

§ GDAŃSK UNIVERSITY § OF TECHNOLOGY

Subject card

Subject name and code	MSc Diploma Thesis I, PG_00047387								
Field of study	Automatic Control, Cybernetics and Robotics								
Date of commencement of studies	October 2022		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	2		Language of instruction			English			
Semester of study	3		ECTS credits			5.0			
Learning profile	general academic profile		Assessment form		assessment				
Conducting unit	Department of Automatic Control -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		dr inż. Paweł Raczyński dr inż. Paweł Raczyński prof. dr hab. inż. Zdzisław Kowalczuk						
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	0.0		0.0	0	
	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	0		30.0		95.0		125	
Subject objectives	Implementation of the	e diploma							

Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[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 understands the economic and legal conditions of activities related to the qualification, including the principles of industrial property protection and copyright	[SW1] Assessment of factual knowledge				
	[K7_U08] while identifying and formulating engineering tasks specifications 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 workn	The student is able to formulate and solve engineering tasks, use analytical, simulation and experimental methods, see systemic and non-technical aspects, make an economic assessment of the proposed solutions	[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				
	[K7_K03] is ready to meet social obligations, inspire and organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way	The student is able to fulfill social obligations and act for the social environment and public interest	[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work				
	[K7_U10] can individually plan and pursuit their own lifelong education and influence others in this aspect, also by means of advanced information and communication technologies (ICT), and communicate on specialist issues with diverse recipients, appropriately justify points of view, hold 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	The student is able to plan and implement their own education, use advanced information and communication techniques (ICT) and communicate with diverse audiences, organize a debate, present and evaluate various opinions, and communicate using specialized terminology	[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				
	[K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems	The student critically assesses the received content and the importance of knowledge in solving cognitive and practical problems	[SK5] Assessment of ability to solve problems that arise in practice				
Subject contents	Realization of the project set by the thesis supervisor						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Substantive project	50.0%	60.0%				
	Formal project	50.0%	40.0%				
Recommended reading	Basic literature	W.L. Brogan: Modern control theory, Prentice Hall, Englewood Cliffs, 1974. K.J. Astrom, B Wittenmark: Computer-controlled systems. Prentice Hall, Upper Saddle River, 1997 B.C. Kuo: Automatic Control Systems. Prentice-Hall, Englewood Cliffs 1987					
	Supplementary literature	J. Korbicz, J.M. Kościelny, Z. Kowalczuk, W. Cholewa, Fault Diagnosis. Models, Artificial Intelligence, Applications, Springer Verlag [ISBN 3-540-40767-7], Berlin, Heidelberg, New York, Hong Kong, London, Milan, Paris, Tokyo 2004					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable	Not applicable					