

Title <b>Electrothermal conversions</b>	Code <b>10103212710103201258</b>
Field <b>Electrical engineering</b>	Year / Semester <b>4 / 7</b>
Specialty <b>Lighting engineering</b>	Course <b>core</b>
Hours Lectures: <b>1</b> Classes: -    Laboratory: -    Projects / seminars: -	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

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**Status of the course in the study program:**

Obligatory course of the study program in Electrical Engineering Faculty for full time undergraduate studies, specialty ? Lighting Engineering

**Assumptions and objectives of the course:**

The student should obtain knowledge in the field of electrical heating and heat transfer in different parts of lighting equipment.

**Contents of the course (course description):**

Electrical heating and heat transfer in lighting engineering. The problems of the electric heat losses in designs of luminaires. Incandescent and luminescent sources for optical radiation using in heating and lighting. Energetic balance of lamps. Radiate heat transfer. Pyrometry and thermometry.

**Introductory courses and the required pre-knowledge:**

Basic knowledge of physics and electrical engineering

**Courses form and teaching methods:**

Lectures

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

Examination

**Basic Bibliography:**

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**Additional Bibliography:**

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