

## **Final exam questions – BSc in Environmental Engineering 2022**

In the final exam we would like to ascertain the application of the engineering mindset in the learned fields and the knowledge of the legal regulations.

1. Principles of waste management, waste grouping, prevention and logistics.  
Characteristics and treatment of hazardous wastes.
2. Material and energy recovery of wastes. Disposal of waste by landfill, design and operation of the landfill.
3. Technological steps of wastewater treatment, operation of a wastewater treatment plant.
4. Air pollution, air pollutants and their effects.
5. Methods for the removal of solid and gaseous air pollutants.
6. Physical and chemical properties of inorganic pollutants, anthropogenic sources, human and environmental health risks.
7. Physical and chemical properties of organic pollutants, anthropogenic sources, human and environmental health risks
8. Pollutants endangering surface water, groundwater and the geological environment
9. Assessment of contaminated sites, preliminary risk assessment, priority list.
10. Sources and reduction of noise and vibration exposure
11. Environmental impact of agriculture and possible procedures for reduction
12. Environmental impact of industry and possible mitigation procedures