**Pneumatics (ECTS credits: 6)**

Language: the course is offered in Serbian and Hungarian.

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**Course description:**

The main goal of this course is to get students familiar with the features of compressed air technology. Topics include: energetics pneumatics, compressor, tanks, pipes and pipelines. Pneumatic control: combinational, sequential logic, minimization, step by step control. Implementation of hydraulic systems: hydro-tanks, rotational hydraulic engines, pump-engines, linear hydraulic engines, distribution and safety valves, pressure regulators,

**Aims:**

* Acquiring knowledge of the transfer of mechanical potential by compressed air
* Acquiring knowledge of the pneumatic components
* Acquiring knowledge of the field of pneumatic systems control
* Learning implementation through a graphical design work

**Learning outcomes:**

After completing this course the student should be able to:

* design a pneumatic system
* maintain the pneumatic system
* improve the energy performance of the pneumatic system