

Title Fluid Mechanics	Code 10102542410102101525
Field Mechanical Engineering and Management	Year / Semester 2 / 4
Specialty -	Course core
Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: -	Number of credits 3
	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, field of study ?
Mechanical Engineering and Management.

Assumptions and objectives of the course:

- Ability to apply the knowledge of fluid mechanics in engineering problems.

Contents of the course (course description):

- Basic concepts. Properties of fluid, density, viscosity, elasticity etc.
Statics, hydrostatic forces on submerged surfaces, buoyancy and stability.
Fluid kinematics. Dynamics of ideal fluids, Bernoulli equation.
Flow in pipes. Flow over bodies, drag and lift. Open-channel flow.

Introductory courses and the required pre-knowledge:

- Basic knowledge of theoretical mechanics, mathematics and physics.

Courses form and teaching methods:

- Lectures illustrated by multimedia.

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

- Test exam.

Basic Bibliography:

Additional Bibliography: