



Subject card

Subject name and code	Transport asset management, PG_00062423						
Field of study	Transport						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2023/2024		
Education level	second-cycle studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		Polish		
Semester of study	1		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Wojciech Kustra				
	Teachers		dr hab. inż. Kazimierz Jamroz mgr inż. Tomasz Mackun				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	15.0	0.0	0.0	45
	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	45		10.0		20.0	75
Subject objectives	The aim of the course is to familiarise students with: general principles of transport asset (resource) management, detailed principles of TAM transport asset (resource) management, detailed principles of RAM road asset (resource) management, examples and practical aspects of asset management, RAM planning and implementation process.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_W02] explains the importance and interdependence of key components describing transport systems and processes and their environment, using in-depth knowledge in accordance with the main trends in the development of scientific disciplines related to the field of study	The student has an in-depth and structured knowledge of the principles, planning, implementation and use of asset management methods in transport.	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge
	[K7_U02] presents logical and solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation	The student has an in-depth and structured knowledge of the principles, planning, implementation and use of asset management methods in transport.	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment
	[K7_U06] develops their potential using their own initiative and experience, taking personal responsibility for striving to achieve their goals and increasing opportunities for personal development as well as those of their colleagues	The student has an in-depth and structured knowledge of the principles, planning, implementation and use of asset management methods in transport.	[SU5] Assessment of ability to present the results of task [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment
[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values	The student has an in-depth and structured knowledge of the principles, planning, implementation and use of asset management methods in transport.	[SK5] Assessment of ability to solve problems that arise in practice [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills	
Subject contents	Lecture/ Practical/laboratory: Definitions of resources (assets), resource management, transport resource (asset) management. Principles, planning, implementation, use, monitoring and improvement of multi-faceted transport resource (asset) management systems with particular emphasis on road transport (RAM).		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Zaliczenie	80.0%	30.0%
	Zaliczenie	80.0%	30.0%
	Zaliczenie	80.0%	40.0%

Recommended reading	Basic literature	<p>[1]. Road Asset Management Webinar IRF, New York 2020 (IRF 2020)</p> <p>[2]. ISO 55000:2014 Asset management - Overview, principles and terminology</p> <p>[3]. Zofka A.: Proaktywna strategia zarządzania elementami infrastruktury drogowej. IBDM, Warszawa 2019 (Zofka 2019)</p> <p>[4]. Guide to Asset Management (GAM), Austroads, ISBN 978-1-925671-40-7, Sydney 2018</p> <p>[5]. CEDR: Implementation Guide For An Iso 55001 Asset Management System. A Practical Approach For The Roads Sector In Europe. CEDR 2017</p> <p>[6]. ITF: Policies to Extend the Life of Road Assets. International Transport Forum. Paris Cedex, Research Report 2018.</p> <p>[7]. ERF: Road Asset Management. An erf position paper for maintaining and improving a Sustainable and efficient road network. European Road Federation. Brussels 2014.</p> <p>[8]. Haas R., Hudson R. W. Pavement Asset Management. ISBN 978-1-119-03870-2. Canada 2015</p> <p>[9]. Generalna Dyrekcja Dróg Krajowych i Autostrad. Diagnostyka stanu nawierzchni i wybranych elementów otoczenia drogi Wytyczne stosowania. Warszawa, maj 2019</p> <p>[10]. Haas R., Hudson W.R., Zaniewski J.: Modern Pavement Management, Krieger Publishing Company, Malabar, Florida 1994</p>
	Supplementary literature	<p>[1]. PN-ISO 55000:2017-09 Zarządzanie aktywami Informacje ogólne, zasady i terminologia</p> <p>[2]. PN-ISO 55001:2017-08 Zarządzanie aktywami Systemy zarządzania Wymagania</p> <p>[3]. PN-ISO 55002:2017-10 Zarządzanie aktywami Systemy zarządzania Wytyczne dotyczące stosowania ISO 55001</p>
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	Building a database of road resources.Evaluation of the existing transport system in a selected province.	
Work placement	Not applicable	

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