

Title Teletransmission	Code 1018071610108310162
Field Electronics and Telecommunications	Year / Semester 3 / 6
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: - Projects / seminars: -	Number of credits 1
	Language polish

Lecturer:

dr inż. Zbigniew Szymański
Katedra Systemów Telekomunikacyjnych i Optoelektroniki
e-mail: zszyma@et.put.poznan.pl

Faculty:

Faculty of Electronics and Telecommunications
ul. Piotrowo 3A
60-965 Poznań
tel. (061) 665-2293, fax. (061) 665-2572
e-mail: office_det@put.poznan.pl

Status of the course in the study program:

Obligatory course for students of Electronics and Telecommunications.

Assumptions and objectives of the course:

To provide the student with the basic knowledge of the theory and properties of transmission lines and their influence on transmitted signal.

Contents of the course (course description):

Transmission line: its properties and transmission parameters. The use of flow wave graph theory for describing various kinds of signals during transmission through a long transmission line. Non-adjustments of impedance. Near-end-crosstalks and far-end-crosstalks: sources, evaluation of influence on signal quality, characteristics, direct and indirect crosstalks. 2-wire and 4-wire trunks. Subscriber loops and long haul trunks, hybrid coupler, amplifying. Types and constructions of telecommunication cables. Principles of installation. Transmission FDM and PCM systems.

Introductory courses and the required pre-knowledge:

Circuits theory, waves and antennas.

Courses form and teaching methods:

Lectures, exercises.

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

Written credit.

Basic Bibliography:

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Additional Bibliography:

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