



**FACULTY: ENVIRONMENTAL ENGINEERING**

**COURSE TITLE: WATER AND WASTEWATER PROCESS TECHNOLOGY**

**Number of contact hours: 30**

**Duration: 1 semester (spring)**

**ECTS credits: 4**

**Programme description:** The module is designed as a tool for understanding the principles of basic technological processes, which are a part of recent advances in water and wastewater treatment as well as others that take place within water and sewer lines. The module broads students' general knowledge on environmental chemistry, introducing, at the same time, some specific biochemical and physical processes occurring in water and wastewater technology. This way, the module sequence comprising: Environmental Chemistry, Unit Processes in Water and Wastewater Treatment Technologies and Water and Wastewater Treatment constitutes an integral unit, focusing on identification, understanding and application of water and wastewater treatment processes. Judging from the previous experiences on module implementation, such approach seems to be the most appropriate way of transfer from the environmental chemistry issues to the water and wastewater treatment problems. Moreover, the students who had finished the module and choose to specialize in other areas will have a sufficient theoretical background to continue their further education in the field of water supply and wastewater treatment.

**Course type (hours):** lectures (15), workshops (15)

**Literature:** Barrow G. M.: Physical chemistry; Grady C. P. L.: Biological wastewater treatment

**Assessment method:** Attendance and the final exam

**Lecturer:** Małgorzata Cimochowicz-Rybicka, Ph.D. (Eng.), Małgorzata Kryłów, PhD.

**Contact:** Małgorzata Cimochowicz-Rybicka, PhD,(Eng.); phone #: +48 12 628 28 65; e-mail: [gosia@vistula.wis.pk.edu.pl](mailto:gosia@vistula.wis.pk.edu.pl)