

Title (Budownictwo przemysłowe)	Code 1010102121010110504
Field Civil Engineering Second-cycle Studies	Year / Semester 1 / 2
Specialty Bridges and Underground Engineering	Course core
Hours Lectures: 1 Classes: - Laboratory: - Projects / seminars: 2	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Fundamentals of industrial construction

Assumptions and objectives of the course:

The aim of the course is to provide theoretical and practical problems associated with industrial facilities, the development, calculation, design, technology implementation and operation of specific features.

Contents of the course (course description):

Charges and influence technology in the construction industry. Types of industrial cranes and their impact. The design and calculation crane substructure beams. Shaping the industrial halls. Construction of industrial chimneys (brick, reinforced concrete, steel). Calculation of brick and reinforced concrete chimneys. Underground and above-ground intake chimney?s channels. Reinforced concrete and steel belt conveyor galleries. Shaping the structure and calculation of the conveyor belt substructure. Methods of conducting pipelines - unducted, industrial channels in terrestrial, above-ground (for poles, pipe trestles, bridges, self bearing). Supporting construction of pipelines. Basics of forming the basis for machine based directly on the ground. Vibration isolation in the foundations of the machine.

Introductory courses and the required pre-knowledge:

The basic message of the strength of materials, mechanics, reinforced concrete structures, steel, and brick structures, foundation of building.

Courses form and teaching methods:

The lecture illustrated with slides, exercises design.

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

Final exam
Project od industrial object

Basic Bibliography:

Additional Bibliography:

