

Title Integrated Networks and Systems	Code 1010822191010800121
Field Electronics and Telecommunications	Year / Semester 5 / 9
Specialty Information Transport Networks	Course core
Hours Lectures: 2 Classes: 1 Laboratory: 2 Projects / seminars: -	Number of credits 8
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory course for students of Electronics and Telecommunications.
specialization Information Transport Networks.

Assumptions and objectives of the course:

Making students familiar with call control in integrated networks, signalling systems, structures, functions, and operations of devices used in integrated services networks.

Contents of the course (course description):

Signalling systems in integrated networks, Signalling system DSS1 ? the second and the third layer. Frame structure. Examples of call set up. SS7 signalling system ? architecture and functions. Signalling network. Message Transfer Part. Signalling unit structure, signalling link functions. Signalling data service. Management of signalling network. Switching node architecture in integrated networks. Switching networks: control, path searching algorithms in circuit switching networks, path searching and cell transfer in broadband networks. Switching networks in photonic switching systems. WDM switching networks and systems.

Introductory courses and the required pre-knowledge:

Telecommunication networks

Courses form and teaching methods:

Lectures illustrated by slides, laboratory exercises and classes.

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

Egzamin pisemny.

Basic Bibliography:

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Additional Bibliography:

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