

Title <b>Thermokinetic processes in conversion of renewable energy</b>	Code <b>1010315331010320862</b>
Field <b>Power Engineering</b>	Year / Semester <b>2 / 3</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>8</b> Classes: -    Laboratory: <b>8</b> Projects / seminars: -	Number of credits <b>2</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 Power Engineering Faculty for extramural graduate studies.

**Assumptions and objectives of the course:**

-The student should obtain knowledge in the field of heat transfer and temperature measurements. He should learned about equations describing a heat exchange in typical thermokinetics systems and in electrical devices.

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

-Electroheat processes in electrical devices, permissible temperatures vs. powers of electrical equipment and devices. Principles of thermokinetics. Heat conduction. Convective heat exchange. Heat radiation. Heat electric measurement. Pyrometers and thermometers. Temperature measurement in industries devices.

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

-Basic knowledge of physics, mathematics and electrical engineering.

**Courses form and teaching methods:**

-Lectures and practical training in laboratory.

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

-Examination, tests, laboratory reports.

**Basic Bibliography:**

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**Additional Bibliography:**

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