



SUBJECT DATASHEET

Semester:	2011/12/1
Subject:	Machines of Fluid Mechanics and Thermodynamics (Lab.Pract.)
Code:	VEMKGE2132V
Responsible department:	Department of Mechanical Engineering
Responsible department code:	MKGE
Responsible lecturer:	Dr. András Bálint

Educational objectives:

To make the students acquainted with the machines of fluid technic. Measuring of characteristics some thermal apparatuses.

Detailed content of the subject:

General knowledge about the measuring, the working conditions. Making the laboratory record. Rules of the work in the laboratory, electrical apparatuses, high pressure mediums (steam, compressed air) quickly rotating parts.

Measuring of distribution of velocity of a gas running in cylindrical tube.

Characteristic curve (P-V) of a fan.

Examination of type of the flow.

Coefficient of pipe friction.

Characteristic curves of a centrifugal pump.

Measuring of centrifugal pumps in series and in parallel.

Characteristic curve of a metering orifice

Calibration of a metering elbow pipe.

Indicating of a cylinder of a Whortington-pump.

Calculation of hydraulic resistance of a heat changer with measuring on a model.

Examination of a tube in tube type heat exchanger.

Measuring the heat transfer coefficient with respect boiling.

Test paper.

Supplying of measurement.

Requirements:

Taking part in lab. excercices, successful test.

Required and suggested references:

Baróti-Bálint -Bordás-Pálma-Szalav-Veres-Zsirus: Gének üzemtana laboratóriumi gyakorlatok VF



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