



Subject card

Subject name and code	Effective Project Management, PG_00045582						
Field of study	Mechanical Engineering						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2023/2024		
Education level	first-cycle studies		Subject group				
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		1.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Manufacturing and Production Engineering -> Faculty of Mechanical Engineering and Ship Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Aleksandra Wiśniewska				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
	Address on the e-learning platform: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=6979						
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	15		0.0		0.0	15
Subject objectives	The aim of the course is to familiarize students with modern methods of effective project management, to present principles, methods and tools supporting decision-making and control processes with particular emphasis on individualized approach to the specifics of the project and its surroundings.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W12		The student recognizes the constants and project variables and can define their mutual relations and impact on the project.		[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
	[K6_K02] understands ex-technical aspects of the activities included in the profession of a mechanical engineer, among others its social impact and influence on the condition of an environment; is aware of the responsibility connected with the decisions made in connection with engineering activity		The student uses knowledge obtained under different modules to be assessed non-technical effects engineering activities i adopts attitudes responsible.		[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work		
	[K6_K01] is aware of the need for complementing the knowledge throughout the whole life, is able to select proper methods of teaching and learning, critically assesses the possessed knowledge; is aware of the importance of professional conduct and following the rules of professional ethics; is able to show resourcefulness and innovation in the realisation of professional projects		The student defines the rules managing people in systems quality. The student knows and can apply the principles of leadership and motivating. The student understands need to update owned knowledge and can identify and use sources of knowledge. The student knows the rules of Improvement Continuing and benefits flowing from skillful use of resource potential human in terms of creativity and innovation.		[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work		

Subject contents	1. Traditional Project Management vs. Modern Project Management.		
	2. Project Activities - estimating duration, resource requirements and cost.		
	3. Work Breakdown Structure and Project Network Diagram.		
	4. Earned Value Method System - monitoring and controlling progress and budget.		
	5. Managing the Project Team.		
	6. Closing Out the Projects.		
	7. Adaptive Project Framework.		
	8. Organizational Considerations.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Colloquium	60.0%	100.0%
Recommended reading	Basic literature	1. Effective Project Management; Robert Wysocki, Rudd McGary; Wiley Publishing; 2003 Canada; ISBN: 0-471-43221-0	
		2. Project Management Body of Knowledge (PMBOK); Project Management Institute; ISBN13:9781628253825	
	Supplementary literature	1. Lockyer K. and Gordon J., Project management and project network techniques, Financial Times Prentice Hall, 7th edition, 2005, ISBN 0-273-69378-6.	
		2 Burke R., Project management: planning and control techniques, John Wiley & Sons, 4th edition, 2003, ISBN 0470851244.	
		3. Kerzner H., Project management: A systems approach to planning, scheduling and controlling, John Wiley & Sons, 8th edition, 2003, ISBN 0-471-22577-0.	
		4. Gray C.E. and Larson E.W., Project management: the managerial process, McGraw- Hill, 3rd edition, 2006, ISBN 007-124446	
		5. Meredith J.R. and Jr. Mantel S.J., Project management: a managerial approach, John Wiley & Sons, 5th edition, 2003, ISBN 0-471-07323-7.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Work Breakdown Structure		
	Critical Path Method		
	Value Earned Method		
	Teamwork		
	Risk Management		

Work placement	Not applicable
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