GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Roads and Streets, PG_00059956		
Field of study	Environmental Engineering		
Date of commencement of studies	February 2024	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Obligatory subject group 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	2	ECTS credits	2.0
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. Łukasz Mejłun	
	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	15.0	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	5.0	20.0	55

Subject objectives

The aim of the course is to familiarize students with the type and division of road pavements, materials used in road structures, their construction, and with the design of horizontal and vertical geometry of roads and streets, as well as with normal cross-sections.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_U01] can obtain information from literature, databases and other sources; can integrate the obtained information, interpret and critically evaluate them, draw conclusions, and formulate and comprehesively justify the opinions	The student is able to obtain the necessary information from literature, standards and guidelines, select it and use it in practice.	[SU1] Assessment of task fulfilment [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
[K7_W02] has broadened and well-ordered knowledge of the current law on construction, water, environmental protection and planning and spatial planning.	The student is able to obtain the necessary information from standards and guidelines, select it and use it in practice.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects
K7_W05	The student has basic knowledge of road pavements, their types, construction, materials used and their properties, as well as the horizontal, vertical geometry and the cross-section of roads.	[SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects

Subject contents	1. Types of roads. 2. Types of road pavements. 3. Road pavement structures. 4. Materials in road pavement structures. 5. The road in the horizontal plan. 6. Road in a longitudinal profile. 7. The road in cross-sections.
Prerequisites and co-requisites	

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
lecture - test	50.0%	66.0%
design - project	50.0%	34.0%

Recommended reading

Basic literature	1.Z. Wiłun Zarys geotechniki WKŁ 2.R. Edel Odwodnienie dróg WKŁ 3.K. Błażejowski, S. Styk Technologia warstw bitumicznych WKŁ 4.J. Piłat, P. Radziszewski Nawierzchnie asfaltowe WKŁ 5.A. Szydło Nawierzchnie drogowe z betonu cementowego Polski Cement 6.Katalog Typowych Konstrukcji Nawierzchni Podatnych i Półsztywnych. 2014. PG, GDDKiA. 7.Katalog Typowych Konstrukcji Nawierzchni Sztywnych. 2014. PWr, GDDKiA. 8. Wytyczne Techniczne do projektowania dróg WR-D
Supplementary literature	Lecture and design presentations prepared by the course coordinator (teacher).
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed	1. List the types of road pavements depending on the material of the wearing course.2. On what basis is the radius of a horizontal curve selected?3. What are the methods of road pavement drainage?4. In which pavement layers can recycled materials be used?
Work placement	Not applicable