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Module 2. Biotechnology for waste utilization

Course 2: The Applied Aspects of Using **Biotechnological Methods for Waste Utilization, 3 ECTS**

aim of the course

competences obtained by students

apply biotechnological methods for waste treatment to prevent environmental contamination

to use terminology of bioremediation, biodegradation and bioconversion of natural and xenobiotic compounds; phytoremediation; biotechnology for the protection of environment; use biological methods for treatment; argue and assess the possibility of using biological methods for pollutants treatment

learning outcomes



after this course students will be able to

- have knowledge and practical skills in application of the classical and most up-to-date biotechnologies
- present an overview of important environmental biotechnologies involved in biotransformation of pollutants and generation of energy
- use theoretical and practical knowledge to conduct research of water purification and biodegradation of a wide range of contaminants

course content

- environmental biotechnology and its role in environmental protection
- wastewater and treatment methods
- biotesting and bioindication bioremediation

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