

A

No.	Module	E/C	form of teaching				year 1			year 2			year 3			year 4																				
			Total	L	O	Total ECTS	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	L	O	E	L	O	E									
28	IT techniques in medicine	Z	60	30	30	4														30	30	4														
29	Materials manufacturing technologies	E	150	75	75	9														75	75	9														
30	Object oriented programming and computer simulations	E	60	30	30	4														30	30	4														
31	Polymers for medicine	E	60	30	30	5														30	30	5														
32	Carbon and composite biomaterials	E	60	30	30	5																	30	30	5											
33	Diploma laboratory 1	Z	30		30	3																	30	3												
34	Diploma seminar 1	Z	15		15	2																		15	2											
35	Materials surface engineering	E	45	30	15	3																	30	15	3											
36	Nanomaterials in medicine	E	75	30	45	6																	30	45	6											
37	Principles of materials designing and selection	E	60	30	30	5																	30	30	5											
38	Biological and physiological aspects of biomaterials	Z	45	30	15	2																							30	15	2					
39	Diploma laboratory 2	Z	60		60	5																								60	5					
40	Diploma seminar 2	Z	30		30	5																								30	5					
TOTAL A:			2490	1145	1345	172	195	180	28	195	225	26	255	270	28	155	205	28	195	195	26	120	165	24	30	105	12									

B - INTERNSHIPS AND FIELD WORK

No.	Module	E/C	form of teaching				year 1			year 2			year 3			year 4																				
			Total	L	O	Total ECTS	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	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	0	0	0	0	0	6	0	0	0	0	0	0	

C - OTHER REQUIREMENTS

No.	Module	E/C	form of teaching				year 1			year 2			year 3			year 4																				
			Total	L	O	Total ECTS	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	L	O	E	L	O	E									
1	Physical education	Z	30		30	0			30																											
2	Physical education	Z	30		30	0				30																										
3	Foreign language 1	Z	30		30	2			30	2																										
4	Foreign language 2	Z	30		30	2				30	2																									
5	Psychological aspects of working environment	Z	30	15	15	2				15	15	2																								
6	Foreign language 3	Z	30		30	2							30	2																						
7	Foreign language 4	E	30		30	2								30	2																					
8	Humanist module	Z	30	30		3													30	3																
9	Intellectual property protection	Z	15	15		1													15	1																
10	Diploma thesis preparation	Z				15																													15	
11	Social module	Z	30	30		3																											30	3		
TOTAL C - OTHER REQUIREMENTS:			285	90	195	32	0	60	2	15	75	4	0	30	2	0	30	2	45	0	4	0	0	0	0	30	0	18								
TOTAL:			2775	1235	1540	210	435	30	510	30	555	30	390	30	435	30	285	30	165	30																
TOTAL																		2775																		

The study ends with the awarding of an Engineer - Bachelor's Degree with engineering competencies in the field of Materials Science and Engineering: Biomaterials.

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 22.06.2017 r.

Otrzymują:

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

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

.....
(pieczęć i podpis Dziekana)

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	172	195	180	28	195	225	26	210	225	28	195	225	28	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	Physical education	Z	30		30	0		30																				
2	Physical education	Z	30		30	0				30																		
3	Foreign language 1	Z	30		30	2		30	2																			
4	Foreign language 2	Z	30		30	2				30	2																	
5	Psychological aspects of working environment	Z	30	15	15	2				15	15	2																
6	Foreign language 3	Z	30		30	2						30	2															
7	Foreign language 4	E	30		30	2							30	2														
8	Humanist module	Z	30	30		3														30		3						
9	Intellectual property protection	Z	15	15		1													15		1							
10	Diploma thesis preparation	Z				15																						15

