UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester: 2016/17/1

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