

Title Lighting engineering	Code 1010324291010320416
Field Electrical engineering	Year / Semester 5 / 9
Specialty Lighting engineering	Course core
Hours Lectures: 1 Classes: - Laboratory: 9 Projects / seminars: 9	Number of credits 6
	Language polish

Lecturer:

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Status of the course in the study program:

Basic obligatory course of the study program in Electrical Engineering Faculty for extramural undergraduate study. Sub-branch ? profile: Lighting Engineering.

Assumptions and objectives of the course:

The student should obtain knowledge in the field of visual process, characteristics of lamps, luminaries and of lighting systems design.

Contents of the course (course description):

Quality and quantity of illumination. Visual comfort and performance. Lighting parameters: lighting level, luminance distribution, glare, reflected glare, veiling reflections, contrast rendering, modelling, colour. Lighting system design considerations. Lighting Standards. Types of lighting systems. Selection of lighting systems, sources and luminaires. Depreciation in light output. Maintenance. Emergency lighting. Application fields: offices, educational buildings, industrial buildings, shops and stores. Exterior lighting - application fields: roads, parks. Architectural lighting.

Introductory courses and the required pre-knowledge:

Basic knowledge of physics and electrical engineering.

Courses form and teaching methods:

Lectures, laboratories, project.

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

Exam, Tests.

Basic Bibliography:

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Additional Bibliography:

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