



**WORK CURRICULUM**

on 2021/ 2022 academic year

**APPROVED**  
by Vice-rector for educational work of Igor Sikorsky Kyiv Polytechnic Institute

Anatoly MELNICHENKO

" " 2021 year

Specialty according to the educational and professional program

Level

Graduation Department

**Enrolment 2020**  
- 163 Biomedical Engineering  
- Medical Engineering

**Bachelor**

- Biomedical Engineering

Faculty (Institute)

Form of study

Study duration

Qualification

Biomedical Engineering

full-time

3 years 10 months (4 ed.year)

3439 Specialist in Biomedical Engineering

№ n/n	Subjects	Department	The volume of discipline		Classroom hours								Independent work of students	Control measures and their distribution by semester							Distribution of class hours per week by courses and semesters														
			ECTS Credits	Hours	Total	including						Exams		Final tests	Module control work	Course projects	Coursework	CGW/CW/GW	HCW	Abstracts	2 YEAR														
						according to the curriculum		individual lessons		according to the curriculum											individual lessons		EM-03i (0+10)												
			into account		into account		into account		into account		3 semester				4 semester																				
into account		into account		into account		into account		18 weeks				18 weeks																							
into account		into account		into account		into account		including				including																							
into account		into account		into account		into account		Total				Total																							
into account		into account		into account		into account		Lecture				Lecture																							
into account		into account		into account		into account		Practice				Practice																							
into account		into account		into account		into account		Laboratory				Laboratory																							
into account		into account		into account		into account		Total				Total																							
into account		into account		into account		into account		Lecture				Lecture																							
into account		into account		into account		into account		Practice				Practice																							
into account		into account		into account		into account		Laboratory				Laboratory																							
<b>1. NORMATIVE educational components</b>																																			
<b>1.1. GENERAL TRAINING</b>																																			
1	Foreign Language II. Practical Course of Foreign Language	Department of the English Language of Humanities Orientation № 3	3	90	72									18	4	3									2		2		2						
2	Higher Mathematics III: Series, Basics of Theory of Functions of Complex Variable.	Department of Mathematical Analysis and Probability Theory	6,5	195	126	54			72					69	3	3									7	3	4								
3	Physics II. Optics. Quantum physics	Department of General Physics	5	150	108	46			44			18		42	3	3								6	2,5	2,5	1								
4	Introduction to Philosophy	Department of Philosophy	2	60	36	18			18					24		3	3							2	1	1									
5	Ecological Management	Department of Geoengineering	2	60	36	18			18					24	4	4														2	1	1			
<b>Total number of part 1.1.</b>			<b>18,5</b>	<b>555</b>	<b>378</b>	<b>136</b>			<b>224</b>			<b>18</b>		<b>177</b>	<b>2</b>	<b>3</b>	<b>5</b>							<b>17</b>	<b>6,5</b>	<b>9,5</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>3</b>					
<b>1.2. Professional training</b>																																			
6	Material science and Structural materials	Department of Biomedical Engineering	4,5	135	72	36			36					63	3	3								4	2	2									
7	Quantitative Physiology	Department of Biomedical Engineering	4,5	135	72	28			26			18		63	3	3								4	1,5	1,5	1								
8	Foundations of Discrete Mathematics	Institute of Mathematics, National Academy of Sciences of Ukraine, department of the theory of random processes.	4	120	72	36			36					48	3	3							4	2	2										
9	Electrical Engineering and Electronics	Department of Theoretical Electrical Engineering	6	180	90	36			28			26		90	4	4													5	2	1,5	1,5			
10	Biomaterials and Biocompatibility	Translational medical bioengineering	5	150	72	36			36					78	4	4												4	2	2					
11	Biophysic	Department of Biomedical Engineering	4,5	135	72	36			36					63	4	4												4	2	2					
12	Mechanics	Department of Biomedical Engineering	4,5	135	72	36			36					63	4	4												4	2	2					
13	Object-Oriented Programming	Department of Biomedical Engineering	4,5	135	72	36			36					63	4	4												4	2	2					
<b>Total number of part 1.2.</b>			<b>37,5</b>	<b>1125</b>	<b>594</b>	<b>280</b>			<b>270</b>			<b>44</b>		<b>531</b>	<b>2</b>	<b>6</b>	<b>8</b>							<b>12</b>	<b>5,5</b>	<b>5,5</b>	<b>1</b>	<b>21</b>	<b>10</b>	<b>9,5</b>	<b>1,5</b>				
<b>TOTAL NORMATIVE:</b>			<b>56</b>	<b>1680</b>	<b>972</b>	<b>416</b>			<b>494</b>			<b>62</b>		<b>708</b>	<b>4</b>	<b>9</b>	<b>13</b>							<b>29</b>	<b>12</b>	<b>15</b>	<b>2</b>	<b>25</b>	<b>11</b>	<b>12,5</b>	<b>1,5</b>				
<b>2. SELECTIVE educational components</b>																																			
<b>2.1. General training (Selective educational components from the general University Catalog)</b>																																			
	Subjects	Department	Number of students who chose discipline																																
			B	C																															
14	Psychology GU-1	Department of Psychology and Pedagogy	0	10	2	60	36	18	18					24	3	3											2	1	1						
14	Psychology of Conflict GU-1	Department of Psychology and Pedagogy	0	0	2	60	36	18	18					24	3	3											2	1	1						
14	Psychology of health and healthy lifestyle GU-1	Department of Psychology and Pedagogy	0	0	2	60	36	18	18					24	3	3											2	1	1						
14	Psychology of scientific and technical creativity GU-1	Department of Psychology and Pedagogy	0	0	2	60	36	18	18					24	3	3											2	1	1						

