

1.	Field of study	Materials Science and Engineering
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2019/2020 (summer term), 2020/2021 (summer term), 2021/2022 (summer term), 2022/2023 (summer term), 2023/2024 (summer term), 2024/2025 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	—

Specialization: Biomaterials

A		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	45	15	30	3	15	30	3									
2	Engineering materials	45	45		3	45		3									
3	Materials chemistry	60	30	30	4	30	30	4									
4	Materials degradation in a biological environment	45	30	15	2	30	15	2									
5	Materials structure testing methods	60	30	30	3	30	30	3									
6	Selected issues from biomaterials toxicology	45	30	15	2	30	15	2									
7	Solid state physics	60	30	30	4	30	30	4									
8	Specialist subject 1 (see description below) <i>*[see description below]</i>	45	30	15	3	30	15	3									
9	Unconventional biomaterials	45	30	15	3	30	15	3									
10	Dental materials	45	30	15	2				30	15	2						
11	Diploma laboratory 1	60		60	4					60	4						
12	Engineering materials designing and manufacturing	60	30	30	3				30	30	3						
13	Engineering materials structure and properties forming	45	15	30	3				15	30	3						
14	Implants and artificial organs	45	30	15	3				30	15	3						
15	M.Sc. seminar 1	30		30	3					30	3						
16	Monographic lecture 1 (see description below) <i>*[see description below]</i>	30	30		2				30		2						
17	Production and quality management	30	15	15	2				15	15	2						
18	Specialist subject 2 (see description below) <i>*[see description below]</i>	60	30	30	4				30	30	4						
19	Tissue engineering	30	15	15	2				15	15	2						
20	Diploma laboratory 2	30		30	2									30	2		
21	M.Sc. seminar 2	30		30	3									30	3		
22	Monographic lecture 2 (see description below) <i>*[see description below]</i>	30	30		2									30	2		
23	Specialist subject 3 (see description below) <i>*[see description below]</i>	60	30	30	3									30	3		
TOTAL A:		1035	525	510	65	270	180	27	195	240	28	60	90	10			

C - OTHER REQUIREMENTS

C - OTHER REQUIREMENTS		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Humanist module	30	30		3	30		3									

C - OTHER REQUIREMENTS								year 1			year 2					
								form of teaching			semester 1			semester 2		
No.	Module	Lang.	E/C	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E
2	Foreign language	PL	Z	30		30	2				30		2			
3	Intellectual property protection	PL	Z	15	15		1							15		1
4	M.Sc. thesis preparation	PL	Z				16									16
5	Social module	PL	Z	30	30		3							30		3
TOTAL C - OTHER REQUIREMENTS:				105	75	30	25	30	0	3	0	30	2	45	0	20
TOTAL:				1140	600	540	90	480	30	465	30	195	30			
TOTAL								1140								

The study ends with the awarding of a Master's Degree in the field of Materials Science and Engineering: Biomaterials.

* Groups of modules

Specialist subject 1 (see description below)

Description:						
The second degree students(specialization: Biomaterials) have an opportunity to choose some subjects from the prepared list (3 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.						
Modules:						
Specialised subject 1. X-ray, electron, and neutron diffraction	Lang.	E/C	L	O	ECTS	
Specialised subject 1. Shape memory alloys	PL	C	30	15	3	
	PL	C	30	15	3	

Specialist subject 2 (see description below)

Description:						
The second degree students(specialization: Biomaterials) have an opportunity to choose some subjects from the prepared list (4 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.						
Modules:						
Specialised subject 2. Implants of alloys featuring shape memory effect	Lang.	E/C	L	O	ECTS	
Specialised subject 2. Modern microscopic and spectral methods	PL	E	30	30	4	
	PL	E	30	30	4	

Specialist subject 3 (see description below)

