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Program code

Chemistry/Master Programme "Polymers"

academic year beginning from 2015/2016

№	Course code	Course title	Type - C, E, O	Term	ECTS credits	Total number of classes				Classes weekly	Type of grading* - e, ca, m, a
						Total	Lectures	Seminars	Practical classes/practice		
1	2	3	4	5	6	7	8	9	10	11	12

Core courses

1	C	0	1	5	Macromolecular engineering	C	1	5	150	30	0	30	4	e
2	C	0	2	5	Polymer blends, composites and nanocomposites	C	1	5	150	30	0	30	4	e
3	C	0	3	6	Physical methods for characterization of polymers and polymer materials	C	1	6	180	45	0	30	5	e
4	C	0	4	5	Phase and relaxation transitions in polymers	C	2	5	150	30	0	30	4	e
5	C	0	5	5	Theory and computer modeling of polymer systems	C	2	5	150	30	0	30	4	e
6	C	0	6	5	Biopolymers	C	2	4	120	30	0	30	4	e
7	C	0	7	6	Polymer fibers, films, membranes and liquid crystals	C	2	5	150	45	0	30	5	e

Elective courses – min 16 ECTS credits

1	E	0	1	4	High modulus and high strength polymers	E	1	4	120	30	0	30	4	e
2	E	0	2	4	Polymer solutions, networks and gels	E	1	4	120	30	0	30	4	e
3	E	0	3	4	Rheology and processing of polymers	E	1	4	120	30	0	30	4	e
4	E	0	4	4	Water-soluble polymers and polyelectrolytes	E	1	4	120	30	0	30	4	e

По решение на ФС извънаудиторната заетост е минимум 50% от общата

форма на оценяване:
и-изпит, то-текуща оценка,
ки-комбинирано изпитване,
прод.- продължава в сл. семестър

5	E	0	5	4	Destruction, stabilization, and recycling of polymers	E	2	4	120	30	0	30	4	e
6	E	0	6	4	Bioactive, biocompatible, and medico pharmaceutical polymers	E	2	4	120	30	0	30	4	e
7	E	0	7	4	Polymers from biorecyclable sources	E	2	4	120	30	0	30	4	e
8	E	0	8	4	Element organic polymers	E	2	4	120	30	0	30	4	e
9	E	0	9	4	Organic and nonorganic hybrid polymers	E	2	4	120	30	0	30	4	e
10	E	1	0	4	Thermal analysis	E	2	4	120	30	0	30	4	e
11	E	1	1	4	Electro- and photoactive polymers	E	2	4	120	30	0	30	4	e

Teaching practice

№	code	Practice title	Type - C, E, O	Semester	ECTS credits	Weeks	Academic hours	Type of course completion
1	P 0 1 5	Laboratory practicum	C	1	5	15	150	ca
2	P 0 2 4	Pre-thesis practicum 1	C	2	4	15	120	ca
3	P 0 3 0	Pre-thesis practicum 2	C	3	15	15	450	ca

Degree completion

Form of degree completion	ECTS - credits	First state exam/thesis defence	Second state exam/thesis defence
Master thesis	15	February-March	June-July

The curriculum has been approved by the Faculty Council, Record of Proceedings № 6 /16.12.2014

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SOFIA UNIVERSITY "ST. KL. OHRIDSKI"

Reference for a master programme

Chemistry/Master Programme "Polymers"

Full-time education, three semesters

Number of in-class teaching load, ECTS-credits and semester grades																																	
Type of activity	I семестър			II			III			IV			V			VI			VII			VIII			IX			X			Total		
	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades	Number of classes	ECTS – credits	Number of grades			
Compulsory courses	195	16	3	255	19	4																								450	35	7	
Min. of elective courses	120	8	2	120	8	2																								240	16	4	
Teaching practices	75	5	1	60	4	1	225	15	1																				360	24	3		
Total:	390	29	6	435	31	7	225	15	1																				1050	75	14		

Form of degree completion	ECTS – credits	Number of preparatory classes	First state exam/thesis defence session	Second state exam/thesis defence session
Master thesis or State-acknowledged Final examination	15		February-March	June-July

Professional Qualification: MASTER IN CHEMISTRY - POLYMERS

Faculty Council, Record of Proceedings № 6/16.12.2014

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