

Title Introduction to Telecommunications	Code 1010324281010320377
Field Electrical Engineering	Year / Semester 4 / 8
Specialty Electric and Computer Systems of Vehicles	Course core
Hours Lectures: 1 Classes: - Laboratory: 7 Projects / seminars: -	Number of credits 8
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory subject, Faculty of Electrical Engineering, Field: Electrical Engineering, Extramural studies

Assumptions and objectives of the course:

Knowledge of theoretical and practical subjects related to the ideas, techniques and principles of operation of telecommunications systems.

Contents of the course (course description):

Social importance of telecommunications, types of telecommunications systems, analog and digital signals, spectral representation of signals, analog modulation techniques, pulse modulation and pulse - code modulation PCM, methods of spread spectrum, types and properties of line codes, electrical and optical transmission media, connection and connectionless modes, multiplexing methods: TDM, FDM, WDM.

Introductory courses and the required pre-knowledge:

Basic knowledge of informatics and mathematics.

Courses form and teaching methods:

Lectures, supported by slides, laboratory exercises.

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

Written examination, credits for laboratory exercises.

Basic Bibliography:

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Additional Bibliography:

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