**Mechanical Elements 2 (ECTS credits: 6)**

Language: the course is offered in Serbian and Hungarian.

**Course description:**

This course is the upgraded version of the Mechanical elements 1. During the semester, the transmission units are further analyzed along with the gears. The main aim of this course it to help students to be acquainted with various kinds of gear, such as: the cylindrical, over conical, and hypoid. Moreover, they will study worm gears which are special analyzes. The themes are built on each other, so it is necessary for the student to be fully committed to the subject in order to absorb all the required knowledge. Lectures and exercises are complementary, they go strictly parallel. Furthermore, the axles are also studied here along with the couplings and every kind of bearings. In the two courses: Mechanical Elements 1 and 2 students acquire all the basic knowledge in the field of machine elements.

**Aims:**

* Acquiring knowledge of the types and functions of machine elements (gears, axles, couplings and bearings)
* Acquiring knowledge of the methods of calculating machine elements
* Acquiring knowledge in the field of machine elements

**Learning outcomes:**

After completing this course the student should be able to:

* select and calculate machine elements
* applicate of mechanical elements in machine constructions