Description:						
The second degree students(specialization: Biomaterials) have an opportunity to choose some subjects from the prepared list (3 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.						
Modules:						
Specialised subject 3. Modelling implants properties by means of FEM	Lang.	E/C	L	O	ECTS	
Specialised subject 3. Testing biomaterials corrosion resistance and biocompatibility	PL	E	30	30	3	
	PL	E	30	30	3	

Monographic lecture 1 (see description below)

Description:						
The second degree students(specialization: Biomaterials) have an opportunity to choose some subjects from the prepared list (2 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.						
Modules:						
Monographic lecture 1. Intelligent materials	Lang.	E/C	L	O	ECTS	
	PL	C	30		2	

Monographic lecture 1. Nuclear techniques in materials testing	PL	C	30		2
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Monographic lecture 2 (see description below)

Description:					
The second degree students(specialization: Biomaterials) have an opportunity to choose some subjects from the prepared list (2 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.					
Modules:					
	Lang.	E/C	L	O	ECTS
Monographic lecture 2. Modification of biomaterials surface	PL	C	30		2
Monographic lecture 2. Scanning probe microscopy	PL	C	30		2

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

1.	Field of study	Materials Science and Engineering
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2019/2020 (summer term), 2020/2021 (summer term), 2021/2022 (summer term), 2022/2023 (summer term), 2023/2024 (summer term), 2024/2025 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	—

Specialization: Quality control of materials and products

A		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	45	15	30	3	15	30	3									
2	Engineering materials	45	45		3	45		3									
3	Materials chemistry	60	30	30	4	30	30	4									
4	Materials science	45	30	15	4	30	15	4									
5	Methods of testing the structure and properties of materials	60	30	30	3	30	30	3									
6	Solid state physics	60	30	30	4	30	30	4									
7	Specialist subject 1. Statistical process control	45	30	15	3	30	15	3									
8	Techniki kontroli jakości materiałów i wyrobów	75	30	45	3	30	45	3									
9	Diploma laboratory 1	60		60	4					60	4						
10	Engineering materials structure and properties forming	45	15	30	3				15	30	3						
11	M.Sc. seminar 1	30		30	3					30	3						
12	Metrologia techniczna	90	30	60	4				30	60	4						
13	Production and quality management	30	15	15	2				15	15	2						
14	Specialist subject. 2. Integrated quality management systems. 1	60	30	30	4				30	30	4						
15	Surface structure and its modifications	60	30	30	4				30	30	4						
16	Wykład monograficzny 1. Informatyczne systemy wspomaganie jakości	30	30		2				30		2						
17	Zarządzanie laboratorium badawczym	45	30	15	2				30	15	2						
18	Diploma laboratory 2	30		30	2									30	2		
19	M.Sc. seminar 2	30		30	3									30	3		
20	Specialist subject. 3. Integrated quality management systems 2	60	30	30	3									30	30		
21	Wykład monograficzny 2. Zarządzanie ryzykiem	30	30		2									30	2		
TOTAL A:		1035	480	555	65	240	195	27	180	270	28	60	90	10			

C - OTHER REQUIREMENTS

C - OTHER REQUIREMENTS		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Humanist module	30	30		3	30		3									
2	Foreign language	30		30	2					30	2						
3	Intellectual property protection	15	15		1								15		1		

C - OTHER REQUIREMENTS										year 1			year 2							
No.	Module	Lang.	E/C	form of teaching			Total ECTS	semester 1			semester 2			semester 3						
				Total	L	O		L	O	E	L	O	E	L	O	E				
4	M.Sc. thesis preparation	PL	Z				16											16		
5	Social module	PL	Z	30	30		3									30		3		
				TOTAL C - OTHER REQUIREMENTS:				105	75	30	25	30	0	3	0	30	2	45	0	20
				TOTAL:				1140	555	585	90	465	30	480	30	195	30			
TOTAL										1140										

The study ends with the awarding of a Master's Degree in the field of Materials Science and Engineering: Quality control of materials and products.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

