

Title Advanced investigations of mechanical proprieties	Code 10102521210102102614
Field Material Engineering	Year / Semester 1 / 2
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 2
	Language polish

Lecturer:

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Status of the course in the study program:

- Obligatory

Assumptions and objectives of the course:

- Students should get to know the advanced methods of the investigations of the propriety of mechanical materials.

Contents of the course (course description):

- Tensile test machines. Grips. Extensometers. Bend testing.
Creep and stress-relaxation testing.
Low cycle and high cycle fatigue.
Biaxial testing.
High strain rate testing.

Introductory courses and the required pre-knowledge:

- Strength of the material from 1st cycle studies.

Courses form and teaching methods:

- Lectures, laboratory

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

- Written reports, the colloquium

Basic Bibliography:

Additional Bibliography: