



SUBJECT DATASHEET

Semester:	2011/12/1
Subject:	Process Control Tools
Code:	VEMKFOM358T
Responsible department:	Department of Process Engineering
Responsible department code:	MKFO
Responsible lecturer:	dr. Lajos Nagy

Educational objectives:

Introduction to process engineering problems and tools

Detailed content of the subject:

Introduction to process engineering problems Information sources, models and tools of process engineering
Classification of process engineering tools Models and using of models for problem solving Tools for solving
process engineering problems Using Matlab for solving process engineering problems Operating of flow
sheeting simulators Structure of Aspen Plus Elements of Aspen Plus Operation of dynamics simulators
Structure of Aspen Dynamics Elements of Aspen Dynamics Midterm examination Case study I. Case study II.

Requirements:

Required and suggested references: AspenPlus Users Guide. Matlab and Simulink Users Guide. Bequette, B. W.: Process Dynamics: Modeling, Analysis, and Simulation, Prentice Hall, London
Requirements: Completing two midterm examinations. Possibilities for repeating the subject: Repeated examination on the course content.
Accepted equivalent subjects: Learning efforts necessary to satisfy the requirements of the subject: Learning of the course material.

Required and suggested references:

AspenPlus Felhasználói Kézikönyv. Matlab and Simulink Felhasználói Kézikönyv. Bequette, B. W.: Process Dynamics: Modeling, Analysis, and Simulation, Prentice Hall, London