

1.	Field of study	Materials Science and Engineering
2.	Academic year of entry	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Biomaterials / Intelligent Biomaterials

A

No.	Module	E/C	Total	form of teaching			Total ECTS	year 1						year 2				
				L	O	E		semester 1			semester 2			semester 3				
								L	O	E	L	O	E	L	O	E		
1	Computer networks and their use in materials engineering	Z	45	15	30		3	15	30	3								
2	Engineering materials	Z	45	45			4	45		4								
3	Materials chemistry	E	60	30	30		4	30	30	4								
4	Materials degradation in a biological environment	E	45	30	15		2	30	15	2								
5	Materials structure testing methods	E	60	30	30		4	30	30	4								
6	Selected issues from biomaterials toxicology	E	45	30	15		2	30	15	2								
7	Shape memory alloys	Z	45	30	15		3	30	15	3								
8	Solid state physics	E	60	30	30		4	30	30	4								
9	Unconventional biomaterials	E	45	30	15		3	30	15	3								
10	Dental materials	E	45	30	15		2				30	15	2					
11	Diploma laboratory 1	Z	60		60		4					60	4					
12	Engineering materials designing and manufacturing	E	60	30	30		3				30	30	3					
13	Engineering materials structure and properties forming	E	60	30	30		4				30	30	4					
14	Implants and artificial organs	E	45	30	15		3				30	15	3					
15	Implants of alloys featuring shape memory effect	E	60	30	30		4				30	30	4					
16	Intelligent materials	Z	30	30			1				30		1					
17	M.Sc. seminar 1	Z	30		30		3					30	3					
18	Production and quality management	Z	45	30	15		2				30	15	2					
19	Tissue engineering	Z	30	15	15		2				15	15	2					
20	Diploma laboratory 2	Z	30		30		2									30	2	
21	M.Sc. seminar 2	Z	30		30		3									30	3	
22	Modelling implants properties by means of FEM	E	60	30	30		3							30	30	3		

23	Modification of biomaterials surface	Z	30	30		1									30		1
TOTAL A:			1065	555	510	66	270	180	29	225	240	28	60	90	9		

C - OTHER REQUIREMENTS

No.	Module	E/C	Total	L	O	Total ECTS	year 1						year 2					
							form of teaching			semester 1			semester 2			semester 3		
							L	O	E	L	O	E	L	O	E			
1	Physical education	Z	30		30	1		30	1									
2	Foreign language	Z	30		30	2				30	2							
3	Intellectual property protection	Z	15	15		1							15				1	
4	M.Sc. thesis preparation	Z				20											20	
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21			
TOTAL:			1140	570	570	90	480	30	495	30	165	30						
TOTAL											1140							

The study ends with the awarding of a Master's Degree 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 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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Biomaterials / Biomaterials Testing Methods

A

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2				
			Total	L	O		semester 1			semester 2			semester 3				
							L	O	E	L	O	E	L	O	E		
1	Computer networks and their use in materials engineering	Z	45	15	30	3	15	30	3								
2	Engineering materials	Z	45	45		4	45		4								
3	Materials chemistry	E	60	30	30	4	30	30	4								
4	Materials degradation in a biological environment	E	45	30	15	2	30	15	2								
5	Materials structure testing methods	E	60	30	30	4	30	30	4								
6	Selected issues from biomaterials toxicology	E	45	30	15	2	30	15	2								
7	Solid state physics	E	60	30	30	4	30	30	4								
8	Unconventional biomaterials	E	45	30	15	3	30	15	3								
9	X-ray, electron, and neutron diffraction	Z	45	30	15	3	30	15	3								
10	Dental materials	E	45	30	15	2				30	15	2					
11	Diploma laboratory 1	Z	60		60	4					60	4					
12	Engineering materials designing and manufacturing	E	60	30	30	3				30	30	3					
13	Engineering materials structure and properties forming	E	60	30	30	4				30	30	4					
14	Implants and artificial organs	E	45	30	15	3				30	15	3					
15	M.Sc. seminar 1	Z	30		30	3					30	3					
16	Modern microscopic and spectral methods	E	60	30	30	4				30	30	4					
17	Nuclear techniques in materials testing	Z	30	30		1				30		1					
18	Production and quality management	Z	45	30	15	2				30	15	2					
19	Tissue engineering	Z	30	15	15	2				15	15	2					
20	Diploma laboratory 2	Z	30		30	2									30	2	
21	M.Sc. seminar 2	Z	30		30	3									30	3	
22	Scanning probe microscopy	Z	30	30		1								30		1	

23	Testing biomaterials corrosion resistance and biocompatibility	E	60	30	30	3									30	30	3
TOTAL A:			1065	555	510	66	270	180	29	225	240	28	60	90	9		

C - OTHER REQUIREMENTS

No.	Module	E/C	Total	L	O	Total ECTS	year 1						year 2					
							form of teaching			semester 1			semester 2			semester 3		
							L	O	E	L	O	E	L	O	E			
1	Physical education	Z	30		30	1		30	1									
2	Foreign language	Z	30		30	2				30	2							
3	Intellectual property protection	Z	15	15		1							15				1	
4	M.Sc. thesis preparation	Z				20											20	
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21			
TOTAL:			1140	570	570	90	480	30	495	30	165	30						
TOTAL											1140							

The study ends with the awarding of a Master's Degree 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 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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Materials Science / Materials Testing Methods

A

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	Z	45	15	30	3	15	30	3									
2	Engineering materials	Z	45	45		4	45		4									
3	Materials chemistry	E	60	30	30	4	30	30	4									
4	Materials science	Z	45	30	15	4	30	15	4									
5	Materials structure testing methods	E	60	30	30	4	30	30	4									
6	Nuclear techniques in materials testing	Z	30	30		1	30		1									
7	Solid state physics	E	60	30	30	4	30	30	4									
8	Unconventional techniques for materials manufacturing	Z	75	30	45	3	30	45	3									
9	X-ray, electron, and neutron diffraction	Z	45	30	15	3	30	15	3									
10	Computer modelling of materials structure and properties	E	90	30	60	4				30	60	4						
11	Diploma laboratory 1	Z	60		60	4					60	4						
12	Engineering materials structure and properties forming	E	60	30	30	4				30	30	4						
13	M.Sc. seminar 1	Z	30		30	3					30	3						
14	Modern microscopic and spectral methods	E	60	30	30	4				30	30	4						
15	Production and quality management	Z	45	30	15	2				30	15	2						
16	Project management	Z	45	30	15	2				30	15	2						
17	Surface structure and its modifications	E	60	30	30	4				30	30	4						
18	Diploma laboratory 2	Z	30		30	2										30	2	
19	M.Sc. seminar 2	Z	30		30	3										30	3	
20	Physical methods of materials testing	E	60	30	30	3									30	30	3	

21	Scanning probe microscopy	Z	30	30		1									30		1
TOTAL A:			1065	510	555	66	270	195	30	180	270	27	60	90	9		

C - OTHER REQUIREMENTS

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2				
			Total	L	O		semester 1			semester 2			semester 3				
							L	O	E	L	O	E	L	O	E		
1	Physical education	Z	30		30	1		30	1								
2	Foreign language	Z	30		30	2					30	2					
3	Intellectual property protection	Z	15	15		1								15			1
4	M.Sc. thesis preparation	Z				20											20
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21		
TOTAL:			1140	525	615	90	495	31	480	29	165	30					
TOTAL											1140						

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

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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Materials Science / Functional Materials

A

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	Z	45	15	30	3	15	30	3									
2	Engineering materials	Z	45	45		4	45		4									
3	Materials chemistry	E	60	30	30	4	30	30	4									
4	Materials science	Z	45	30	15	4	30	15	4									
5	Materials structure testing methods	E	60	30	30	4	30	30	4									
6	Shape memory alloys	Z	45	30	15	3	30	15	3									
7	Solid state physics	E	60	30	30	4	30	30	4									
8	Unconventional techniques for materials manufacturing	Z	75	30	45	3	30	45	3									
9	Computer modelling of materials structure and properties	E	90	30	60	4				30	60	4						
10	Diploma laboratory 1	Z	60		60	4					60	4						
11	Engineering materials structure and properties forming	E	60	30	30	4				30	30	4						
12	M.Sc. seminar 1	Z	30		30	3					30	3						
13	Production and quality management	Z	45	30	15	2				30	15	2						
14	Project management	Z	45	30	15	2				30	15	2						
15	Selected applications of functional materials	E	60	30	30	4				30	30	4						
16	Surface structure and its modifications	E	60	30	30	4				30	30	4						
17	The influence of defects on functional materials properties	Z	30	30		1				30		1						
18	Diploma laboratory 2	Z	30		30	2										30	2	
19	M.Sc. seminar 2	Z	30		30	3										30	3	
20	Optical crystals	E	60	30	30	3									30	30	3	

