



Subject card

Subject name and code	, PG_00065676						
Field of study	Mechanical Engineering						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		6.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Institute of Manufacturing and Materials Technology -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Bogdan Ścibiorski				
	Teachers		dr inż. Bogdan Ścibiorski				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	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		100.0	150
Subject objectives	To refine skills in comprehensive automotive project management, encompassing planning, resource and risk management, the implementation of innovative solutions, and the consideration of legal and financial conditions specific to the industry.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_K04] is able to establish professional contacts and is able to lead and work in a team assuming various roles in the team; is able to show resourcefulness and innovation when realizing professional projects	Independently identifies key project stakeholders, establishes professional relationships, and develops communication strategies tailored to the specifics of the automotive industry. Employs entrepreneurial and innovative thinking by proposing unconventional solutions to project challenges (e.g., cost optimization, new methods for organizing work).	[SK5] Assessment of ability to solve problems that arise in practice
	[K7_K81] is able to cooperate in international team at her/his own university, during work placement and during study abroad	Manages projects alongside team members from different countries, adapting work style and communication to multicultural settings (e.g., during workshops, conferences, or joint research initiatives). Demonstrates readiness to engage in cross-border collaboration (e.g., through exchange programs, partnership projects), thereby broadening perspectives on project management in the automotive industry.	[SK5] Assessment of ability to solve problems that arise in practice
	[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	Uses aspects of law and economics (e.g., public procurement legislation, cost-benefit analyses) to address specific project-related issues (e.g., supplier selection, contract negotiations). Considers social and cultural factors when planning projects (e.g., tailoring communication methods to stakeholders with diverse cultural backgrounds).	[SU3] Assessment of ability to use knowledge gained from the subject
	[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	Understands basic economic mechanisms and legal regulations impacting project management in the automotive sector (e.g., budgeting, homologation requirements). Is able to recognize and interpret social and cultural factors that influence decision-making in project processes, especially in international contexts.	[SW3] Assessment of knowledge contained in written work and projects
Subject contents	The course provides an introduction to project management in the automotive industry, covering all stages of project development from concept through to production. It will discuss project management tools such as Gantt charts and project planning software (e.g., MS Project). Special emphasis will be placed on risk management and decision-making under uncertainty, taking into account the specific characteristics of automotive projects. The course will also address aspects related to cost management, budgeting, and resource allocation. Case studies will focus on managing the development of a new car model, supply chain challenges, or product recalls.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Discussion	60.0%	50.0%
	Written documents (e.g., reports, presentations) documenting the results of analyses, simulations, and conclusions.	60.0%	50.0%
Recommended reading	Basic literature	<p>Kenneth S. Rubin <i>Essential Scrum: A Practical Guide to the Most Popular Agile Process</i> Wydawnictwo: Addison-Wesley, 2012</p> <p>Jeff Sutherland <i>Scrum: The Art of Doing Twice the Work in Half the Time</i> Wydawnictwo: Crown Business, 2014</p> <p>Mike Cohn <i>Agile Estimating and Planning</i> Wydawnictwo: Addison-Wesley, 2005</p>	

	Supplementary literature	Clifford F. Gray, Erik W. Larson <i>Project Management: The Managerial Process</i> Wydawnictwo: McGraw-Hill Education, 2020
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Planning and scheduling in automotive projects 2. Risk and uncertainty management in the automotive industry 3. Using IT tools (e.g., MS Project, GanttProject) for task coordination 4. Project organization models: traditional, Agile, hybrid 5. Resource management in a project (human, material, financial) 6. Innovation and entrepreneurship strategies in automotive projects 7. Quality control and standard assurance in the production process 8. Supply chain and logistics management in the automotive sector 9. Communication and negotiations with stakeholders in the automotive sector 	
Work placement	Not applicable	

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