

Master's degree program in Machines and Technologies in Polymer Industry

as of 2020/2021 academic year

CURRICULUM

ECTS subject code **T MTPI SN₂**

- **T** – type of course: **B** for BEng, **M** for MEng;
- **MTPI** -“Machines and Technologies in Polymer Industry” ;
- **SN₂** - for subsequent number of the subject;

Lectures (L), tutorials (Tut), labs (Lab), Self-Study (SS);

Exam (E), continuous assessment (CA), semester project (SP), semester assignment (course work) (SA).

№	Subject	Semester load						Assessment				ECTS code	ECTS credits
		L	Tut	Lab	Aud. Total	SS	Total	E	CA	SP	SA		

SEMESTER I

1	Polymer science	30	0	30	60	90	150	1				MMTPI 01	4
2	Technical mechanics of polymers	30	0	15	45	75	120		1			MMTPI 02	4
3	Machines and processes for the production of plastic products	30	0	30	60	90	150	1				MMTPI 03	5
4	Technological equipment	30	0	30	60	90	150	1		1		MMTPI 04	5
5	Computer aided design of machines, processes and plastic products	30	0	30	60	60	120	1		1		MMTPI 05	4
6	Composite materials, machines and technologies	30	0	15	45	75	120		1		1	MMTPI 06	4
7	Technologies for plastics recycling	30	0	15	45	75	120		1		1	MMTPI 07	4
Total		210	0	165	375	555	930	4	3	2	2		30

SEMESTER II

8	Computer analysis and simulation in polymer technologies	30	0	15	45	45	90	1		1		MMTPI 09	3
9	Polymeric Machine Elements	30	0	15	45	45	90	1		1		MMTPI 10	3
10	Methods for testing and evaluation in polymer engineering	30	0	15	45	45	90		1		1	MMTPI 11	3
11	Optional subject (List - 1)	30	0	15	45	45	90		1		1	MMTPI 12	3
12	Optional subject (List - 2)	30	0	15	45	45	90	1				MMTPI 13	3
13	Diploma project						450	450	Diploma project defense			MMTPI 14	15
Total		150	0	75	225	675	900	3	2	2	2		30

Notes:

The list of optional subjects are annually updated and approved by the Faculty Council of Mechanical Engineering Faculty.

LIST OF OPTIONAL SUBJECTS

List - 1 MMTPI 11 (ECTS Credits - 3)			Code
1	Machines and technologies for production of rubbers and technical rubber products		MMTPI 11.1
2	Adhesives, thin films and coatings		MMTPI 11.2

List - 2 MMTPI 12 (ECTS Credits - 3)			Code
1	Graphic design and technologies for printing on polymer products		MMTPI 12.1
2	Ergonomics and industrial design		MMTPI 12.2

LIST OF FACULTATIVE SUBJECTS

№	Subject	Semester load					Assessment				ECTS code	ECTS credits
		L	Tut	Lab	Aud. Total	SS	Total	E	C A	SP		

SEMESTER I

1	Polymer packaging technologies	30	0	30	60	60	120		1			Fa MMTPI 01	4
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SEMESTER II

2	Polymer additives	30	0	30	60	60	120		1			Fa MMTPI 02	4
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