



FACULTY: ENVIRONMENTAL ENGINEERING

COURSE TITLE: SOLID WASTE MANAGEMENT

Course code:

Number of contact hours: 60 hours

Duration: 1 semester (fall)

ECTS credits: 6

Programme description: Module introduces basic processes of the municipal solid waste (MSW) disposal and the methods of MSW management systems evaluation. Students are introduced to the Integrated Waste Management (IWM I and IWM II) software and use it to conduct a comparative analysis of different waste disposal systems. The existing, in different European towns, waste disposal systems are presented and evaluated using the IWM I method. The field trips are organized to help students understand the reality of waste disposal.

Course type: lectures (15), computer simulations (15), project (15) field trip (15)

Literature: McDougall F., White P., Franke M., Hindle P. "Integrated Solid Waste Management: a Life Cycle Inventory", Blackwell Publishing, Stypka T. and others "Municipal Solid Waste and Sludge Handling - Sustainability and Trends" e-book Bilitewski B., and others "Waste management" Springer

Assessment method: students, individually or in groups of two, prepare a comparative analysis of two waste disposal systems. The analysis compares the systems in two towns or evaluates the students' proposal of improvements of the existing system.

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