



## COURSE DATASHEET

<b>Semester:</b>	2012/13/2
<b>Course:</b>	Thermodynamics for Chemical Engineers
<b>Code:</b>	VEMKFMM214T
<b>Responsible department:</b>	Department of Chemical Engineering Science
<b>Department code:</b>	MKMU
<b>Responsible instructor:</b>	dr. Géza Horváth

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### Course objectives:

Practical applicability of theoretical thermodynamics

### Course content:

1. Thermodynamic cycles
2. Comparison between gas and vapour thermodynamics
3. Gas and vapour hydrodynamics
4. Production of heat
5. Production of temperature higher than the ambient temperature
6. Production of temperature lower than the ambient temperature
7. Material system with special characters
8. Written examination
9. Combustion equipment
10. Refrigerators, cooling
11. Turbines
12. Heat transfer and equipment
13. Liquefaction of gases
14. Energy supply for separation equipment
15. Written examination

### Requirements, evaluation and grading:

Two exams must be written.

### Required and recommended readings:



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### Required and recommended readings:

H. Faltin: Technical thermodynamics

Horváth M. : Fundamentals of chemical industrial cryogenic technology