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| Title Energy community systems | Code 1010102221010130562 |
| Field Environmental Engineering Second-cycle Studies | Year / Semester 1 / 2 |
| Specialty Heating, Air Conditioning and Air Protection | Course core |
| Hours Lectures: 2 Classes: - Laboratory: - Projects / seminars: 2 | Number of credits 4 |
| | Language polish |

Lecturer:

Tomasz Mróz, PhD, Dr Sc.

Faculty:

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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 community energy systems and methods of their energy, ecology and economy optimization.

Contents of the course (course description):

Energy, ecology and economy characteristics of demand and supply side of community energy market (energy sources, network systems, energy end users). Methods of rating of community energy systems modernization and development scenarios; The rules of community energy systems 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),
Project ? case study consulting procedures;

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

Written examination,
Community energy system project preparation and discussion.

Basic Bibliography:

Additional Bibliography: