



SUBJECT DATASHEET

Semester:	2010/11/2
Subject:	Quality Assurance
Code:	VEMKKVB212M
Responsible department:	Department of Environmental Engineering
Responsible department code:	MKKV
Responsible lecturer:	Dr. Tibor Kun Szabó

Educational objectives:

Introduction to the basis and notions of quality assurance, quality management and control. Standardization as the technical tool of quality management. Understanding statistical methods.

Detailed content of the subject:

1. Knowledge on the basics, notions and methods of quality issues, quality assurance and management. Management systems at enterprises and other institutions. 2. Quality management systems: definitions of quality and quality management, standardized solutions. ISO 9000 family of standards, EFQM and TQM, description of the quality management system, documentation, supervising quality and development. 3. Quality, occupational health and safety and environmental management systems, their similarities and differences, possibilities for integration. 4. Quality features, impacts and states, options of prevention in the course of the Environmental Management System (EMR) 5. More detailed description of quality assessment and environmental measuring tools, monitoring systems. 6. Legal, technical and economic regulators that help the management. 7. Statistical methods for quality control: overall introduction, quality monitoring systems, quality awards. 8. Statistical methods for quality control: TQM, TQS, CNQS, check cards and their role, basics of statistics, sampling and evaluation methods, goodness and quality capability of products/services. 9. Quality assurance process control and monitoring. 10. Standardization and the role of standards in the development certifying and improvement of management systems. International, regional and national standardization. 11. Introduction of new standards, options for realization, switch-over. 12. The new ISO 9000:2000 family of standards: principles and model, definitions. 13. Standards: MSZ EN ISO 14000 series, MSZ 18001 and MSZ 18002 (BS 8800), ISO 22000 (HACCP). 14. IT support of quality assurance. 15. Interactive discussion on quality assurance case studies.

Requirements:

Attending the courses is not compulsory. The mid-term work is assessed according to the essay handed in and the written examination.

Required and suggested references:

Veres G.: A minőségügy fogalomrendszere. Veszprémi Egyetem. Kézirat, 1997 Kun-Szabó T. (szerk.): A környezetvédelem minőségsszabályozása. Műszaki Könyvkiadó, Budapest, 1999 Bálint J.: Minőség - tanuljuk,



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tanítsuk és valósítsuk meg (2. kiadás), Műszaki Könyvkiadó, Budapest, 2003 Koczor Z.: Minőségirányítási rendszerek fejlesztése: Műszaki Könyvkiadó, Budapest, 1997 Kerényi E.: Környezetvédelem. Műszaki értelmező szótár. Akadémiai Kiadó, Budapest, 1990. Hubbard, N., R.: Statistical Quality Control for the Food Industry. Kluwer Academic/Plenum Publishers, New York, Boston, Dordrecht, London, Moscow, 2003 Johnson, P., L.: ISO 9000. Hogyan feleljünk meg az új nemzetközi szabványoknak? Panem-McGrawHill, Budapest, 1997