21	Quasi-crystalline materials	Z	30	30		1								30		1
TOTAL A:			1065	510	555	66	240	195	29	210	270	28	60	90	9	

C - OTHER REQUIREMENTS

No.	Module	E/C	Total	L	O	Total ECTS	year 1						year 2					
							form of teaching			semester 1			semester 2			semester 3		
							L	O	E	L	O	E	L	O	E			
1	Physical education	Z	30		30	1		30	1									
2	Foreign language	Z	30		30	2				30	2							
3	Intellectual property protection	Z	15	15		1							15			1		
4	M.Sc. thesis preparation	Z				20										20		
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21			
TOTAL:			1140	525	615	90	465	30	510	30	165	30						
TOTAL							1140											

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

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

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(pieczęć i podpis Dyrektora Instytutu)

.....
(pieczęć i podpis Dziekana)

1.	Field of study	Materials Science and Engineering
2.	Academic year of entry	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Materials Science / Computer Modelling of Materials

A

No.	Module	E/C	Total	form of teaching			Total ECTS	year 1						year 2				
				L	O	E		semester 1			semester 2			semester 3				
								L	O	E	L	O	E	L	O	E		
1	Computer networks and their use in materials engineering	Z	45	15	30		3	15	30	3								
2	Engineering materials	Z	45	45			4	45		4								
3	Materials chemistry	E	60	30	30		4	30	30	4								
4	Materials science	Z	45	30	15		4	30	15	4								
5	Materials structure testing methods	E	60	30	30		4	30	30	4								
6	Review of programming languages used in materials engineering	Z	45	30	15		3	30	15	3								
7	Solid state physics	E	60	30	30		4	30	30	4								
8	Unconventional techniques for materials manufacturing	Z	75	30	45		3	30	45	3								
9	Advanced numerical methods in materials modelling	Z	30	30			1				30			1				
10	Basics of ab initio methods of computer materials modelling	E	60	30	30		4				30	30	4					
11	Computer modelling of materials structure and properties	E	90	30	60		4				30	60	4					
12	Diploma laboratory 1	Z	60		60		4					60	4					
13	Engineering materials structure and properties forming	E	60	30	30		4				30	30	4					
14	M.Sc. seminar 1	Z	30		30		3					30	3					
15	Production and quality management	Z	45	30	15		2				30	15	2					
16	Project management	Z	45	30	15		2				30	15	2					
17	Surface structure and its modifications	E	60	30	30		4				30	30	4					
18	Analysis of experimental data obtained in selected spectroscopic studies of materials	Z	30	30			1								30			1
19	Diploma laboratory 2	Z	30		30		2									30		2
20	M.Sc. seminar 2	Z	30		30		3									30		3

21	Modelling of processes proceeding in engineering materials	E	60	30	30	3									30	30	3
TOTAL A:			1065	510	555	66	240	195	29	210	270	28	60	90	9		

C - OTHER REQUIREMENTS

No.	Module	E/C	Total	form of teaching			Total ECTS	year 1						year 2			
				L	O	E		semester 1			semester 2			semester 3			
								L	O	E	L	O	E	L	O	E	
1	Physical education	Z	30		30	1		30	1								
2	Foreign language	Z	30		30	2					30	2					
3	Intellectual property protection	Z	15	15		1								15			1
4	M.Sc. thesis preparation	Z				20											20
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21		
TOTAL:			1140	525	615	90	465	30	510	30	165	30					
TOTAL											1140						

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

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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Materials Science / Materials for Medicine

