**Physics 1 (ECTS credits: 6)**

Language: the course is offered in Serbian and Hungarian.

**Course description:**

The course covers the main areas of classical physics at an introductory level.

This basic course covers the following topics: Kinematics, Dynamics - Newton's laws, Work, Energy and Power, Conservation Laws, Basic fluid dynamics, Basic Thermodynamics, Ideal gas, Oscillatory, and wave motion.

**Aims, Goals, and Outcomes:**

After completing the course the student will be aware of the possibilities and constraints imposed by physical laws relevant for engineering practice. In this respect, we draw attention to the relevance of conservation laws and laws of thermodynamics, especially the second law. Problem-solving is emphasized in order to develop synthetic and analytic reasoning. The student should be able to recognize what is and what is not achievable in engineering practice and always set obtainable goals.