

# **Environmental Biotechnology (BIZP - SS)**

1. **Introduction, definition of basic terms. Approach to global problems of pollution and environmental protection.** (allowance 2/0)
2. **Chemicals in the environment - the basic concepts and definitions. Environmentally hazardous chemicals.** (allowance 2/0)
3. **The fate of chemicals in the environment - transport, persistence, toxicity.** (allowance 2/0)
4. **Examples of pollutants - toxic metals, volatile organic compounds, detergents, phthalates, pesticides.** (allowance 2/0)
5. **Examples of pollutants - persistent organic pollutants.** (allowance 2/0)
6. **Methods for detection of pollutants I - sampling, storage and processing of samples.** (allowance 2/7)
7. **Methods for detection of pollutants II - robust equipment and in situ analysis.** (allowance 2/7)
8. **Remediation processes - classification, the basic principles.** (allowance 2/0)
9. **Bioremediation.** (allowance 4/0)
10. **Phytoremediation.** (allowance 4/0)
11. **Approaches to increase the effectiveness of bioremediation approaches.** (allowance 2/0)