Title	Code
Engineering Mechanics	**10102543310102101660**
Field: **Mechatronics**	Year / Semester: **2 / 3**
Specialty: **-**	Course: **core**
Hours: Lectures: **1** Classes: **16** Laboratory: **-** Projects / seminars: **-**	Number of credits: **5**
	Language: **polish**

Lecturer:

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Status of the course in the study program:

- Core course at the Mechanical Engineering and Management Faculty to first degree studies

Assumptions and objectives of the course:

- The student should obtain knowledge of theoretical fundamentals and practice for solution of basic fluid mechanics problems.

Contents of the course (course description):

- Vector and scalar components of a vector. Moment of a force about a point and about an axis. Free body diagrams. Analysis of equilibrium problems for a concurrent force system and arbitrary force systems. Resultant of concurrent system. Couple of forces. Calculation of plane trusses. Static with presence of friction forces. Centroids and mass center.

Introductory courses and the required pre-knowledge:

- Basic knowledge of differential calculus and vector algebra.

Courses form and teaching methods:

- Lectures and practical lectures

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

- Written test from lectures and practical lectures

Basic Bibliography:

Additional Bibliography: