

Title Alternative energy sources	Code 1010102231010130382
Field Environmental Engineering Second-cycle Studies	Year / Semester 2 / 3
Specialty -	Course core
Hours Lectures: 1 Classes: - Laboratory: - Projects / seminars: 1	Number of credits 3
	Language polish

Lecturer:

Tomasz Mróz, PhD, Dr Sc.

Faculty:

Faculty of Civil and Environmental Engineering
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Status of the course in the study program:

Core course for students of Environmental Engineering

Assumptions and objectives of the course:

The main aim of the course is to give a background knowledge of alternative energy sources and their applicability for buildings and community energy systems;

Contents of the course (course description):

Energy, ecology, economy and formal aspects of utilization of alternative energy sources (AES). Overview and energy and ecology characteristics of available technologies. Application of alternative energy sources for developed urban areas and dispersed building systems; Methods of technological optimization of alternative energy sources. The rules of AES exploitation.

Introductory courses and the required pre-knowledge:

Basic knowledge of technical thermodynamics and energy management

Courses form and teaching methods:

Lectures (transparent and multimedia projector),
Seminar ? consulting procedures.

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

Written test,
Preparation and presentation of one of alternative energy technologies.

Basic Bibliography:

Additional Bibliography: