



# UNIVERSITY OF PANNONIA

## SUBJECT DATASHEET

<b>Semester:</b>	2011/12/1
<b>Subject:</b>	Process Control Laboratory practice
<b>Code:</b>	VEMKFOB133F
<b>Responsible department:</b>	Department of Process Engineering
<b>Responsible department code:</b>	MKFO
<b>Responsible lecturer:</b>	dr. Lajos Nagy

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### Educational objectives:

Development of application skill for methods and tools of modeling and control.

### Detailed content of the subject:

Modeling and parameter identification of temperature control system. Solving of the identification and control problems of an electric heater. Solving of the control problems of an level control system. Final report and presentation

### Requirements:

Grading is based on the three laboratory assignments, on the individual project and on a written examination. The whole content of the introductory lectures and the laboratory assignments are included in the written and verbal examination. The written examination includes two question for each assignment including the individual project. 20 points can be obtained for each answer. The result of the written and verbal examination is weighted by 20-20 % when taken into account in the final mark. The final mark is determined according to following table based on the sum of points obtained on the laboratory assignments (max 40 points) and on the individual project (max 20 points) and the weighted points of the written and verbal examination (max 40 points): points final mark above 80 excellent (5) 70-79 good (4) 60-69 medium (3) 50-59 pass (2) below 50 fail (1)

### Required and suggested references:

Moore: Digital Control Devices, ISA, NC, 1986 Moore-Herb: Understanding Distributed Process Control, ISA, NC, 1984. <http://www.pid.hu>