

Wydział Nauk o Środowisku
Egzamin dyplomowy
Studia stacjonarne I stopnia - kierunek: Inżynieria środowiska
specjalność: Biotechnology

od cyklu kształcenia 2019/2020

Zagadnienia dyplomowe	Efekty kierunkowe
1. Hurdle technology in food preservation: concept, hurdle effect and future prospects.	K_W02 K_W03
2. Antimicrobials derived from plant sources which can be used as food preservatives.	K_W04 K_W05
3. Protective cultures, function and application areas.	K_W06
4. Bacteriocins of lactic acid bacteria: characteristics, classification and food applications.	K_W07 K_W08
5. Enzyme technology and bioinformatics	K_W09
6. Possibilities of new product design via bioinformatic applications	K_W10
7. Enzymes preparations in food industry	K_W11
8. Examples of biotechnology application in food production	K_W12
9. Application of microorganisms in food production	K_W14
10. Enzymatic modification of food compounds	K_W16
11. Microbial proteins and oils as food components	
12. Phages application in biotechnology	K_U03
13. Nanotechnology in food production	K_U04
14. Membrane techniques in food technology	K_U06
15. Design Thinking - aim, definition, samples of DT projects	K_U07
16. Biorefinery concept and classification.	K_U08
17. Pretreatment, conversion and separation processes in biorefinery.	K_U10
18. Biochars – production, properties and examples of application.	K_U11
19. Two-stage anaerobic digestion; characteristic, process conditions.	K_U14
20. Application of Polymerase Chain Reaction (PCR) in Biotechnology	K_U15
21. Electrophoretic techniques used for nucleic acids and proteins separation	
22. Process of genetic modification	K_K01 K_K03
23. Unit processes in activated sludge with integrated removal of carbon, nitrogen and phosphorus.	
24. Technology of membrane bioreactors in wastewater treatment	
25. Biosurfactants and their application in soil remediation.	
26. Processing of sludge in wastewater treatment plants	
27. Explain the dose-response relationship.	
28. What is the purpose of specifying an "endpoint" in a study of chemical toxicity. Give several examples.	
29. Sewage sludge composting – definition, process characteristics, bioproducts obtained	
30. Mechanical-biological treatment in municipal solid waste management	