

Title CONCRETE BRIDGES	Code 1010101151010120485
Field Civil Engineering First-cycle Studies	Year / Semester 3 / 5
Specialty Bridges and Underground Engineering	Course core
Hours Lectures: 2 Classes: 1 Laboratory: - Projects / seminars: 1	Number of credits 5
Language polish	

Lecturer:

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Status of the course in the study program:

Specialization course

Assumptions and objectives of the course:

Getting knowledge on structural forms, shaping and building technology of concrete bridge structures

Contents of the course (course description):

Concrete and steel used for bridge building ? general characteristics. Basics of bridge shaping. Cross-section forms and principals of shaping cross-section of railway and road bridges. Structural forms of concrete bridges (beam bridges, thrust bridges, suspension bridges. Supports of concrete bridges. Methods of building of concrete bridges. Computational models of bridges (slab bridges, beam bridges, thrust bridges, suspension bridges). Deck slabs.

Introductory courses and the required pre-knowledge:

Basic information about concrete, knowledge on bridge building basics, parts of bridges, loads on bridges

Courses form and teaching methods:

Lecture, design exercises, auditorium exercises

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

Lecture: written exam
Auditorium: exercises: colloquium
Design exercises: submission of correctly completed exercise and oral check of knowledge in concern.

Basic Bibliography:

Additional Bibliography: