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

REGULAR DAILY STUDIES – enrolment 2015/2016

Lp.	Subject		Summary figures Including: H	pt.	Curriculum in respective summesters (hours per week) I H	I pt.	II H	II pt.	III H	III pt.	IV H	IV pt.	V H	V pt.	VI H	VI pt.	VII H	VII 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	Selective subject*		30	2											2	2		
5	Subject in the field of humanities - Ethics of medical professions	L	30	2											2	2		
6	Social science subject - Psychology of relations with patients	L	30	3													2	3
7	Intellectual property protection, occupational safety	L	15	2									1	2				
	B. BASIC SUBJECTS																	
8	Mathematical analysis I	T	60	10	4	5												
9	Mathematical analysis I	L	60		**4**	5												
10	Mathematical analysis II	T	45	5			3	3										
11	Mathematical analysis II	L	30				**2**	2										
12	Algebraic and geometrical methods in physics	T	30	5	2	3												
13	Algebraic and geometrical methods in physics	L	15		**1**	2												
14	Fundamentals of physics I - Mechanics	T	45	8	3	4												
15	Fundamentals of physics I - Mechanics	L	45		**3**	4												
16	Fundamentals of physics II - Thermodynamics	T	30	4			2	2										
17	Fundamentals of physics II - Thermodynamics	L	30				**2**	2										
18	Fundamentals of physics III - Electricity and magnetism	T	45	6					3	4								
19	Fundamentals of physics III - Electricity and magnetism	L	30						**2**	2								
20	Fundamentals of physics IV - Optics, modern physics	T	45	6							3	4						
21	Fundamentals of physics IV - Optics, modern physics	L	30								**2**	2						
22	Chemistry	L	30	2			2	2										
23	Foundations of programming in C++ / Introduction to scripting languages*	Lab	45	6			3	4										
24	Foundations of programming in C++ / Introduction to scripting languages*	L	30				2	2										
	C. FIELD SUBJECTS																	
25	Metrology	T	15	2	1	2												
26	Physics laboratory I - Mechanics, thermodynamics	Lab	45	4			3	4										
27	Physics laboratory I - Electricity and magnetism	Lab	45	4					3	4								
28	Physics laboratory I - Optics, modern physics	Lab	45	4							3	4						
29	Electronics and electrotechnology - Fundamentals of electronic circuits / Electrotechnology and electronics - Foundations of the construction of measuring devices*	Lab	30	5							2	3						
30	Electronics and electrotechnology - Fundamentals of electronic circuits / Electrotechnology and electronics - Foundations of the construction of measuring devices*	L	30								**2**	2						
31	Elements of technical physics	Ć	30	5					2	3								
32	Elements of technical physics	L	30						**2**	2								
33	Engineering graphics	Lab	30	4									2	2				
34	Engineering graphics	L	30										2	2				
35	Mathematical methods for engineers	T	45	5					3	3								
36	Mathematical methods for engineers	L	30						2	2								
37	Elements of quantum physics	T	30	5									2	3				
38	Elements of quantum physics	L	30										**2**	2				
39	Solid state physics for engineers	T	30	6											2	3		
40	Solid state physics for engineers	L	30												**2**	3		
	TOTAL		1455	116	20	27	23	24	19	22	14	17	11	13	8	10	2	3

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 maked by a bold and underlined figure

H – hours per week

pt. - ECTS

*** - Selective subjects**

Lectures: Ethics of medical professions, Psychology of relations with patients, Chemistry, Foundations of programming in C++ / Introduction to scripting languages, Mathematical methods of physics for engineers, Engineering graphics, Intellectual property protection, occupational safety - credit and grade.

Physical education - credit without grade

Selective subject*: Natural sciences methodology / Practical language communication /University-wide elective courses or from another field of study (30 hours, 2 ECTS) - credit without grade

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

Plan studiów zatwierdzono na Radzie Wydziału w dniu: 28.04.2015 r.

Zmiany wprowadzono:

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	continued from page 1		1455	116	20	27	23	24	19	22	14	17	11	13	8	10	2	3
	D. SPECIALIST SUBJECTS																	
41	Introduction to biology and medical biology	L	30	3	**2**	3												
42	Computer data processing	L	30	2			2	2										
43	Human anatomy and physiology I	L	45	4			**3**	4										
44	Human anatomy and physiology II	L	45	4					**3**	4								
45	Elements of medical statistics I / Analysis of medical data in R* I	T	30	4					2	2								
46	Elements of medical statistics I / Analysis of medical data in R* I	L	30						**2**	2								
47	Elements of medical statistics II / Analysis of medical data in R* II	Lab	30	3							2	3						
48	Biophysics	T	30	5							2	3						
49	Biophysics	L	30								2	2						
50	Biophysics and biochemistry laboratory	L	30	3									2	3				
51	Medical instruments, imaging and diagnostics I	L	30	5							2	3						
52	Medical instruments, imaging and diagnostics I	L	30								**2**	2						
53	Medical instruments, imaging and diagnostics II	P	15	7									1	3				
54	Medical instruments, imaging and diagnostics II	Lab	15										1	2				
55	Medical instruments, imaging and diagnostics II	L	30										**2**	2				
56	Signal analysis I	L	30	5									2	3				
57	Signal analysis I	L	30										**2**	2				
58	Signal analysis II	P	30	4											2	4		
59	Radiation protection	L	30	2									2	2				
60	Physics in nuclear medicine	Lab	30	4											2	2		
61	Physics in nuclear medicine	L	15												**1**	2		
62	Elements of medical rescue	Lab	30	2											2	2		
63	Professional practice*	Pr		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		765	94	**2**	**3**	**5**	**6**	**7**	**8**	**10**	**13**	**12**	**17**	**11**	**20**	**6**	**27**
	Total: A + B + C + D		2220	210	**22**	**30**	**28**	**30**	**26**	**30**	**24**	**30**	**23**	**30**	**19**	**30**	**8**	**30**
	Number of examinations:				**4E**		**3E**		**4E**		**4E**		**3E**		**3E**		**1E+**	**1E**

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

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H – hours per week

pt. - ECTS

*** - Selective subjects**

Lectures: Biophysics, Radiation protection - credit and grade
Bachelor thesis - credit
Professional practice after the 6th semester, 4 weeks, credit in semester VII