

Title <b>(Gospodarka energetyczna)</b>	Code <b>1010101261010130359</b>
Field <b>Environmental Engineering First-cycle Studies</b>	Year / Semester <b>3 / 6</b>
Specialty -	Course <b>core</b>
Hours Lectures: <b>2</b> Classes: -    Laboratory: -    Projects / seminars: <b>1</b>	Number of credits <b>3</b>
	Language <b>polish</b>

**Lecturer:**

Tomasz Mróz, Ph.D. D.Sc., Eng.  
tel. +48 61 665 2414  
e-mail: tomasz.mroz@put.poznan.pl

**Faculty:**

Faculty of Civil and Environmental Engineering  
ul. Piotrowo 5  
60-965 Poznań  
tel. (061) 665-2413, fax. (061) 665-2444  
e-mail: office\_dceef@put.poznan.pl

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

Core course.

**Assumptions and objectives of the course:**

The main aim of the course is to present and discuss methods of energy and economy efficiency analysis of community energy systems and to present energy planning methods.

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

Overview of deposit resources of fossil fuels and renewable energies. Methods of energy analysis in buildings and community systems with respect to their sustainable development. Application of energy and substantial balances for energy efficiency analysis of community energy systems. Methods of economic analysis in energy management. Planning of community energy systems modernization and development.

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

Heat Engineering, Economy and Management.

Web pages:  
www.ecbcs.org  
www.iea.org

**Courses form and teaching methods:**

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

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

Written test. Energy management project preparation and discussion.

**Basic Bibliography:**

**Additional Bibliography:**