UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2016/17/1
Course:	Up-to-Date Reaction Engineering
Code:	VEMKFMM258R
Responsible department:	Department of Chemical Engineering Science
Department code:	MKMU
Responsible instructor:	Dóra Rippelné Dr. Pethő

Course objectives:

Novel trends in chemical and biochemical reaction engineering

Course content:

1. Reaction in the chemical industry. The production, reactor development.
2. Reactor classification, batch, plug flow, mixed flow reactors
3. Reactors as a unit operation equipment
4. One step, two step reactions
5. Multiphase reactors
6. Heterogeneous catalysis
7. Packed, fluidised bed reactors
8. Deactivation of the catalyst
9. G-F, F-F reactors
10. G-S reactions
11. Reactor configuration and flow pattern

Requirements, evaluation and grading:

One exam must be written and one oral examination. Reports qualification > 2

Required and recommended readings: