



## Subject card

Subject name and code	Maintenance management, PG_00055241						
Field of study	Management and Production Engineering						
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	5		ECTS credits		1.0		
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. Sławomir Szymański				
	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						
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		2.0		8.0	25
Subject objectives	Acquiring knowledge in the field of operation logistics, machines and production systems Understanding the principles of selecting machines in terms of durability, reliability and requirements related to technical service Mastering the skills of organizing a material management system in operation logistics Ability to plan maintenance and repair works and their material protection						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W11] knows and understands the basic concepts and principles of the protection of industrial property and copyright law, can use the resources of patent information		The student knows the machine park care systems - classic, TPM (Comprehensive maintenance, RCM - Reliability Centered Maintenance		[SW1] Assessment of factual knowledge		
	[K6_K02] is able to interact and work in a group, assuming different roles, can inspire and organize the learning process of others, properly identifies priorities for realization of a task specified by themselves or others		Mastering the ability to organize the material management system in operation logistics. The ability to plan maintenance and repair works and their material protection		[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	1. Basic concepts, introduction to the area of operation logistics. 2. Factors for the selection of machines and devices. Movement documentation of machines. 3. Types and characteristics of maintenance and repair works. 4. Machine park care systems - classic, TPM Total ProductiveMaintenance (Comprehensive Productivity-oriented Maintenance). RCM -Reliability Centered Maintenance. 5. Division of work in operational logistics. Material management of operation logistics						
Prerequisites and co-requisites	knowledge of production management methods						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	test		60.0%		100.0%		

Recommended reading	Basic literature	<p>1. Legutko S. Eksploatacja maszyn Wydawnictwo Politechniki Poznańskiej Poznań 2007.</p> <p>2. Lis. S. Organizacja i ekonomika procesów produkcyjnych w przemyśle maszynowym PWN Warszawa 1984</p>
	Supplementary literature	1. J. Wrotkowski Gospodarka remontowa pojęcia i zasady ogólne, PWN Warszawa 1991
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>1. Present methods of assessing the condition of machines and production devices</p> <p>2. Schedule of repairs on production lines operating in a continuous system</p> <p>3. Present how to manage materials management in the logistics of machine operation</p>	
Work placement	Not applicable	