| Title **Networks Management** | Code **1018071810108210182** |
|---|---|
| Field **Electronics and Telecommunications** | Year / Semester **4 / 8** |
| Specialty **-** | Course **core** |
| Hours Lectures: **8**  Classes: **1**  Laboratory: **-**  Projects / seminars: **-** | Number of credits **0** |
| | 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 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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