



Subject card

Subject name and code	Team Project II, PG_00053514						
Field of study	Informatics, Biomedical Engineering, Biomedical Engineering, Biomedical Engineering, Automatic Control, Cybernetics and Robotics						
Date of commencement of studies	October 2020	Academic year of realisation of subject			2022/2023		
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	3	Language of instruction			Polish		
Semester of study	6	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Computer Communications -> Faculty of Electronics, Telecommunications and Informatics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Sławomir Gajewski					
	Teachers	dr inż. Sławomir Gajewski dr hab. inż. Ewa Wagner-Wysiecka dr Brygida Mielewska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0	0.0	30
	E-learning hours included: 0.0						
Projekt grupowy II (luty 2023) - Moodle ID: 27963 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=27963							
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	30	5.0		15.0		50
Subject objectives	<p>Group project is a class, which goal is to prepare students for a future work in a team of several people and to learn them to fulfil scheduled obligations in a timely manner.</p> <p>Project teams consisting of 3-5 students realize subjects chosen from submitted proposals. A product and a proper technical documentation are the effects of a year-long work on a chosen problem.</p> <p>The project proposals can be submitted by Department partners and a work progress is controlled by supervisors assigned by a faculty coordinator.</p>						

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 given specification, and perform a complex device, object, ICT system or implement the ICT process, using appropriately selected methods, techniques, tools and materials, using engineering standards and norms, using ICT technologies and using experience gained in the environment professionally engaged in engineering activities	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
	[K6_U11] can plan and organise individual and team work	the student understands the role of management in the project, knows and applies the chosen method of managing work in a group, supervising the production of project documentation	[SU1] Assessment of task fulfilment
	[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	The student is able to use both analytical, simulation and experimental methods to carry out an engineering task. The student is able to make a preliminary economic analysis.	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools
	[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 student has the knowledge to develop patterns of proper conduct in the work and life environment, critically evaluate the groups in which he participates and lead the group and the appropriate division of roles and tasks among group members	[SK5] Assessment of ability to solve problems that arise in practice
	[K6_W08] Knows and understands the fundamental dilemmas of modern civilisation and basic economic, legal and other conditions of various types of activities related to the field of study, including the basic concepts and principles in the field of industrial property and copyright protection.	the student has the knowledge to assess the economic and legal possibilities of the project implementation	[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects
Subject contents	<p>The choice of group</p> <p>Implementation of the project group</p> <p>Presentation of the completed project</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	project	50.0%	100.0%
Recommended reading	Basic literature	materials related to the implemented project	
	Supplementary literature	Books on management	
	eResources addresses		

<p>Example issues/ example questions/ tasks being completed</p>	<p>Implementation of OpenFlow controller extensions for control of network with channel switching</p> <p>System for analyzing character movements supporting the rehabilitation process Shining 3D LED cube - disco lighting Intelligent schedule GPS signal repeater Remote parameter measurement system for a super-yacht class vessel. Mobile support system for Special Rescue Groups System supporting the rehabilitation of children with movement disorders using the EMG signal to control the game Mobile robot for the critical infrastructure inspection</p>
<p>Work placement</p>	<p>Not applicable</p>