

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)

Plan studiów zatwierdzony przez Radę Wydziału w dniu 06.03.2012 r.

Otrzymują:

1. Dział Kształcenia
2. Wydział Informatyki i Nauki o Materiałach
3. Dziekanat

.....
(pieczęć i podpis Dyrektora Instytutu)

.....
(pieczęć i podpis Dziekana)

1.	Field of study	Materials Science and Engineering
2.	Academic year of entry	2015/2016 (winter term), 2016/2017 (winter term), 2017/2018 (winter term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	first-cycle studies (in engineering)
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0715 (Mechanics and metal trades)

Specialization: Materials Science

A

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3			year 4		
			Total	L	O		semester 1	semester 2	semester 3	semester 4	semester 5	semester 6	semester 7					
			L	O	E		L	O	E	L	O	E	L	O	E	L	O	E
1	Basics of management	Z	45	30	15	3	30	15	3									
2	Crystallography	E	60	30	30	5	30	30	5									
3	Applied mathematics 1	E	60	30	30	5	30	30	5									
4	Chemistry 1	E	60	30	30	5	30	30	5									
5	Computer science and IT	Z	60	30	30	4	30	30	4									
6	Physics 1	E	90	45	45	6	45	45	6									
7	Chemistry 2	E	60	30	30	4				30	30	4						
8	Applied mathematics 2	E	60	30	30	5				30	30	5						
9	Mathematical-physical basis of materials science	Z	75	30	45	3				30	45	3						
10	Physics 2	E	75	30	45	5				30	45	5						
11	Programming languages	E	60	30	30	3				30	30	3						
12	Technical drawing	Z	45	15	30	3				15	30	3						
13	Technical thermodynamics	Z	45	30	15	3				30	15	3						
14	Basics of electronics and electrotechnics	E	60	30	30	4					30	30	4					
15	Basics of materials science	E	150	75	75	9					75	75	9					
16	Designing and engineering graphics	Z	45	15	30	3					15	30	3					
17	Materials economics	Z	45	30	15	4					30	15	4					
18	Materials electrochemistry	E	60	30	30	4					30	30	4					
19	Materials testing methods 1	E	75	30	45	4					30	45	4					
20	Ceramics	E	60	30	30	4							30	30	4			
21	Composites	Z	45	25	20	3							25	20	3			
22	Corrosion and corrosion protection	Z	45	20	25	3							20	25	3			
23	Materials testing methods 2	E	75	30	45	4							30	45	4			
24	Metals and alloys	E	60	30	30	4							30	30	4			
25	Numerical methods and algorithms	E	45	15	30	3							15	30	3			
26	Polymers	E	60	30	30	3							30	30	3			
27	Selected marketing issues	E	30	15	15	3							15	15	3			

A

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3			year 4											
			Total	L	O		semester 1	semester 2	semester 3	semester 4	semester 5	semester 6	semester 7														
			L	O	E		L	O	E	L	O	E	L	O	E	L	O	E									
28	Biomaterials	E	45	30	15	3								30	15	3											
29	Databases on materials	Z	60	30	30	4								30	30	4											
30	Materials for electronics and electrotechnics	Z	45	25	20	3								25	20	3											
31	Materials technologies and processing	E	150	75	75	9								75	75	9											
32	Mechanics and strength of materials	E	75	45	30	3								45	30	3											
33	Object oriented programming and computer simulations	E	60	30	30	4								30	30	4											
34	Diploma laboratory 1	Z	30		30	3															30	3					
35	Diploma seminar 1	Z	15		15	2															15	2					
36	Materials recycling	Z	45	15	30	5															15	30	5				
37	Materials surface engineering	E	45	30	15	3															30	15	3				
38	Nanomaterials and nanotechnologies	E	60	30	30	4															30	30	4				
39	Principles of materials designing and selection	E	60	30	30	5															30	30	5				
40	Specialised subject 1	Z	30	30		2															30		2				
41	Diploma laboratory 2	Z	60		60	5																	60	5			
42	Diploma seminar 2	Z	30		30	5																	30	5			
43	Specialised subject 2	Z	30	30		2																30		2			
TOTAL A:			2490	1195	1295	171	195	180	28	195	225	26	210	225	28	195	225	27	235	200	26	135	150	24	30	90	12

B - INTERNSHIPS AND FIELD WORK

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3			year 4												
			Total	L	O		semester 1	semester 2	semester 3	semester 4	semester 5	semester 6	semester 7															
			L	O	E		L	O	E	L	O	E	L	O	E	L	O	E										
1	Professional training	Z				6																						
TOTAL B - INTERNSHIPS AND FIELD WORK:			0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	

C - OTHER REQUIREMENTS

No.	Module	E/C	form of teaching			Total ECTS	year 1			year 2			year 3			year 4											
			Total	L	O		semester 1	semester 2	semester 3	semester 4	semester 5	semester 6	semester 7														
			L	O	E		L	O	E	L	O	E	L	O	E	L	O	E									
1	Foreign language 1	Z	30		30	2		30	2																		
2	Foreign language 2	Z	30		30	2				30	2																
3	Psychological aspects of working environment	Z	30	15	15	2				15	15	2															
4	Foreign language 3	Z	30		30	2						30	2														
5	Foreign language 4	E	30		30	2							30	2													
6	Physical education	Z	30		30	1							30	1													
7	Intellectual property protection	Z	15	15		1															15		1				
8	Module University-widy	Z	30	30		3															30		3				
9	Diploma thesis preparation	Z				15																					15

