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Title (Konstrukcje metalowe II)					Code 1010101151010110451	
Field Civil Engineering First-cycle Studies					Year / Semester 3 / 5	
Specialty Structural Engineering					Course	core
Hours					Number of credits	
Lectures: 1	Classes: -	Laboratory: -	Projects / seminars:	2		3
			-		Language	
					polish	

Lecturer:

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Status of the course in the study program:

-Metal Structures

Assumptions and objectives of the course:

Purpose of faculty is presentation of basic methods of design and dimensioning of steel construction elements and introduction of compressed, tensioned (truss, bracing) and bent bars (purlin).

Contents of the course (course description):

According to faculty performed are:

- general rules of design and dimensioning steel construction (limiting condition, static diagram, calculate assumption, resistance hypothesis,
- basic information about method of design and dimensioning of compressed, tensioned, bent, eccentrically compressed and tensioned steel bars.
- question of loosing local stability of compressed bars and bent bars and global stability of compressed bars,
- rules of design and dimensioning trusses and elements of roofs construction (purlin, bracing), design of knots in truss construction,
- question of anticorrosive and fire protection.

Introductory courses and the required pre-knowledge:

Basic knowledge about structure mechanic and strength of material and information presented in previous term of Metal Structures.

Courses form and teaching methods:

Lectures illustrated by slides. Exercise design of steel truss with elements of roof construction. concrete floor. Presentation of construction solution and dimensioning rules.

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

Grade of project of truss with defense.

Basic Bibliography:

Additional Bibliography: