

Title Lighting Engineering	Code 10103222310103201308
Field Electrical engineering	Year / Semester 2 / 3
Specialty Lighting Engineering	Course core
Hours Lectures: 1 Classes: - Laboratory: 1 Projects / seminars: 1	Number of credits 3
	Language polish

Lecturer:

dr inż. Małgorzata Górczewska
Instytut Elektrotechniki i Elektroniki Przemysłowej
60-965 Poznań, ul. Piotrowo 3a
tel. +48 61 665 2388
e-mail: Malgorzata.Gorczevska@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:

Basic obligatory course of the study program in Electrical Engineering Faculty for stationary Master's 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, museums. Sports Lighting. Exterior lighting - application fields: roads, tunnels, parks. Architectural lighting

Introductory courses and the required pre-knowledge:

Basic knowledge of physics and electrical engineering

Courses form and teaching methods:

Lectures supported by examples.
Laboratories: practical training in Lighting Engineering.

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

Written and oral examination.
Tests and active participation in laboratories

Basic Bibliography:

-

Additional Bibliography:

-