A

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2				
			Total	L	O		semester 1			semester 2			semester 3				
							L	O	E	L	O	E	L	O	E		
1	Computer networks and their use in materials engineering	Z	45	15	30	3	15	30	3								
2	Engineering materials	Z	45	45		4	45		4								
3	Materials chemistry	E	60	30	30	4	30	30	4								
4	Materials science	Z	45	30	15	4	30	15	4								
5	Materials structure testing methods	E	60	30	30	4	30	30	4								
6	Metallic biomaterials	Z	45	30	15	3	30	15	3								
7	Solid state physics	E	60	30	30	4	30	30	4								
8	Unconventional techniques for materials manufacturing	Z	75	30	45	3	30	45	3								
9	Ceramic and polymer materials in medicine	E	60	30	30	4				30	30	4					
10	Computer modelling of materials structure and properties	E	90	30	60	4				30	60	4					
11	Diploma laboratory 1	Z	60		60	4					60	4					
12	Engineering materials structure and properties forming	E	60	30	30	4				30	30	4					
13	M.Sc. seminar 1	Z	30		30	3					30	3					
14	Production and quality management	Z	45	30	15	2				30	15	2					
15	Project management	Z	45	30	15	2				30	15	2					
16	Shape memory alloys in medicine	Z	30	30		1				30		1					
17	Surface structure and its modifications	E	60	30	30	4				30	30	4					
18	Advanced IT techniques in medicine	E	60	30	30	3								30	30	3	
19	Diploma laboratory 2	Z	30		30	2									30	2	
20	M.Sc. seminar 2	Z	30		30	3									30	3	

21	Nanomaterials in medicine	Z	30	30		1								30		1
TOTAL A:			1065	510	555	66	240	195	29	210	270	28	60	90	9	

C - OTHER REQUIREMENTS

No.	Module	E/C	Total	L	O	Total ECTS	year 1						year 2					
							form of teaching			semester 1			semester 2			semester 3		
							L	O	E	L	O	E	L	O	E			
1	Physical education	Z	30		30	1		30	1									
2	Foreign language	Z	30		30	2				30	2							
3	Intellectual property protection	Z	15	15		1							15		1			
4	M.Sc. thesis preparation	Z				20									20			
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21			
TOTAL:			1140	525	615	90	465	30	510	30	165	30						
TOTAL										1140								

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

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	2014/2015 (summer term)
3.	Academic year for which the revised course structure applies	—
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	

Specialization: Materials Science / Nanomaterials

A

No.	Module	E/C	form of teaching			Total ECTS	year 1						year 2					
			Total	L	O		semester 1			semester 2			semester 3					
							L	O	E	L	O	E	L	O	E			
1	Computer networks and their use in materials engineering	Z	45	15	30	3	15	30	3									
2	Engineering materials	Z	45	45		4	45		4									
3	Materials chemistry	E	60	30	30	4	30	30	4									
4	Materials science	Z	45	30	15	4	30	15	4									
5	Materials structure testing methods	E	60	30	30	4	30	30	4									
6	Phase transitions in amorphous and nanocrystalline materials	Z	45	30	15	3	30	15	3									
7	Solid state physics	E	60	30	30	4	30	30	4									
8	Unconventional techniques for materials manufacturing	Z	75	30	45	3	30	45	3									
9	Computer modelling of materials structure and properties	E	90	30	60	4				30	60	4						
10	Diploma laboratory 1	Z	60		60	4					60	4						
11	Engineering materials structure and properties forming	E	60	30	30	4				30	30	4						
12	M.Sc. seminar 1	Z	30		30	3					30	3						
13	Magnetic nanomaterials	Z	30	30		1				30		1						
14	Metallic glasses and nanomaterials	E	60	30	30	4				30	30	4						
15	Production and quality management	Z	45	30	15	2				30	15	2						
16	Project management	Z	45	30	15	2				30	15	2						
17	Surface structure and its modifications	E	60	30	30	4				30	30	4						
18	Diploma laboratory 2	Z	30		30	2										30	2	
19	M.Sc. seminar 2	Z	30		30	3										30	3	
20	Nanocomposites	Z	30	30		1									30		1	

21	Non-magnetic nanomaterials	E	60	30	30	3								30	30	3
TOTAL A:			1065	510	555	66	240	195	29	210	270	28	60	90	9	

C - OTHER REQUIREMENTS

No.	Module	E/C	Total	L	O	Total ECTS	year 1						year 2					
							form of teaching			semester 1			semester 2			semester 3		
							L	O	E	L	O	E	L	O	E			
1	Physical education	Z	30		30	1		30	1									
2	Foreign language	Z	30		30	2				30	2							
3	Intellectual property protection	Z	15	15		1							15			1		
4	M.Sc. thesis preparation	Z				20										20		
TOTAL C - OTHER REQUIREMENTS:			75	15	60	24	0	30	1	0	30	2	15	0	21			
TOTAL:			1140	525	615	90	465	30	510	30	165	30						
TOTAL							1140											

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

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)