SYLLABUS

Course title: Transportation Infrastructure

Course title (in Polish): Infrastruktura transportowa

The syllabus is valid since the summer semester of the academic year 2025/26 and its content is not subject to changes during the semester.

Course details:

Unit offering the course: Faculty of Civil Engineering

Course designated for the unit: The Silesian University of Technology

Specialization: Structural Engineering

Didactic cycle: Summer semester 2025/2026 - the first year of second degree studies

Coordinator of the course: PhD Bartłomiej Grzesik

Delivery mode: in-person

Number of ECTS credits: 3

Language:
English
Course homepage:
https://platforma.polsl.pl/rb/enrol/index.php?id=689
Prerequisites:
Surveying, Engineering Geology and Soil Mechanics, Building Materials
Short description:
Basic information concerning designing, building and maintenance of transport infrastructure. Basic Knowledge of Roads and Rails.
Description:
LECTURES: 30 hours **PRACTICAL CLASSES:** 0 hours **PROJECT:** 15 hours
Bibliography:
1. Cope G.H. "British railway track, Design, construction and maintenance." 2. Dz. U. nr 43 z 02.03.1999r poz. 430 w sprawie warunków technicznych, jakim powinny odpowiadać drogi publiczne i ich usytuowanie. 3. Dziennik Ustaw nr 151 z 1988 roku. Rozporządzenie Ministra Transportu i Gopspodarki Morskiej w sprawie warunków technicznych jakim powinny odpowiadać budowle kolejowe i ich usytuowanie.
Learning outcomes:
KNOWLEDGE

1. Knows and understands the standards and design guidelines for selected structures in general and industrial construction, as well as for transport infrastructure facilities, including road and rail systems [K1A_W06]

SKILLS
1. Knows how to create simple estimate and timetable of construction works. [K1A_U12]

Assessment methods and assessment criteria:

Requirements for passing the course:

1. Attendance (may be monitored).
2. Defense of the completed project.
3. Receiving a passing grade for the project.
4. Passing the final test.

The final grade for the course is based on the grade obtained in the project classes and final test: **Final grade = 0.5 × project grade + 0.5 x final test grade.**

To have the grades transferred, the student should contact the instructor within the first two weeks of the semester.

This syllabus takes effect starting from the summer semester of the 2025/2026 academic year, and its content will not be subject to change during the semester.

Description of the ECTS calculation method:

Type of activity	Number of hours
Number of class hours, regardless of the delivery mode	30
Student's individual work 1* - *literature review*	10
Student's individual work 2* - *consultations and project defence*	10
Student's individual work 3* - *preparation of projects*	30
Student's individual work 4* - *preparation for a test*	10
Other**	-
Total hours	**90**
Number of ECTS credits assigned to the course	**3**

Legend:

* - Student's individual work – specify the forms of activity, e.g. *preparation for classes, data interpretation, class report writing, preparation for an exam, literature review, preparation of a project, presentation development, written work, report, etc.*

** – other, e.g., *additional contact hours*