UNIVERSITY OF PANNONIA

COURSE DATASHEET

Semester:	2016/17/1
Course:	Quality Assurance
Code:	VEMKKVM412M
Responsible department:	Department of Environmental Engineering
Department code:	MKKV
Responsible instructor:	Zsófia Kovács

Course objectives:

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

Course content:

1. The environment as the subject of quality assurance, adapting the notions of quality assureance 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, evaluation and grading:

According to the requirements of fulfillment.

Required and recommended readings:

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.