**Design of mechatronic devices (ECTS 6)**

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Language: the course is offered in Serbian and Hungarian.

**Course description:**

The course covers the aspects of designing of mechatronic devices. The design process is discussed in detail. The process of analysis and synthesis during the design process is discussed All design steps are discussed and integrated.

This course would cover the following topics, both as lectures and exercises:

1. Introduction
2. Aspects of design
3. Design process - steps
4. Design process – steps
5. Analysis
6. Calculations
7. Iterative procedures in design
8. Synthesis
9. Design of a given mechatronic device
10. Design of a given mechatronic device
11. Design of a given mechatronic device
12. Design of a given mechatronic device
13. Design of a given mechatronic device
14. Design of a given mechatronic device
15. Closing remarks

**Aims:**

The goals are the following: - The students should be able to understand the design process regarding mechatronic devices. They should be able to design from scratch a mechatronic device given a problem that should be solved. They should be able to produce the necessary documentation, mechanical, electrical, and control.