



## COURSE DATASHEET

|                                |   |
|--------------------------------|---|
| <b>Semester:</b>               | 2014/15/1                                     |
| <b>Course:</b>                 | Introduction to chemical engineering          |
| <b>Code:</b>                   | VEMKTE3112A                                   |
| <b>Responsible department:</b> | Department of Hydrocarbon and Coal Processing |
| <b>Department code:</b>        | MKOL  |
| <b>Responsible instructor:</b> | Dr. Norbert Miskolczi                         |

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### 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.
4. Development of chemical industry. Raw materials, energy sources, constructional materials.
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.

Possibilities for repeating the subject:-

Accepted equivalent subjects:-

Learning efforts necessary to satisfy the requirements of the subject:

30h/45h



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### Required and recommended readings:

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