

**INFORMATION TECHNOLOGY - PART TIME (ENGINEERING STUDIES) rok ak. 2018/2019, profil kształcenia: praktyczny**

No.	COURSE	TYPE OF CLASS AND EXAM	YEAR I							YEAR II							YEAR III							YEAR IV															
			sem I			ECTS	sem II			ECTS	sem III			ECTS	sem IV			ECTS	sem V			ECTS	sem VI			ECTS	sem VII			ECTS									
			L	S	Lab		L	S	Lab		L	S	Lab		L	S	Lab		L	S	Lab		L	S	Lab		L	S	Lab										
<b>OBLIGATORY COURSES:</b>																																							
1	FOREIGN LANGUAGE	C												X			4			X			4																
2	INTRODUCTION TO THE LABOR MARKET	C													X																								
3	OCCUPATIONAL HEALTH AND SAFETY	C	X				0																																
4	PROTECTION OF INTELLECTUAL PROPERTY	E																										X						2					
5	FUNDAMENTALS OF ECONOMICS	E	X				4																																
6	FUNDAMENTALS OF MANAGEMENT	E C	X	X			7																																
7	FUNDAMENTALS OF COMMUNICATIONS	C																							X		X												
8	MATHEMATICS	E C	X	X			12	X	X		X																												
9	DISCRETE MATHEMATICS	C							X		X																												
10	PROBABILITY AND STATISTICS	C											X	X																									
11	IT TOOLS	C									X	X																											
12	FUNDAMENTALS OF INFORMATION TECHNOLOGY AND OFFICE APPLICATIONS	C			X		2																																
13	Fundamentals of programming	E C	X		X		5																																
14	PHYSICS	E C										X		X																									
15	Object-oriented programming	E C						X		X	X																												
16	Web development	C																										X							4				
17	Advanced programming	C														X		X																					
18	Computer architecture	E C																														X		X		3			
19	Operating Systems	E C						X		X	X																												
20	Computer Networks	E C										X		X																									
21	IT Security	E C																																X		X	8		
22	Systems engineering	E C																										X	X							5			
23	Designing IT Systems	E C																		X		X	X																
24	Database engineering	E C										X		X																									
25	Designing User Interfaces	E C																		X		X	X																
26	INTRODUCTION FOR DIPLOMA THESIS	C																		X			X																
27	ELECTRICAL ENGINEERING AND ELECTRONICS	E C														X		X																					
28	ROBOTICS AND AUTOMATION	E C														X		X																					
29	METHODS OF EFFICIENT LEARNING AND CREATING PROJECT WORKS	C			X		2																																
30	Programing languages- case study	Z						X			X					X												X									1		
31	PHYSICAL EDUCATION*	C							X		0																												
<b>SPECIALISATION COURSES: X</b>																																							
1	COMPULSORY SPECIALISATION COURSES (hours per semester depending on specialisation)	E C																		X	X		X	X	X									15	X	X		13	
2	INTERNSHIP	C																																					12
3	DIPLOMA SEMINAR	C																							X		X		X										6
					<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>
					<b>0</b>		<b>32</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>		<b>0</b>
<b>ECTS</b>																																							<b>161</b>

\* OPTIONAL COURSE