

Title Digital communication systems	Code 1018011610108100081
Field Electronics and Telecommunications	Year / Semester 3 / 6
Specialty -	Course core
Hours Lectures: 3 Classes: - Laboratory: - Projects / seminars: -	Number of credits 0
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory course in the field of studies Electronics and Telecommunications (Faculty of Electronics and Telecommunications)

Assumptions and objectives of the course:

The course aims at getting acquainted with theoretical foundations of digital communication systems

Contents of the course (course description):

Sources of digital signals for communication systems, baseband transmission, digital modulations of a sinusoidal carrier (ASK, PSK, FSK and QAM), optimum coherent and non-coherent receiver, continuous phase modulations, trellis coded modulations, multitone OFDM transmission, properties of the most important type of transmission channels, channel equalization, sequential detection, timing and carrier synchronization algorithms and structures, examples of digital communication systems

Introductory courses and the required pre-knowledge:

Basic knowledge in communication systems, signal theory and statistics and probability theory

Courses form and teaching methods:

Lectures and excercises taught during lecture hours

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

Written examination

Basic Bibliography:

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Additional Bibliography:

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