

Title Circuit theory	Code 1010321221010320133
Field Electrical Engineering	Year / Semester 1 / 2
Specialty -	Course core
Hours Lectures: 2 Classes: 2 Laboratory: 2 Projects / seminars: -	Number of credits 6
	Language polish

Lecturer:

D.Sc., PhD Konrad Skowronek,
tel. +48 61 665 27 88, +48 61 665 23 82;
e-mail: Konrad.Skowronek@put.poznan.pl

Faculty:

Faculty of Electrical Engineering
ul. Piotrowo 3A
60-965 Poznań
tel. (061) 665-2539, fax. (061) 665-2548
e-mail: office_deef@put.poznan.pl

Status of the course in the study program:

Obligatory course at the Faculty of Electrical Engineering, Faculty of Electrical Engineering, full-time education.

Assumptions and objectives of the course:

Understanding the fundamental properties and methods of analysis of sinusoidal alternating current circuits and niesinusoidalnego. Knowledge of classical methods and operators in the transient analysis of linear systems. Knowing the theory of four-terminal networks and filters.

Contents of the course (course description):

The method of symmetrical components. Linear circuits with periodic odkształconymi currents in steady state. Nonlinear alternating current circuits. Classic method and Laplace operators in the transient analysis of linear systems. Electrical circuits with discrete time. Fourier Transform.

Introductory courses and the required pre-knowledge:

Algebra of complex numbers. Vector Analysis. Fundamentals of the theory of differential equations. Introduction to the theory of electrical circuits (in the basics of electrical engineering a semester).

Courses form and teaching methods:

Lecture illustrated with films and slides, exercises accounting

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

Exercises, written tests on accounting exam.

Basic Bibliography:

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Additional Bibliography:

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