

Hydraulic and pneumatic machines and systems

The main goal of this bachelor program is to “produce” highly qualified engineers in the domain of Mechanical Engineering with extensive knowledge regarding fluid hydrodynamic, designing, manufacturing, operating and maintenance of hydraulic and pneumatic machines and equipment and also designing of pipe networks for water supply.

The specific and updated knowledge provided by the bachelor program includes the following components:

- Identifying, defining, and use of the notions of the fundamental sciences that are characteristic to the engineering domain
- Use of the principles and graphical instruments for the development of hydraulic and pneumatic machines and systems
- How to chose, install, use and maintain the hydraulic and pneumatic machines and systems

The main objectives of this bachelor program concerning the graduates are:

- Development of the design and computer aided design skills
- Development of the competences concerning the conception, manufacturing and operating mechanical equipment
- Training graduates to be capable to develop themselves through master program and PhD studies and to perform research work under the supervision of the professors form the department