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UNIVERSITY OF PANNONIA

SUBJECT DATASHEET

Semester: 2010/11/2

Subject: Quality Assurance

Code: VEMKKVM412M

Responsible department: Department of Environmental Engineering

Responsible department code: MKKV

Responsible lecturer: Zsófia Kovács

Educational objectives:

Introduction to the basics of quality issues. Methods. Legal aspects of quality assurance; quality management.

Detailed content of the subject:

- 1. The environment as the subject of quality assurance, adapting the notions of quality assurance to the elements and systems of the environment and to the environment as a whole.
- 2. Description of independent factors (noise, vibration, radiation, chemical and biological threats of wastes).
- 3. Improvement of human life quality and its relation with the state of the environment.
- 4. Achieving the goals by management systems.
- 5. Applying statistical methods for quality control (MSZ EN ISO 10017): Descriptive statistics, design of experiments, hypothesis testing, measurement analysis, process capability analysis, regression analysis, reliability analysis, sampling, simulation, statistical process control (SPC) charts, statistical tolerance, time series analysis
- 6. Quality and environmental management systems auditing (MSZ EN ISO 19011).
- 7. The contribution of the CEN standardization to preserving the quality of the environment.

Requirements:

Attending the lectures, preparing an essay, passing the written examination. Examination in the end-of-semester term. The grade can be also attained by writing a successful essay (50%) and written examination (50%).

Required and suggested references:

Kun-Szabó T. (szerk.): A környezetvédelem minőségszabályozása. Műszaki Könyvkiadó, Budapest, 1999. Hubbard, N., R.: Statistical Quality Control for the Food Industry (3d ed.). Kluwer Academic/Plenum

Publishers), New York, Boston, Dordrecht, London, Moscow, 2003

Tenner-DeToro: Teljes körű minőségmenedzsment, TQM (2. kiadás) Műszaki Könyvkiadó, Budapest, 1999

Kuhlmann, A.: Amit a vállalkozónak a környezetvédelemről tudni kell. IKA, Budapest, 1993

MSZ EN ISO 19011. MSZT, Budapest, 2003.

MSZ EN ISO 10017. MSZT, Budapest, 2004.