

Title Transport infrastructure	Code 1010101141010120040
Field Civil Engineering First-cycle Studies	Year / Semester 2 / 4
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: 2	Number of credits 3
	Language polish

Lecturer:

-PhD Hab. Eng. Łucjan Siewczyński, Profesor

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Status of the course in the study program:

-Core course for students of all specialisations of Civil Engineering

Assumptions and objectives of the course:

-Basic knowledge concerning design of transport infrastructure (roads and bridges). Ability for road design for a preliminary study.

Contents of the course (course description):

-Basic characteristics of transport infrastructure construction: Characteristics of linear structures and their classification; basics of road (both car and rail) design in plane and in profile; road structure; standard cross-sections; bridges, viaducts, culverts, flyovers; railway block posts; elementary information about traffic engineering, traffic management and public transport.

Project, rail part: design of a railway line concerning design of the route in plane and in profile.

Project, car part:

Project, bridge part:

Introductory courses and the required pre-knowledge:

-Basic knowledge of mathematic, physics, descriptive geometry, and building mechanics.

Courses form and teaching methods:

-Lectures illustrated with transparencies, design courses.

Form and terms of complete the course - requirements and assessment methods:

-Written test, realisation and defence of a project.

Basic Bibliography:

Additional Bibliography: