



COURSE DATASHEET

Semester:	2012/13/2
Course:	Introduction to chemical engineering
Code:	VEMKTE3112A
Responsible department:	Department of Hydrocarbon and Coal Processing
Department code:	MKOL
Responsible instructor:	Dr. Norbert Miskolczi

Course objectives:

To develop an awareness of the sources of chemical processes.

Course content:

1. Registration week
2. Chemical engineering. Definition. MSc-BSc. Quality in education. Fundamentals of education. IChemE prescriptions. Education of Chemical Engineering in Hungary. Future trends in Chemeng.
3. Development of chemical industry. Raw materials, energy sources, constructional materials.
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5. Development of chemical industry. Raw materials, energy sources, constructional materials.
6. Development of chemical industry. Raw materials, energy sources, constructional materials.
7. Development of chemical industry. Raw materials, energy sources, constructional materials.
8. Development of chemical industry. Raw materials, energy sources, constructional materials.
9. Chemical plants. Units, reactors, allactors, controllers, sensors, etc.
10. Chemical industry
11. Constructional materials and their classification. Metals, plastics, composites, etc. Properties and application of constructional materials.
12. Wastes. Laws of chemistry and chemical industry.
13. Alternative energy sources.
14. Process and plant design.
15. Hazards and loss prevention

Requirements, evaluation and grading:

Requirements:

Please see in TVSZ.

Examination paper: 1 times (min. 25%)

Possibilities for repeating the subject:-

Accepted equivalent subjects:-



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Requirements, evaluation and grading:

Learning efforts necessary to satisfy the requirements of the subject:
30h/45h

Required and recommended readings:

Matar, Sami; Hatch, Lewis Frederic (2001). Chemistry of petrochemical processes (2 ed.). Gulf Professional Publishing. ISBN 0884153150.