1.	Field of study	Materials Science and Engineering
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2019/2020 (summer term), 2020/2021 (summer term), 2021/2022 (summer term), 2022/2023 (summer term), 2023/2024 (summer term), 2024/2025 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	—

Specialization: Functional Materials

A		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	45	15	30	3	15	30	3									
2	Engineering materials	30	30		3	30		3									
3	Materials chemistry	75	30	45	4	30	45	4									
4	Materials structure testing methods	60	30	30	3	30	30	3									
5	Selected issues from biomaterials toxicology	90	60	30	4	60	30	4									
6	Solid state physics	60	30	30	4	30	30	4									
7	Specialised subject 1	45	30	15	3	30	15	3									
8	Unconventional biomaterials	60	30	30	3	30	30	3									
9	Dental materials	45	30	15	2				30	15	2						
10	Diploma laboratory 1	60		60	4					60	4						
11	Engineering materials designing and manufacturing	60	30	30	4				30	30	4						
12	Engineering materials structure and properties forming	45	15	30	3				15	30	3						
13	Implants and artificial organs	60	30	30	4				30	30	4						
14	M.Sc. seminar 1	30		30	3					30	3						
15	Monographic lecture 1. The influence of defects on functional materials properties	30	30		2				30		2						
16	Production and quality management	30	15	15	2				15	15	2						
17	Specialised subject 2. Shape memory alloys	60	30	30	4				30	30	4						
18	Diploma laboratory 2	30		30	2									30	2		
19	M.Sc. seminar 2	30		30	3									30	3		
20	Monographic lecture 2	30	30		2									30	2		
21	Specialised subject 3	60	30	30	3									30	3		
		TOTAL A:	1035	495	540	65	255	210	27	180	240	28	60	90	10		

C - OTHER REQUIREMENTS

C - OTHER REQUIREMENTS		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Humanist module	30	30		3	30		3									
2	Foreign language	30		30	2					30	2						
3	Intellectual property protection	15	15		1								15		1		

C - OTHER REQUIREMENTS										year 1						year 2				
No.	Module	Lang.	E/C	form of teaching			Total ECTS	semester 1			semester 2			semester 3						
				Total	L	O		L	O	E	L	O	E	L	O	E				
4	M.Sc. thesis preparation	PL	Z				16											16		
5	Social module	PL	Z	30	30		3									30		3		
				TOTAL C - OTHER REQUIREMENTS:				105	75	30	25	30	0	3	0	30	2	45	0	20
				TOTAL:				1140	570	570	90	495	30	450	30	195	0	30		
TOTAL										1140										

The study ends with the awarding of a Master's Degree in the field of Materials Science and Engineering: Functional Materials.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

1.	Field of study	Materials Science and Engineering
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2019/2020 (summer term), 2020/2021 (summer term), 2021/2022 (summer term), 2022/2023 (summer term), 2023/2024 (summer term), 2024/2025 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	—

Specialization: Materials Science

A		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	45	15	30	3	15	30	3									
2	Engineering materials	45	45		3	45		3									
3	Materials chemistry	60	30	30	4	30	30	4									
4	Materials science	45	30	15	4	30	15	4									
5	Materials structure testing methods	60	30	30	3	30	30	3									
6	Solid state physics	60	30	30	4	30	30	4									
7	Specialist subject 1 (see description below) <i>*[see description below]</i>	45	30	15	3	30	15	3									
8	Unconventional techniques for materials manufacturing	75	30	45	3	30	45	3									
9	Computer modelling of materials structure and properties	90	30	60	4				30	60	4						
10	Diploma laboratory 1	60		60	4					60	4						
11	Engineering materials structure and properties forming	45	15	30	3				15	30	3						
12	M.Sc. seminar 1	30		30	3					30	3						
13	Monographic lecture 1 (see description below) <i>*[see description below]</i>	30	30		2				30		2						
14	Production and quality management	30	15	15	2				15	15	2						
15	Project management	45	30	15	2				30	15	2						
16	Specialist subject 2 (see description below) <i>*[see description below]</i>	60	30	30	4				30	30	4						
17	Surface structure and its modifications	60	30	30	4				30	30	4						
18	Diploma laboratory 2	30		30	2									30	2		
19	M.Sc. seminar 2	30		30	3									30	3		
20	Monographic lecture 2 (see description below) <i>*[see description below]</i>	30	30		2									30	2		
21	Specialist subject 3 <i>*[see description below]</i>	60	30	30	3									30	3		
TOTAL A:		1035	480	555	65	240	195	27	180	270	28	60	90	10			

