



SUBJECT DATASHEET

Semester:	2011/12/1
Subject:	Hydraulics and Pneumatics
Code:	VEMKGEB153H
Responsible department:	Department of Applied Mechanical Engineering
Responsible department code:	MKAGT
Responsible lecturer:	Dr. András Bálint

Educational objectives:

The students will be able to apply in practice the informations given about the following fields.

Detailed content of the subject:

Introduction in hydraulics and pneumatics The hydraulic energy The structure and the symbols of the hydraulic systems The pneumatic energy Controlling the pneumatic systems Using mechanical energy in controlling the hydraulics and pneumatics Electro-pneumatic systems. Sign-transformers Sensors. Logical elements. Combinatorial networks. The Karnaught method. Secventional networks. Designing the hydraulic and pneumatic systems.

Requirements:

1 test paper on the 8 th week of the semester.

Required and suggested references:

FESTO: Pneumatika alapjai, Hidraulika alapjai