



## Subject card

Subject name and code	BSc Diploma Project II, PG_00048817						
Field of study	Informatics, Electronics and Telecommunications, Biomedical Engineering, Biomedical Engineering, Biomedical Engineering, Automatic Control, Cybernetics and Robotics						
Date of commencement of studies	October 2020		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		13.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Multimedia Systems -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Paweł Raczyński				
	Teachers		dr inż. Paweł Raczyński				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	60.0	0.0	60
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	60		13.0		252.0	325
Subject objectives	Preparing the student for the implementation of the diploma project, and then systematically monitoring the progress of his own work on the project, giving him advice, advice and tips. Checking the practical effects of the project work.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U03] can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment	The student is able to design, in accordance with the specifications of the profession of ICT engineer, and make a simple device, object, system, software typical for the field of study or carry out the process, using appropriately selected methods, techniques, tools and materials, using engineering standards and norms, applying appropriate fields of study technologies and using experience gained in the environment professionally involved in engineering activities.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment
	[K6_K01] is ready to cultivate and disseminate models of proper behaviour in and outside the work environment; make independent decisions; critically evaluate actions of their own, teams they lead and organisations they are part of; take responsibility for results of these actions; responsibly perform professional roles, including: n - observing rules of professional ethics and require it from others, n - care for the achievements and traditions of the profession	The diplomat should understand the issues of copyright belonging to the knowledge and technology he uses. He should point to the creative character of his own work, which respects the rights of other people or institutions. If the work is of a group nature, the graduate should demonstrate the awareness of the principles of division of tasks in the group.	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness
	[K6_U08] while identifying and formulating specifications of engineering tasks related to the field of study and solving these tasks, can: n- apply analytical, simulation and experimental methods, n- notice their systemic and non-technical aspects, n- make a preliminary economic assessment of suggested solutions and engineering work n	He knows the tools for CAD type design, Matlab simulation environments, software development environments, text editing and presentation tools. Demonstrates the ability to plan project work, taking into account technical and economic realities.	[SU5] Assessment of ability to present the results of task [SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
	[K6_U11] can plan and organise individual and team work	Is able to plan the project stages, using tools for project planning and monitoring its progress. In the case of team work, he can create and apply to team work schedules, running with the division of tasks between individual contractors.	[SU5] Assessment of ability to present the results of task [SU1] Assessment of task fulfilment
	[K6_U10] can individually plan their own lifelong education, also by means of advanced information and communication technologies (ICT), and communicate with people from their environment, firmly justify their point of view, participate in debates, present, assess and discuss different opinions and points of view, as well as use specialist terminology related to the field of study in communication	Student is able to independently improve his knowledge and skills throughout his life, including using advanced information and communication techniques (ICT) and communicate with the environment, firmly justify his position, take part in the debate, present and evaluate various opinions and positions and discuss about them and also communicate using specialized terminology related to the field of education.	[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU2] Assessment of ability to analyse information
Subject contents	The subject is the student's own work project, under the supervision of a supervisor and consultants.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	frequency of contacting a supervisor and a project consultant	30.0%	30.0%
	progress of project implementation, commitment to own work	70.0%	70.0%
Recommended reading	Basic literature	The literature is indicated to the student implementing the project in accordance with the subject of the project.	
	Supplementary literature	Supplementary literature is indicated to the student implementing the project in accordance with the subject of the project.	
	eResources addresses	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	The main tasks for students implementing the project are to develop a review part based on a literature analysis, formulation of project assumptions and demonstration of progress in construction works, implementations and experiments.
Work placement	Not applicable