

Title Basics of telecommunications	Code 1018011410108320269
Field Electronics and Telecommunications	Year / Semester 2 / 4
Specialty -	Course core
Hours Lectures: 3 Classes: 15 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:

Making students familiar with the basic ideas of telecommunications, their techniques and principles of design and maintenance of telecommunication systems

Contents of the course (course description):

Characteristic of telecommunication: social meaning, past and future; telecommunication services; telecommunication channel; signals and systems; random signals; analog modulations of harmonic carrier; modulation and demodulation processes; noise characteristics of analog modulations; pulse-code modulations; source coding; digital modulations of harmonic carrier; baseband and passband transmission; multiplexing; error correcting codes and transmission codes; PDH and SDH;

Introductory courses and the required pre-knowledge:

Mathematical analysis, signal theory, basics of analog and digital circuits and systems, probabilistic theory

Courses form and teaching methods:

Lectures, computational exercises

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

Test, written exam

Basic Bibliography:

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Additional Bibliography:

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