

Title System Theory	Code 1018011310108400061
Field Electronics and Telecommunications	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 2 Classes: 1 Laboratory: 2 Projects / seminars: -	Number of credits 0
	Language polish

Lecturer:

prof. dr hab. inż. Marek Domański
Katedra Telekomunikacji Multimedialnej i Mikroelektroniki
tel. +48 61 66 53 901, fax. +48 61 66 53 899
e-mail: domanski@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:

- Students should obtain knowledge on basic system theory, with the emphasis on linear systems, and on basic filter theory.

Contents of the course (course description):

- Basic definitions and theorems of linear and nonlinear system theory. Description of linear systems in time and frequency domain. Introduction to linear system theory. Feedback loop. Stability. Introduction to automatic control. Chaos. Neural networks. Approximation of frequency characteristics.

Introductory courses and the required pre-knowledge:

- Signal theory, differential and difference equations, Fourier and Laplace transforms, circuit theory.

Courses form and teaching methods:

- Lecture, classes with problem solving, laboratory work

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

- Individual activity during classes,
- Written tests,
- Written examination (solving problems),
- Oral examination.

Basic Bibliography:

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Additional Bibliography:

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