



FACULTY: ENVIRONMENTAL ENGINEERING

COURSE TITLE: SEWERAGE REAL-TIME MODELLING

Number of contact hours: 30

Duration: 1 semester (spring)

ECTS credits:4

Programme description: Main aim of the module is to learn principles of non-stationary flow modelling in sewers, on accumulating of pollution in sewerage catchments and they washing out, on average loads of pollution to be potentially realized and partially discharged to the sewerage system, on methods of decreasing the discharge of pollution to storm water sewerage systems. The Storm Water Management Model will be used as an available free domain software suitable for non-stationary flow modelling. Different storm water storage methods will be described and tested in computations. Students will use then present an application of the SWWM model for a sewerage system of variable rain intensity. Side effect of this module for students of other mother language than English will be broadening professional vocabulary of specialized terms being used in sewerage systems' modelling and design

Course type (hours): lectures (15), computer exercise (15)

Literature: *SWWM model – reference manual. Use of the SWWM model for practical application – by USEPA, all necessary literature will be accessible via www.*

Assessment method: Design exercises/program use, final test

Lecturer: Wojciech Dąbrowski, Professor; Robert Płoskonka Ph.D.(Eng.).

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