Title Digital Transmission Systems	Code 1018011810108120286
Field Electronics and Telecommunications	Year / Semester 4 / 8
Specialty	Course
Hours	CORE Number of credits
Lectures: 2 Classes: - Laboratory: - Projects / seminars: -	0
	Language
	polish

Lecturer:

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Faculty:

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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):

Pulse modulations and pulse-code modulation (PCM), elements of information theory (channel capacity), baseband transmission, digital modulations of a sinusoidal carrier (ASK, FSK, PSK, DPSK and QAM), optimum coherent and non-coherent receiver, continuous phase modulations (CPM), trellis coded modulations (TCM), multitone OFDM transmission, 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 with illustrative examples

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

Basic Bibliography:

Additional Bibliography: