

Title Mechanics	Code 10102513310102102391
Field Mechatronics	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 1 Classes: 1 Laboratory: 1 Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

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Faculty:

Faculty of Mechanical Engineering and Management
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Status of the course in the study program:

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

Assumptions and objectives of the course:

- Ability to mechanical description of motion of material objects and constructions.
Preparation to design of complex material systems.

Contents of the course (course description):

- Dynamical reactions. Vibrations of systems of one degree of freedom.
Elements of analytical mechanics. The principle of virtual work.
The Lagrange equations of the 2nd kind.

Introductory courses and the required pre-knowledge:

- Basic knowledge of differential calculus, vector and matrix algebra.

Courses form and teaching methods:

- Lectures illustrated by computer animations of constructions, classes, exam..

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

- Written tests.

Basic Bibliography:

Additional Bibliography: