

Title (Budownictwo komunikacyjne II)	Code 1010124161010120082
Field Civil Engineering Extramural First-cycle Studies	Year / Semester 3 / 6
Specialty Transportation Engineering	Course core
Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: 14	Number of credits 5
	Language polish

Lecturer:

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Faculty:

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Status of the course in the study program:

Speciality course.

Assumptions and objectives of the course:

The aim of the subject is presentation of selected problems of bridge design and building.

Contents of the course (course description):

Definition and terminology of bridge building. Structural parts of bridge structures: spans, supports, fittings. Classifications of bridges. Dimensions of bridges. Transportation requirements concerning bridges, clearances. Structural systems of concrete, steel and composite bridges. Loads, static-strength computations of bridges. Bridge erection methods.

Introductory courses and the required pre-knowledge:

Structural mechanics, Strength of materials

Courses form and teaching methods:

Lecture, design exercises.

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

Lecture: written colloquium.

Design exercises: submission of correctly completed exercise.

Basic Bibliography:

1. Madaj A., Wołowicki W., Podstawy projektowania budowli mostowych WKŁ Warszawa 2007
2. Czudek H., Radomski W., Podstawy mostownictwa PWN Warszawa 1974
3. PN-EN 1997-1 Eurokod 7: Projektowanie geotechniczne. Część 1: Zasady ogólne
4. PN-EN 1991-2 Eurokod 1: Oddziaływania na konstrukcje. Część 2: Obciążenia ruchome mostów

Additional Bibliography:

1. Katalog detali mostowych, GDDP Wydział mostów, Warszawa 2002