

Mechanics

Unit Title	Mechanics		
Level of Study	Undergraduate, introductory course		
Credit Value		ECTS Value	5
Home Department	General physics department		
Home Faculty	Physical faculty		
Unit Co-ordinator	Konstantin Gavrilov		
Key Words	Skills development, Reflection, Applied research		
Brief Summary	This first course in the physics curriculum introduces classical mechanics. It gives a set of core concepts — space, time, mass, force, momentum, torque, and angular momentum — were introduced in classical mechanics in order to solve the most famous physics problem.		
Indicative Content	Kinematics Newton's Laws Momentum and Impulse Non-inertial reference frames Kinetic Energy and Work Potential Energy and Energy Conservation Rotational Motion and Angular Momentum Mechanical Oscillations Forced Oscillations and Resonance Introduction to Fluid Mechanics		