C - OTHER REQUIREMENTS

C - OTHER REQUIREMENTS		Lang.		E/C		form of teaching			year 1						year 2		
									semester 1			semester 2			semester 3		
									L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E			
1	Humanist module	30	30		3	30		3									
2	Foreign language	30		30	2					30	2						
3	Intellectual property protection	15	15		1								15		1		

C - OTHER REQUIREMENTS										year 1			year 2							
No.	Module	Lang.	E/C	form of teaching			Total ECTS	semester 1			semester 2			semester 3						
				Total	L	O		L	O	E	L	O	E	L	O	E				
4	M.Sc. thesis preparation	PL	Z				16										16			
5	Social module	PL	Z	30	30		3							30			3			
				TOTAL C - OTHER REQUIREMENTS:				105	75	30	25	30	0	3	0	30	2	45	0	20
				TOTAL:				1140	555	585	90	465	30	480	30	195	0	30		
TOTAL										1140										

The study ends with the awarding of a Master's Degree in the field of Materials Science and Engineering: Materials Science.

* Groups of modules

Specialist subject 1 (see description below)

Description:													
The second degree students(specialization: Material Science) have an opportunity to choose some subjects from the prepared list (3 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.													
Modules:									Lang.	E/C	L	O	ECTS
Specialised subject 1. Metallic biomaterials									PL	C	30	15	3
Specialised subject 1. X-ray, electron, and neutron diffraction									PL	C	30	15	3
Specialised subject 1. Phase transitions in amorphous and nanocrystalline materials									PL	C	30	15	3
Specialised subject 1. Review of programming languages used in materials engineering									PL	C	30	15	3

Specialist subject 2 (see description below)

Description:													
The second degree students(specialization: Material Science) have an opportunity to choose some subjects from the prepared list (4 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.													
Modules:									Lang.	E/C	L	O	ECTS
Specialised subject 2. Basics of ab initio methods of computer materials modelling									PL	E	30	30	4
Specialised subject 2. Ceramic and polymer materials in medicine									PL	E	30	30	4
Specialised subject 2. Metallic glasses and nanomaterials									PL	E	30	30	4
Specialised subject 2. Modern microscopic and spectral methods									PL	E	30	30	4

Specialist subject 3

Description:													
The second degree students(specialization: Material Science) have an opportunity to choose some subjects from the prepared list (3 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.													
Modules:									Lang.	E/C	L	O	ECTS
Specialised subject 3. Advanced IT techniques in medicine									PL	E	30	30	3
Specialised subject 3. Modelling of processes proceeding in engineering materials									PL	E	30	30	3
Specialised subject 3. Non-magnetic nanomaterials									PL	E	30	30	3
Specialised subject 3. Physical methods of materials testing									PL	E	30	30	3
Specialist subject 3. Elements of machine constructions									PL	E	30	30	3

Monographic lecture 1 (see description below)

Description:					
The second degree students(specialization: Material Science) have an opportunity to choose some subjects from the prepared list (2 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.					
Modules:					
Monographic lecture 1. Advanced numerical methods in materials modelling	Lang.	E/C	L	O	ECTS
	PL	C	30		2
Monographic lecture 1. Magnetic nanomaterials	PL	C	30		2
Monographic lecture 1. Nuclear techniques in materials testing	PL	C	30		2
Monographic lecture 1. Shape memory alloys in medicine	PL	C	30		2

Monographic lecture 2 (see description below)

Description:					
The second degree students(specialization: Material Science) have an opportunity to choose some subjects from the prepared list (2 ECTS) in agreement with university authorities. The main aim is to agree the subject of lectures with the issues of the diploma thesis. The dean decides about which subjects will be taught, taking into account the number of students in the groups.					
Modules:					
Monographic lecture 2. Analysis of experimental data obtained in selected spectroscopic studies of materials	Lang.	E/C	L	O	ECTS
	PL	C	30		2
Monographic lecture 2. Nanocomposites	PL	C	30		2
Monographic lecture 2. Nanomaterials in medicine	PL	C	30		2
Monographic lecture 2. Scanning probe microscopy	PL	C	30		2

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)

1.	Field of study	Materials Science and Engineering
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4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	Academic year for which the revised course structure applies	—

Specialization: Recycling

A		Lang.		E/C		form of teaching				year 1						year 2		
										semester 1			semester 2			semester 3		
										L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E				
1	Engineering materials	45	45		3	45		3										
2	Materials chemistry	75	30	45	4	30	45	4										
3	Materials science	45	30	15	4	30	15	4										
4	Materials structure testing methods	60	30	30	3	30	30	3										
5	Physico-chemical methods of waste treatment	45	15	30	3	15	30	3										
6	Podstawy gospodarki odpadami	45	30	15	3	30	15	3										
7	Solid state physics	60	30	30	4	30	30	4										
8	Specialised subject 1	45	30	15	3	30	15	3										
9	Computer modelling of materials structure and properties	90	30	60	4				30	60	4							
10	Diploma laboratory 1	60		60	4					60	4							
11	Engineering materials designing and manufacturing	60	30	30	3				30	30	3							
12	Engineering materials structure and properties forming	45	15	30	3				15	30	3							
13	M.Sc. seminar 1	30		30	3					30	3							
14	Monographic lecture 1	30	30		2				30		2							
15	Production and quality management	30	15	15	2				15	15	2							
16	Selected topics from recycled materials	60	15	45	3				15	45	3							
17	Specialised subject 2	60	30	30	4				30	30	4							
18	Diploma laboratory 2	30		30	2									30	2			
19	M.Sc. seminar 2	30		30	3									30	3			
20	Monographic lecture 2	30	30		2									30	2			
21	Specialised subject 3	60	30	30	3									30	3			
TOTAL A:						1035	465	570	65	240	180	27	165	300	28	60	90	10

C - OTHER REQUIREMENTS

C - OTHER REQUIREMENTS		Lang.		E/C		form of teaching				year 1						year 2		
										semester 1			semester 2			semester 3		
										L	O	E	L	O	E	L	O	E
No.	Module	Total	L	O	Total ECTS	L	O	E	L	O	E	L	O	E				
1	Humanist module	30	30		3	30		3										
2	Foreign language	30		30	2					30	2							
3	Intellectual property protection	15	15		1									15	1			

C - OTHER REQUIREMENTS										year 1						year 2				
No.	Module	Lang.	E/C	form of teaching			Total ECTS	semester 1			semester 2			semester 3						
				Total	L	O		L	O	E	L	O	E	L	O	E				
4	M.Sc. thesis preparation	PL	Z				16											16		
5	Social module	PL	Z	30	30		3									30		3		
				TOTAL C - OTHER REQUIREMENTS:				105	75	30	25	30	0	3	0	30	2	45	0	20
				TOTAL:				1140	540	600	90	450	30	495	30	195	30	1140		
TOTAL										1140										

The study ends with the awarding of a Master's Degree in the field of Materials Science and Engineering: Recycling.

Legend

Each semester consists of 15 weeks

E/C - examination/course work

E - ECTS

L - lecture, O - all forms of teaching excluding lecture (practical classes, laboratory classes, discussion classes, seminar, proseminar, language classes, field practice, workshop, internship, tutoring)