Course - title:	Physics I		Kod:	O131
Course - type:	1			
Course of studies:				
Level:				
Type of studies:	full-time			
Type of course:	Lectures 30 hours			
	Michał Marzantowicz, dr inż. ;			
Lecturer:	Wojciech Wróbel, dr inż.			
Brief conspectus:				
Lecture:	 Introduction; physical quantities, SI units, of magnitude Motion along a straight line and in two or Newton's laws of motion. Momentum and Gravitational and elastic potential energy. Rotation of rigid bodies. Relating linear ar motion, conservation of angular momentum. Hydrostatics; density and pressure. Pasc: Hydrodynamics; fluid flow, continuity equ turbulence, dynamic resistance and coefficie Thermodynamics; Kinetic theory of gase processes. Equations of state. Heat engines. Heat transfer, thermal resistance. Thermatical contents and the state of the stat	ree dimentions. Displacement, mpulse. Work and energy. Defin (inetic energy. Conservation of e angular kinematics. Energy in epler's laws of planetary motion 's law, hydraulic systems. Buoya ion and Bernoulli's equation. Th of resistance, the Magnus effec Temperature, heat, laws of the Entropy.	distance, velocity, ar nition and calculatior energy and momentu rotational motion. Dy ancy. e properties of real f st.	cceleration. n of work. um in mechanics. ynamics of rotational luids - viscosity and