

SDAŃSK UNIVERSITY 的 OF TECHNOLOGY

Subject card

Subject name and code	Research project I, PG_00054408							
Field of study	Informatics							
Date of commencement of studies	February 2024		Academic year of realisation of subject		2023/2024			
Education level	second-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	1		Language of instruction		Polish	Polish		
Semester of study	1		ECTS credits		4.0			
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Department of Computer Communications -> Faculty of Electronics, Telecommunications and Informatics					Informatics		
Name and surname	Subject supervisor		dr inż. Krzysztof Nowicki					
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Nowicki					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	30.0		0.0	30
	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	30		20.0		50.0		100
Subject objectives	The research project meet obligations resu The immediate goal the research hypothe product, e.g. an appl	ulting from the a of the research esis set by the o	project is to ca	le in a timely m arry out works in purpose, the pr	anner. n which oject ma	the stur	dent or stude	nts will verify nentation of a

Learning outcomes		Course outcome	Subject outcome	Method of verification		
		[K7_U11] can manage team work	the student understands the role of project management, knows and applies the selected method of managing group work, supervising the production of project documentation	[SU1] Assessment of task fulfilment		
		[K7_W09] Knows and understands, to an increased extent, the economic, legal and other conditions of various types of activities related to the given qualification, including the principles of protection of industrial property and copyright.	the student has the knowledge to assess the economic and legal possibilities of project implementation. Is able to analyze data from a research experiment.	[SW1] Assessment of factual knowledge		
		[K7_K01] is ready to create and develop models of proper behaviour in the work and life environment; undertake initiatives; critically evaluate actions of their own, teams and organisations they are part of; lead a group and take responsibility for its actions; responsibly perform professional roles taking into account changing social needs, including:n - developing the achievements of the profession,n- observing and developing rules of professional ethics and acting to comply to these rulesn	the student has the knowledge to develop patterns of proper conduct in the work and living environment, to critically evaluate the groups in which he participates, to lead the group and to properly distribute roles and tasks among group members	[SK5] Assessment of ability to solve problems that arise in practice		
		[K7_W07] Knows and understands, to an increased extent, the general principles of creating and developing forms of individual entrepreneurship.	the student has knowledge of the legal and non-legal aspects of individual entrepreneurship	[SW1] Assessment of factual knowledge		
		[K7_U03] can design, according to required specifications, and make a complex 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 make 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 the experience gained in the environment professionally involved in engineering activities	[SU5] Assessment of ability to present the results of task [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		
Subject contents		The client defines the research problem by entering the content of the project into the "Group and research project service" system. If the Client is a WETI employee, the topic should be of a research nature, i.e. contain a research hypothesis for verification. In the case of an external customer, it is allowed to define an application topic consisting in the production of a prototype / product, e.g. a device / application. Depending on the requirements of the external client, the project may require the implementation of an application solution (e.g. an application, a fragment of code) completed in whole or in part, which can be used in a company, organization, institution (i.e. it has the potential for this, has certain functional features, and not only experimental) and optionally includes research elements.				
Prerequisites and co-requisites						
		The obligatory result of a research project for projects with a research hypothesis is a report in the form of a publication formatted according to the IEEE template, prepared in English. For application projects, a report in the form of a patent application (application) is also allowed.In the case of a report in the form of a publication, the information about the Project Supervisor and his affiliation should be included in the "Acknowledgment" section.Interested Students can prepare, together with the Tutor / ETI staff / other people who participated in the research:1. A scientific publication prepared in accordance with the editorial requirements of the intended place of publication (journal, conference), using a template, e.g. IEEE, Elsevier, Springer etc. Publication follows the procedures of the publishing house. Co-authors contribute creatively to the publication.2. Patent application - depending on the requirements - in Polish or English.The report is required to include such elements as:1. Definition of the problem and research hypothesis.2. A state-of-the-art section summarizing existing solutions / results in the context of the problem under consideration.3. Solution proposal.4. Details of the solution, e.g. algorithm design, implementation, applied optimizations.5. Experiments and research.6. Discussion of the results and verification of the department (including, for example, an application that was used for research, verification of the hypothesis) and if the University and the student express such a will, an agreement is concluded on the transfer of property rights to the results that have been obtained (at the end of the research project).Additional requirements may be formulated for project implementers for an external client.				
Data wydruku:	19.05.2024	07-59		Strona 2 z 3		

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade	
and criteria	project	50.0%	100.0%	
Recommended reading	Basic literature	materials related to the project being implemented		
, i i i i i i i i i i i i i i i i i i i	Supplementary literature	Management books		
	eResources addresses	Adresy na platformie eNauczanie:		
		Zespołowe Projekty Badawcze 2024 - Moodle ID: 38041 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=380		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			