



**FACULTY: ENVIRONMENTAL ENGINEERING**

**COURSE TITLE: SUSTAINABLE WASTEWATER TREATMENT**

**Course code:**

**Number of contact hours: 30**

**Duration: 1 semester (spring)**

**ECTS credits: 4**

**Programme description:** The module directly addresses the topic of sustainability in wastewater treatment systems. The students will be taught the fundamentals of sustainable designing and operation of wastewater treatment plants. They will be provided with the knowledge regarding multi-media interactions between the wastewater treatment plant and the environment and the method of its evaluation. These will be supplemented with cost-benefit analysis, basics of environmental accounting and risk evaluation methodologies. After the module the students will be able to design sustainable wastewater treatment systems, evaluate them, and provide recommendations for their improvement from sustainability perspective

**Course type:** lectures (15), workshop (15),

**Literature:** A list will be presented at the first lecture

**Assessment method:** Attendance, exercises, final presentation

**Lecturer:** Jerzy Mikosz, Assoc. Prof.

**Contact person:** Wojciech Dąbrowski, Professor, phone #: +48 12 628-25-51; e-mail: wdabrow@usk.pk.edu.pl Jerzy Mikosz, Ph.D.(Eng.), phone #: (+48 12) 628-2183; e-mail: jmikosz@pk.edu.pl