



COURSE DATASHEET

Semester:	2015/16/1
Course:	Process engineering tools
Code:	VEMKFOM358T
Responsible department:	Department of Process Engineering
Department code:	MKFO
Responsible instructor:	dr. Lajos Nagy

Course objectives:

Introduction to process engineering problems and tools

Course content:

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, evaluation and grading:

Grading is based on two midterm examinations and reports. Final mark above 80 excellent (5) 70-80 good (4)
60-70 medium (3) 50-60 pass (2) below 50 fail (1)

Required and recommended readings:

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