Wydział Nauk o Środowisku Egzamin dyplomowy

Studia stacjonarne II stopnia - kierunek: Inżynieria środowiska specjalność: Process Engineering and Environmental Protection studia stacjonarne

od cyklu kształcenia 2018/2019

	Zagadnienia dyplomowe	Efekty kierunkowe
1.	Enzymes used in genetic engineering.	K_W02
2.	Molecular techniques in studies of microbial communities.	K_W03
3.	Granular sludge as an example of advanced wastewater	K_W04
	treatment technologies.	K_W05
4.	Types of biomass in wastewater treatment systems.	K_W06
5.	Technology of membrane bioreactors in wastewater	K_W07
	treatment.	K_W08 K_W09
6.	The use of filtration in water treatment – iron and	K_W10
	manganese removal.	K_W11
7.	The use of filtration in water treatment – water softening.	K_W12
	Unit processes in activated sludge with integrated removal	K_W14
	of carbon, nitrogen and phosphorus.	K_W16
9.	Activated sludge – definition, mechanisms for removing	_
	carbon organic substances from wastewater.	K_U03
10.	The major operational parameters in wastewater treatment	K_U04
	systems.	K_U06
11.	The role of extracellular polymers in biomass formation in	K_U07
	wastewater treatment.	K_U08
12.	Phosphorus removal from wastewater.	K_U10
	Mechanisms of biological nitrogen removal from	K_U11
	wastewater.	K_U14 K_U15
14	Biodiesel production, types of substrates, mechanism of	K_013
	process.	K_K01
15	Technological concept of biodiesel production.	K_K03
	Stabilization of municipal waste in reactors with passive	_
10.	aeration; biological stability of waste.	
17	Sewage sludge composting – definition, process	
17.	characteristics, feedstock composition.	
12	Factors affecting the efficiency of soil bioremediation.	
	The role of statistics in environmental science;	
19.	environmental monitoring.	
20	The role of statistics in environmental science; impact	
۷٠.	assessment.	

- 21. Environmental pathways of toxic chemicals; types of processes that govern the movement and transformation of chemicals in the environment.
- 22. Mechanisms of chemical disease; non-cancer and cancer health effects.
- 23. Natural polymers for the bioplastic production.
- 24. Production of polyhydroxyalkanoates (PHA) using pure cultures of microorganisms.
- 25. Polyhydroxyalkanoates (PHA) definition, chemical structure, properties and applications.
- 26. Strategies for polyhydroxyalkanoate (PHA) production by mixed microbial cultures with the use of renewable waste materials as substrates.
- 27. Bioremediation methods for soils contaminated with oil and oil products.
- 28. Soil remediation techniques characteristics and criteria of their division.
- 29. Biosorption as a method for dye removal from wastewater.
- 30. Phytoremediation as a strategy for soil treatment.