd SEMESTER									
1	Chromatography and thermal analysis									Fine organic synthesis									
	M084.17.0R.A1	8	E	28	0	28	0	DA	156	M084.17.0R.A1	8	E	28	0	28	0	DA	156
2	Industrial Process Design									Spectroscopic methods of analysis									
	M084.17.0R.A2	8	E	28	0	21	0	DA	156	M084.17.0R.A2	8	E	28	0	21	0	DA	156
3	Advanced biochemistry									Flavor and Odorant Compounds									
	M084.17.0R.A3	8	E	28	0	21	0	DA	120	M084.17.0R.A3	8	E	28	0	21	0	DCA	120
4	Optional I									Optional II									
	M084.17.0R.A4-ij	6	D	28	0	14	0	DA	120	M084.17.0R.A4-ij	6	D	28	0	14	0	DCA	120
5																			
total / semester	hours:	**196**		**VPI:**				**552**		hours:	**196**		**VPI:**				**552**		
	credits:	**30**		evaluations:				4E		credits:	**30**		evaluations:				3E+1D		
total / week	hours:	**14.00**								hours:	**14.00**								
	of which:			8	0	6	0	(c, s, l, p)		of which:			8	0	6	0	(c, s, l, p)		

YEAR II

	3rd SEMESTER									4th SEMESTER									
1	Enzymatic biotransformations									Research stage									
	M084.17.0R.A1	8	E	28	0	28	0	DA	156	M084.17.0R.S1	15	D	0	0	98	0	DS	276
2	Legislation and toxicology									Elaboration and support dissertation*									
	M084.17.0R.A2	8	E	28	14	7	0	DCA	120	M084.17.0R.S2	15	E	0	0	0	98	DS	276
3	Sensibility analysis of chemical processes																		
	M084.17.0R.S3	8	E	28	0	21	0	DS	156										
4	Optional III																		
	M084.17.0R.A4-ij	6	D	28	0	14	0	DCA	120										
05																			
total / semester	hours:	**196**		**VPI:**				**552**		hours:	**196**		**VPI:**				**552**		
	credits:	**30**		evaluations:				3E+1D		credits:	**30**		evaluations:				1E+1D		
total / week	hours:	**14.00**								hours:	**14.00**								
	of which:			8	1	5	0	(c, s, l, p)		of which:			0	0	7	7	(c, s, l, p)		

* Credits granted only after disertation exam pass

OPTIONAL DISCIPLINES
YEAR I

	1st SEMESTER									2nd SEMESTER								
01	Optional I Food Additives									Opțional II Polymeric packaging materials								
	M084.17.0R.A4-01	6	D	28	0	14	0	DA	120	M084.17.0R.A4-01	6	D	28	0	14	0	DCA	120
02	Optional I Bioactives Products									Opțional II Advanced fermentative Processes								
	M084.17.0R.A4-02	6	D	28	0	14	0	DA	120	M084.17.0R.A4-02	6	D	28	0	14	0	DCA	120

OPTIONAL DISCIPLINES
YEAR II

	3rd SEMESTER									4th SEMESTER								
01	Optional III Enzymes in food chemistry																	
	M084.17.0R.A4-01	6	D	28	0	14	0	DCA	120									
02	Optional III Chemical reactivity and biological activity																	
	M084.17.0R.A4-02	6	D	28	0	14	0	DCA	120									

Legend

Name of the Discipline								
Code	nc	FE	c	s	l	p	CF	VPI

Code = discipline code
nc = number of trasferable credits
FE =evaluation form
FE ∈ {E, D, C, P-E, P-D}
E=exam
D=distributed evaluation
c=no.hours course/semester
s=no hours seminar
l=no. laboratory hours
p=no. project hours
CF=formative category to which the discipline belongs
CF∈{DA, DCA, DS}
DA - basic discipline
DCA - advanced knowledge discipline
DS- synthesis discipline
VPI = volume of hours nedeed for individual preparation for a

Example

Internet Technologies								
Cod	8	E	28	0	0		DS	70

(*) - optional disciplines activated in the current university year

RECTOR,
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DEAN,
Prof.dr.ing. Nicolae VASZILCSIN