

PLAN OF REGULAR STUDIES, FIRST DEGREE
faculty: TECHNICAL PHYSICS , speciality - MEDICAL PHYSICS

REGULAR DAILY STUDIES – enrolment 2014/2015

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Lp.	Subject		Summary figures		Curriculum in respective semesters (hours per week)													
			Including:		I		II		III		IV		V		VI		VII	
			H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	H	pt.
A. GENERAL SUBJECTS																		
1	English as a foreign language*	Lab	120	8			2	2			2	2	2	2	2	2		
2	Information technology	Lab	30	2	2	2												
3	Physical education*	T	30	1			2	1										
4	Ethics of medical professions	L	30	2												2	2	
5	Selective subject*		30	1												2	1	
6	Intellectual property protection, occupational safety, ergonomics	L	15	1									1	1				
B. BASIC SUBJECTS																		
7	Mathematical analysis I	T	60	10	4	5												
8	Mathematical analysis I	L	60	4	4	5												
9	Mathematical analysis II	T	45	5			3	3										
10	Mathematical analysis II	L	30	5			2	2										
11	Algebraic and geometrical methods in physics	T	30	5	2	3												
12	Algebraic and geometrical methods in physics	L	15	5	1	2												
13	Fundamentals of physics I - Mechanics	T	45	8	3	4												
14	Fundamentals of physics I - Mechanics	L	45	8	3	4												
15	Fundamentals of physics II - Thermodynamics	T	30	4			2	2										
16	Fundamentals of physics II - Thermodynamics	L	30	4			2	2										
17	Fundamentals of physics III - Electricity and magnetism	T	45	6					3	4								
18	Fundamentals of physics III - Electricity and magnetism	L	30	6					2	2								
19	Fundamentals of physics IV - Optics, modern physics	T	45	6							3	4						
20	Fundamentals of physics IV - Optics, modern physics	L	30	6							2	2						
21	Chemistry	L	30	2			2	2										
22	Foundations of programming in C++ / Introduction to scripting languages*	Lab	45	6			3	4										
23	Foundations of programming in C++ / Introduction to scripting languages*	L	30	6			2	2										
C. FIELD SUBJECTS																		
24	Metrology	T	15	2	1	2												
25	Physics laboratory I - Mechanics, thermodynamics	Lab	45	4			3	4										
26	Physics laboratory I - Electricity and magnetism	Lab	45	4					3	4								
27	Physics laboratory I - Optics, modern physics	Lab	45	4							3	4						
28	Electronics and electrotechnology - Fundamentals of electronic circuits / Electrotechnology and electronics - Foundations of the construction of measuring devices*	Lab	30	5							2	3						
29	Electronics and electrotechnology - Fundamentals of electronic circuits / Electrotechnology and electronics - Foundations of the construction of measuring devices*	L	30	5							2	2						
30	Elements of technical physics	Ć	30	5					2	3								
31	Elements of technical physics	L	30	5					2	2								
32	Engineering graphics	Lab	30	5								2	3					
33	Engineering graphics	L	30	5								2	2					
34	Mathematical methods for engineers	T	45	5					3	3								
35	Mathematical methods for engineers	L	30	5					2	2								
36	Elements of quantum physics	T	30	5								2	3					
37	Elements of quantum physics	L	30	5								2	2					
38	Solid state physics for engineers	T	30	6												2	3	
39	Solid state physics for engineers	L	30	6												2	3	
TOTAL			1425	112	20	27	23	24	19	22	14	17	11	13	8	9	0	0

Legend: L - lecture, T - tutorial, Lab - laboratory, P - project Pr - practice, S – seminar

The lecture courses are closed with an examination
 tutorials, laboratories, projects, seminars — credit and grade

**Examination is made
 by a bold and underlined figure**
 H – hours per week
 pt. - ECTS

*** - Selective subjects**

Lectures: Ethics of medical professions, Chemistry, Foundations of programming in C++ / Introduction to scripting languages, Mathematical methods of physics for engineers, Engineering graphics - **grade**.

Intellectual property protection, occupational safety, ergonomics, Physical education - **credit without grade**

English as a foreign language after each semester — **credit and grade**.

Selective subject*: Language culture / Practical language communication /University-wide elective courses or from another field of study (min 30 hours) - **credit without grade**

Plan studiów zatwierdzono na Radzie Wydziału w dniu 11 marca 2014 r.

Zmiany wprowadzono: 15 kwietnia 2014 r., 17.06.2014 r.

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		H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	H	pt.	
	continued from page 1	1425	112	20	27	23	24	19	22	14	17	11	13	8	9	0	0	
	D. SPECIALIST SUBJECTS																	
40	Introduction to biology and medical biology	L	30	3	2	3												
41	Computer data processing	L	30	2			2	2										
42	Human anatomy and physiology I	L	45	4			3	4										
43	Human anatomy and physiology II	L	45	4					3	4								
44	Elements of medical statistics / Analysis of medical data in R*	T	30						2	2								
45	Elements of medical statistics / Analysis of medical data in R*	L	30						2	2								
46	Elements of medical statistics / Analysis of medical data in R*	Lab	30							2	3							
47	Biophysics	T	30							2	3							
48	Biophysics	L	30							2	2							
49	Biophysics and biochemistry laboratory	L	30	3								2	3					
50	Medical instruments, imaging and diagnostics I	L	30							2	3							
51	Medical instruments, imaging and diagnostics I	L	30							2	2							
52	Medical instruments, imaging and diagnostics II	P	15									1	3					
53	Medical instruments, imaging and diagnostics II	Lab	15									1	2					
54	Medical instruments, imaging and diagnostics II	L	30									2	2					
55	Signal analysis	L	30									2	3					
56	Signal analysis	L	30									2	2					
57	Signal analysis	P	30											2	4			
58	Radiation protection	L	30	2								2	2					
59	Physics in nuclear medicine	Lab	30											2	3			
60	Physics in nuclear medicine	L	15											1	2			
61	Psychology of relations with patients	L	30	3												2	3	
62	Elements of medical rescue	Lab	30	2										2	2			
63	Professional practice*	Pr	30	6													6	
64	Engineering project - imaging, diagnostics*	P	30	5										2	5			
65	Specialist lecture*	L	30	6												2	6	
66	Seminar*	S	30	5										2	5			
67	Bachelor thesis seminar*	S	30	7												2	7	
68	Bachelor thesis*			8													8	
69	Licenciate examination																E	
TOTAL: D			795	98	2	3	5	6	7	8	10	13	12	17	11	21	6	30
Total: A + B + C + D			2220	210	22	30	28	30	26	30	24	30	23	30	19	30	6	30
Number of examinations:					4E	3E			4E	4E			3E		3E		1E+ 1E	

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H – hours per week
 pt. - ECTS

* - Selective subjects

Lectures: Biophysics, radiation protection, Psychology of relations with patients - **credit and grade**

Bachelor thesis - credit

Professional practice after the 6th semester, 4 weeks, credit in semester VII