



## COURSE DATASHEET

<b>Semester:</b>	2014/15/2
<b>Course:</b>	Quality Management in the Chemical Industry
<b>Code:</b>	VEMKTE3242M
<b>Responsible department:</b>	Department of Hydrocarbon and Coal Processing
<b>Department code:</b>	MKOL
<b>Responsible instructor:</b>	Csaba Tóth

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### Course objectives:

To get knowledges and limited experiences in field of quality management of the industry and engineering.

### Course content:

1. Introduction. The characteristics in the quality management in the industry. Quality properties of industrial products.
2. Collective analysis methods
3. Assessment of quality. Quality assurance in the research, product- and process development, and production processes.
4. Quality systems. TQM methods of product and process design.
5. Industrial quality management. Error detection methods and their application. Repair and fault prevention methods. FMEA in process design. Statistical process control. Analysis of experiments.
6. Quality Management System
7. Quality Management System documentation
8. Environmental Management System
9. Occupational hygiene and safety management system
10. Information Security Management System
11. Sustainable development
12. R & D Innovation and Quality
13. Strategy, Development, Analysis
14. Final examination.

### Requirements, evaluation and grading:

Types of Practical Exercises (Assignments) for Students:

Solving of some typical problems related to the quality control or management of a given product or process of the Industry (team work).

Examination paper is based on theoretical questions and practical examples.

Requirements for Examination:

Visiting hours according to the Study and Examination Regulations  
Sufficient to fulfill the practical task



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### Requirements, evaluation and grading:

Rating:

The marking are based in points.

50% practical task

50% examination

For the pass level minimum 50% of the total points are required.

### Required and recommended readings:

#### **Kötelező és ajánlott irodalom:**

1. J.M. Juran, F.M. Gryna: Jurans Quality Control Handbook. McGraw-Hill. Book Co. London, 1998.
2. R.L. Chase: Total Quality Management. IFS Publ./Springer-Verlag, 1990.
3. Horváth G.: Minőségbiztosítás a vegyiparban. Phare TDQM No. Hu-9305-4330/B1.