

Subject card

Subject name and code	BSc Diploma Project I, PG_00047943							
Field of study	Automatic Control, Cybernetics and Robotics							
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026			
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 Decision Systems and Robotics -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		prof. dr hab. inż. Zdzisław Kowalczuk					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
of instruction	Number of study hours	0.0	0.0	0.0	30.0		0.0	30
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	nours Learning activity Participation in dic classes included in plan				Self-study		SUM	
	Number of study hours	30		2.0		18.0		50
Subject objectives	Implementation of the diploma							

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Learning outcomes Course outcome		Subject outcome	Method of verification		
	[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 professionn	The student is ready to disseminate patterns of proper behavior in the environment, make decisions, critically evaluate (teams he manages or participates in), accept responsibility, perform professional roles, adhere to the principles of professional ethics and care for the achievements and traditions of the profession	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills		
	[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 ready to fulfill social obligations, co-organize environmental activities, initiate actions for the benefit of society, as well as entrepreneurial thinking and action.	[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		
	[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 analytical, simulation and experimental methods, see their system and non-technical aspects, and make a preliminary economic assessment of the proposed solutions and undertaken engineering activities	[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_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	The student is able to plan learning, based on advanced information techniques and communicate with the environment, justify his position, present and evaluate opinions and positions, and communicate using professional terminology.	[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 is able to plan and organize individual work and team work	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
Subject contents	Implementation of the diploma				
Prerequisites and co-requisites	Completing the subjects of the previous semester				
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	completed diploma	50.0%	100.0%		
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 			
		B.C. Kuo: Automatic Control Systems. Prentice-Hall, Englewood Cliffs 1987			

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	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
		B.D.O. Andersson, J.B. Moore: Optimal Filtrering, Prentice Hall, Englewood Cliffs 1979
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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