

L.P.	Name of MODULE/Name of SUBJECT	SUBJECT CODE	ECTS score	Exam after sem.	Credit after sem.	Number of hours										I year			II year				III year												
						TOTAL	LECTURES	EXERCISES	COLLOQUIUM SEMINAR	LABS	LANGUAGE COURSES	SEMINARS/ PROSEMINARS	FIELD TRIPS	1 sem.			2 sem.			3 sem.			4 sem.			5 sem.			6 sem.						
														LECTURES	EX/CS/L/LC/S&P/FT	ECTS	LECTURES	EX/CS/L/LC/S&P/FT	ECTS	LECTURES	EX/CS/L/LC/S&P/FT	ECTS	LECTURES	EX/CS/L/LC/S&P/FT	ECTS	LECTURES	EX/CS/L/LC/S&P/FT	ECTS	LECTURES	EX/CS/L/LC/S&P/FT	ECTS	LECTURES	EX/CS/L/LC/S&P/FT	ECTS	
<b>MODULE 1 (Foundation of physics)</b>																																			
1	Introduction to physics		9	1	1	105	45		45	15			45	60	9																				
2	Classical Mechanics		8	2	2	90	30		30	30						30	60	8																	
3	Analysis of Experimental Uncertainty		2		2	30	15			15						15	15	2																	
4	Electricity and magnetism with optics		8	3	3	90	30		30	30									30	60	8														
5	Thermodynamics		8	3	3	90	30		30	30									30	60	8														
6	Astronomy		2		4	30	15			15												15	15	2											
7	Structure of matter		6	5	5	68	30		30	8																		30	38	6					
TOTAL			43			503	195		165	143			45	60	9	45	75	10	60	120	16	15	15	2	30	38	6								
<b>MODULE 2 (Mathematical tools)</b>																																			
1	Introduction to mathematics		6	1	1	75	30		45				30	45	6																				
2	Differential and integral calculus I		5	1	1	60	30		30				30	30	5																				
3	Differential and integral calculus II		6	2	2	75	30		45						30	45	6																		
4	Algebra with geometry		6	2	2	75	30		45						30	45	6																		
5	Statistical data analysis		5	3	3	75	30		45								30	45	5																
TOTAL			28			360	150		165	45			60	75	11	60	90	12	30	45	5														
<b>MODULE 3 (Chosen problems of theoretical physics)</b>																																			
1	Elements of classical electrodynamics		6	4	4	60	30		30													30	30	6											
2	Elements of quantum mechanics		6	5	5	60	30		30																	30	30	6							
TOTAL			12			120	60		60													30	30	6	30	30	6								
<b>MODULE 4 (Tools of computer science)</b>																																			
1	Computer tools		3		1	45	15		30				15	30	3																				
2	Computer-aided computations		3		2	30			30							30	3																		
3	Programming I		5		3	60	15		45									15	45	5															
4	Programming II		5		4	60	15		45												15	45	5												
5	Algorithms and data structures		5		5	60	15		45																	15	45	5							
6	Numerical methods		5	5	5	60	15		45																15	45	5								
TOTAL			26			315	75		240				15	30	3	30	3	15	45	5	15	45	5	30	90	10									
<b>MODULE 5 (Application of physics in medicine and technology)</b>																																			
1	Electronics		5		4	75	30		45												30	45	5												
2	Physics in medicine I		2		5	30	30																	30		2									
3	Physics in medicine II		2		6	30	30																					30							2
4	Equipment of medical diagnostics and therapy		3		6	45	15		30																				15	30		3			
TOTAL			12			180	105		75													30	45	5	30		2	45	30	5					
<b>MODULE 6 (Practical and specialist education)</b>																																			

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						TOTAL	LECTURES	EXERCISES	COLLOQUIUM SEMINAR	LABS	LANGUAGE COURSES	SEMINARS/ PROSEMINARS	FIELD TRIPS	1 sem.	2 sem.	3 sem.	4 sem.	5 sem.	6 sem.													
1	Elements of chemistry		3	1	1	45	30			15					30	15	3															
2	Cell physiology and histology		3	3	3	45	30		15																							
3	Human anatomy and physiology		3	4	4	45	30		15												30	15	3									
4	Introduction to biophysics		4	4	4	60	30			30											30	30	4									
5	Radionuclids in medicine		3		5	45	15		15	15													15	30	3							
6	Image diagnostics		2		5	45	30			15													30	15	2							
7	Elements of histopatology		2		5	30	20		10														20	10	2							
8	Radiation hygiene		2		4	30	15		15												15	15	2									
<b>TOTAL</b>						<b>345</b>	<b>200</b>		<b>70</b>	<b>75</b>				<b>30</b>	<b>15</b>	<b>3</b>					<b>30</b>	<b>15</b>	<b>3</b>	<b>75</b>	<b>60</b>	<b>9</b>	<b>65</b>	<b>55</b>	<b>7</b>			

**MODULE 7 (General education)**

1	Foreign language course		6	2	1,2	120				120				60	3		60	3															
2	Physical exercises		0		2	30		30									30	0															
3	Ethic and law in medicine		1		3	15	15									15		1															
4	Quality management		1		4	15	15										15			1													
5	Basics of entrepreneurship		2		6	30	15		15																		15	15	2				
6	History of physics		3		6	30			30																				30	3			
7	Legal aspects of scientific and professional activity		1		6	15	15																				15						
<b>TOTAL</b>						<b>14</b>			<b>255</b>	<b>60</b>	<b>30</b>	<b>45</b>		<b>120</b>			<b>60</b>	<b>3</b>		<b>90</b>	<b>3</b>	<b>15</b>		<b>1</b>	<b>15</b>		<b>1</b>				<b>30</b>	<b>45</b>	<b>6</b>

**MODULE 8 (Recapitulation of learning)**

1	Elements of contemporary physics		3		4	30				30											30	3											
2	Diploma seminar		16		6	40					40																	40	16				
<b>TOTAL</b>						<b>19</b>			<b>70</b>													<b>30</b>	<b>3</b>					<b>40</b>	<b>16</b>				

**MODULE 9 (Practical Training)**

1	Practical Training		4		4	120															120	4												
<b>TOTAL</b>						<b>4</b>			<b>120</b>													<b>120</b>	<b>4</b>											

**MODULE 10 (Elective)**

1	Monographic lecture		<i>a</i>																															
2	Lecture on the other Faculty		<i>b</i>																															
<b>TOTAL</b>																																		

<b>TOTAL</b>						<b>180</b>			<b>2268</b>	<b>965</b>	<b>30</b>	<b>505</b>	<b>608</b>	<b>120</b>	<b>40</b>		<b>150</b>	<b>240</b>	<b>29</b>	<b>105</b>	<b>285</b>	<b>28</b>	<b>150</b>	<b>225</b>	<b>30</b>	<b>180</b>	<b>345</b>	<b>35</b>	<b>185</b>	<b>213</b>	<b>31</b>	<b>75</b>	<b>115</b>	<b>27</b>
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*a* Number of the ECTS credits, realisation time, type (lecture, exercise, etc) depend on the offer of the Faculty. Min. ECTS = 3.

*b* Number of the ECTS credits is determined by the other Faculty. Min. ECTS = 1.

Average number of lesson hours per week

10	16		7	19		10	15		12	23		12	14		5	8	
26			26			25			35			27			13		
4	6		4	7		4	6		3	10		3	8		6		

number ex./cr.

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