

Title Mathematical modeling of energy installations	Code 1010315331010320860
Field Power Engineering	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: -	Number of credits 3
	Language polish

Lecturer:

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Status of the course in the study program:

Obligatory subject, Faculty of Electrical Engineering, Field: Electrical Power Engineering, Profile: Extramural undergraduate studies

Assumptions and objectives of the course:

Understanding the rules of construction, modeling, calculation, design and operation of electrical installations and power grids.

Contents of the course (course description):

Determination of mathematical models and installation of power grids. Calculation of steady and transient processes and forecasting, calculation and optimization of load distribution. Calculation of short circuit currents. Selection of equipment for electrical installations.

Introductory courses and the required pre-knowledge:

Basics of electrical engineering and power engineering. Computer skills.

Courses form and teaching methods:

Laboratory classes measuring and designing. Lectures illustrated with drawings on film.

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

Credit classes on the basis of laboratory reports and final test. Credit a lecture on the basis of the written exam.

Basic Bibliography:

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Additional Bibliography:

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