Environmental Aspects of Nuclear Energy

Specialization: Environmental Engineering (optional subject) Level of the course: BSc Course

Course code: NGB_FI009_1 Credits: 2 Language: Hungarian

Course description: In this course the student will study the history of nuclear power, the basic principles of reactor design and operation at commercial nuclear electrical generating facilities. It includes an examination of environmental impact of nuclear power plant and fuel cycle. Scientific and engineering aspects of nuclear waste management are also discussed. Management of spent fuel, high-level waste, uranium mill tailings, low-level waste and decommissioning wastes. Fundamental processes and governing equations for the evaluation of waste management systems with emphasis on the safety assessment of waste disposal facilities.