



Politechnika Krakowska  
im. Tadeusza Kościuszki

**FACULTY: ENVIRONMENTAL ENGINEERING**

**COURSE TITLE: URBAN SURFACE RUNOFF CONTROL**

**Institute/Division: Institute of Water Supply and Environmental Protection, Chair of Environmental Technologies**

**Number of contact hours: 30 (Lectures, design-type exercises)**

**Course duration: 1 semester (SPRING)**

**ECTS credits: 2**

**Course description:** *The general aim of the module is to get knowledge of: Influence of urbanization on flood hazard, present strategy of management and detention of storm water in order to compensate the loss of natural retention caused by urbanization, relations between water resources protection and flood protection in urban areas, The choice of protection methods based on rainwater retention in connection with flood threat level and kind of town-planning. Students will gain knowledge to gather by the future engineers abilities covering: assessment of usefulness of technical solutions depending on their protective function and techniques of designing some particular solutions on a local scale as well as practical knowledge of various technologies of rainwater storage.*

**Literature:** Osman-Akan, Robert J. Houghtalen / Urban hydrology, hydraulics and stormwater quality; J. Willey & Sons: Hoboken 2003; Other books and papers will be delivered by teaching staff at the beginning of module.

**Assessment method:** Design exercises assessment, final test in writing

**Primary target group:** 3rd year students in Environmental Engineering programme, BSc (Undergraduate)

**Lecturer:** Andrzej Mączyński Ph.D. (Eng.)

**Contact person:** Andrzej Mączyński Ph.D. (Eng.); phone 0048 12 628 21 88e-mail: andrzej.maczalowski@iigw.pl

**Deadline for application:** 1<sup>st</sup> February 2016