

Title Networks Management	Code 1018021810108210102
Field Electronics and Telecommunications	Year / Semester 4 / 8
Specialty -	Course core
Hours Lectures: 2 Classes: 1 Laboratory: - Projects / seminars: -	Number of credits 4
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory course for students of Electronics and Telecommunications.

Assumptions and objectives of the course:

Understanding of the network management terminology, standards, ideas and mechanisms used in network management systems. Development of familiarity with selected network management platforms and systems.

Contents of the course (course description):

Lectures: Overall concepts of standardized network management. Key terms and concepts. OSI management structure. MIB - management information base. Examples of network management operations. Overview of OSI management standards: CMISE, CMIP, OSI management functional areas, systems management, structure of management information and management information base. Architecture, management services and functions of TMN. TMN concept application methodology. The TCP/IP network management problems: SNMP and SNMPv2 protocols, MIB-II. Comparison of SNMP management to OSI management. OSI management standards implementations. General presentation of selected network management platforms and systems. Classes: The architecture of MIBII. ASN.1 notation. General coding rules: BER, PER, CER I DER coding. Creating macros in ASN.1. SNMP protocol. Network management platforms.

Introductory courses and the required pre-knowledge:

Basic knowledge of protocols and computer networks.

Courses form and teaching methods:

Lectures supported by multimedia presentations.

Form and terms of complete the course - requirements and assessment methods:

Individual projects, written exam.

Basic Bibliography:

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Additional Bibliography:

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