

Title Basics of Engineering Construction (Pods. konstrukcji inż.)	Code 1010401241010640703
Field TECHNICAL PHYSICS	Year / Semester 2 / 4
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: - Projects / seminars: 1	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Core course of the study for Technical Physics, Faculty of Technical Physics.

Assumptions and objectives of the course:

Getting the student acquainted with general problems of mechanical constructions, particularly focusing on construction elements used in subassemblies and assemblies of machine. Getting students to acquire computer skills in the process of solving technical problems.

Contents of the course (course description):

Construction and its features. Solving construction task (designing, constructing, conceptual work). Construction calculations. Connections. Feasible elements. Drives and elements of drives. Axles, shafts and gears. Assemblies, subassemblies, elements of typical constructions. CAD.

Introductory courses and the required pre-knowledge:

Description of constructions, general mechanics, strength of materials, materials science, technology subjects, computer techniques.

Courses form and teaching methods:

Lecture, overhead projector transparencies, models of construction elements, tutorials during the process of executing the project.

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

Written assessment of lectures, assessment of the project.

Basic Bibliography:

1. J.Dietrych, S.Kocańda, W.Korewa, Basics Of Machine Design , tom I,II,III, WNT, W-wa.
2. Michael F.Ashby, Materiale Selection In Mechanical Design, WNT, W-wa 1998.
3. Z.Osiński, T.Szucki, W.Bajon, Basics Of Machine Design , PWN, W-wa 1986.
4. Collection of Polish Norm and ISO.

Additional Bibliography:

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