



**FACULTY: ENVIRONMENTAL ENGINEERING**

**COURSE TITLE: Indoor air quality and energy conservation**

**Number of contact hours: 30**

**Duration: 1 semester (spring)**

**ECTS credits: 4**

**Programme description:** This course comprises lectures laboratory exercises and projects. It covers the aspects of indoor air quality requirements, influence of contaminants on the human body, ventilation and energy conservation methods used in the building sector. The main topics of the course are listed below:

- Indoor air quality requirements and indicators for different building structures
- Indoor air pollutants and their influence on the human body
- Ventilation methods used in modern technology
- Control systems used for energy efficiency and maintaining indoor air quality
- Energy recovery methods used in ventilation systems
- Ventilation methods used in energy efficient dwellings

**Course type:** lectures (15), lab (5) project (10),

**Literature:**

**Assessment method:**

**Lecturer:** PhD Eng Jarosław Müller

**Contact person:** Jarosław Müller, [jmuller@pk.edu.pl](mailto:jmuller@pk.edu.pl)