

Recommended study plan

Faculty:	Faculty of Industrial Technologies and Materials
Study discipline:	37. Mechanical engineering
Study programme:	Materials
Form of study:	full-time
Degree of study:	the 3rd degree of study (PhD. degree)
Method of study:	attendance method

• PP Compulsory course • PVP Compulsory elective course • PrP Profile course • PSS Course of the state exam	• P Lecture • C Seminar • L Laboratory tutorial
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1. Academic Year – Winter Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-1	PP/PrP	Materials Science	8	2	2	0
M-P-2	PP	Individual Study of Specialized Literature I	6	-	-	-
Requirement to earn: 14 credits						

Compulsory elective courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-PV-1	PVP/PrP	Technology of Production of Thin Films and Coatings	8	2	2	0
M-PV-2	PVP/PrP	Chemistry of Materials	8	2	2	0
M-PV-3	PVP/PrP	Material Diagnostics	8	2	2	0
Requirement to earn: 16 credits - selection of 2 courses						

1. Academic Year – Summer Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-3	PP/PrP	Physics of Solid Substances	8	2	2	0
M-P-4	PP	Individual Study of Specialized Literature II	6	-	-	-
Requirement to earn: 14 credits						

Compulsory elective courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-PV-4	PVP	Applied Mathematics	8	2	2	0
M-PV-5	PVP/PrP	Applied Chemistry	8	2	2	0
M-PV-6	PVP/PrP	Applied Mechanics	8	2	2	0
Requirement to earn: 16 credits - selection of 2 courses						

2. Academic Year – Winter Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-5	PP	English Language	8	0	4	0
M-P-6	PP	Scientific Activity I	10	-	-	-
M-P-7	PP	Scientific Activity II	12	-	-	-
Requirement to earn: 30 credits						

2. Academic Year – Summer Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-8	PP	Dissertation Project I	6	0	0	4
Requirement to earn: 6 credits						

Dissertation exam - the requirement to pass halfway through the standard length of study at the latest

Dissertation exam						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
Compulsory courses of dissertation exam Requirement to earn: 16 credits						
M-P-9	PŠS/PrP	Defense of Written Work for Dissertation Examination	12	-	-	-
M-P-10	PŠS/PrP	Selected Chapters from Materials Science	4	-	-	-
Compulsory elective courses – group I Requirement to earn: 4 credits – selection of 1 course						
M-PV-7	PŠS/PrP	Selected Chapters from Technology of Production of Thin Films and Coatings	4	-	-	-
M-PV-8	PŠS/PrP	Selected Chapters from Chemistry of Materials	4	-	-	-
M-PV-9	PŠS/PrP	Selected Chapters from Material Diagnostics	4	-	-	-
Compulsory elective courses – group II Requirement to earn: 4 credits – selection of 1 course						
M-PV-10	PŠS	Selected Chapters from Applied Mathematics	4	-	-	-
M-PV-11	PŠS/PrP	Selected Chapters from Applied Chemistry	4	-	-	-
M-PV-12	PŠS/PrP	Selected Chapters from Applied Mechanics	4	-	-	-

3. Academic Year – Winter Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-11	PP	Scientific Activity III	16	-	-	-
M-P-12	PP	Scientific Activity IV	14	-	-	-
Requirement to earn: 30 credits						

3. Academic Year – Summer Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-13	PP	Scientific Activity V	18	-	-	-
M-P-14	PP	Scientific Activity VI	12	-	-	-
Requirement to earn: 30 credits						

4. Academic Year – Winter Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-15	PP	Scientific Activity VII	12	-	-	-
M-P-16	PP	Dissertation Project II	18	0	0	8
Requirement to earn: 30 credits						

4. Academic Year – Summer Semester

Compulsory courses						
Course unit code	Course type	Course	Number of credits	Weekly number of lessons		
				P	C	L
M-P-17	PŠS/PrP	Dissertation Defense	30	-	-	-
Requirement to earn: 30 credits						