



**FACULTY: ENVIRONMENTAL ENGINEERING AND ENERGY**

**COURSE TITLE: Geographic Information Systems**

**Number of contact hours:** 30

**Duration:** 1 semester (spring)

**ECTS credits:** 4

**Programme description:**

This introductory course to geographic information systems will cover theoretical and practical aspects of spatial data gathering and practical use. During all assignments we will use free data and free software (QGIS).

Specific problems discussed during lectures and computer labs will cover:

- gathering and storage of spatial data,
- creation, editing and analysis of vector data,
- introduction to raster data,
- methods of spatial data visualization.

Students will gain basic skills in spatial data handling and visualization.

**Course type (hours):** lectures (2), computer labs (26)

**Literature:** R. Thiede, T. Sutton, H. Düster, M. Sutton, QGIS Training Manual

**Assessment method:** computer assignments

**Lecturer:** dr Beata Baziak

**Contact person (e-mail):** beata.baziak.@pk.edu.pl