**Computer Network Administration (ECTS credits: 6)**

Language: the course is offered in English, Serbian and Hungarian.

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**Course description:**

The course provides basic theoretical and practical elements of computer network administration. It gives an introduction to basic tasks and techniques of computer network administration. It uses the FCAPS approach. It also gives an overview of the basic elements of administering important network services. During the course the SNMP protocol is used. In addition to the theoretical aspect, the course also has a practical dimension. Through practical examples, the course explains the importance of theory.

This course cover the following topics:

An overview of management methods and the computer network management. ITIL and FCAPS methods. Network configuration management and network services. Performance management, performance of computer networks and network services. Error management, detection, localization and automatic error canceling. Accounting management. Security and safety issues of computer networks and information systems. Setting up network services. Network service management. SNMP protocol. Monitoring of network services.

Practical classes take place in an adequately equipped computer laboratory. The topics of practical classes coincide and follow the topics of the lectures. The goal of practical teaching is to determine theoretical knowledge and to connect theory with practice.

**Aims:**

The main goal of the course is gaining competence for work on jobs regarding the administration of computer networks. Forming the ability to analyze, synthesize and maintain simple computer networks and system of network services. In addition to the theoretical aspect, the course also has a practical dimension. Through practical examples, the course explains the importance of theory.