

Title (Concrete Structures)	Code 1010102121010100239
Field Civil Engineering II stopień	Year / Semester 1 / 2
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: 2	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

-The obligatory course for students of the 2nd degree Faculty of Civil and Environmental Engineering

Assumptions and objectives of the course:

-The aim of the subject is to teach students how to dimension two-way slabs, thin-walls structures and prestressed structures.

Contents of the course (course description):

- Lectures and project:
- thin-walled structures,
- prestressed structures (pre-tensioning, post-tensioning),
- floors with particular consideration for two-way slabs,
- modelling of structures by the ROBOT program,
- design of two-way slab supported on spatial frame.

Introductory courses and the required pre-knowledge:

-Basic knowledge of general mechanics, strength of materials and dimension RC elements working in different way (the 1st degree of Faculty of Civil and Environmental Engineering)

Courses form and teaching methods:

- Lectures - multimedia presentation
- Project - calculation of RC and prestressed beams (ULS and SLS), calculation of two-way slabs, modelling by the ROBOT program

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

- Examination - written form
- Project - estimation of design on the basis of calculations and structural drawings, and test.

Basic Bibliography:

Additional Bibliography:

