HARMONOGRAM REALIZACJI PROGRAMU STUDIÓW DLA ZAKRESU: Intelligent Energy For Environmental Protection

Full-time studies, Second-cycle studies, Education profile: general acumic Semester 1	Field of study: Environmental Engineering									
Semester Exam	Education in the area: INTELLIGENT ENERGY FOR ENVIRONMENTAL PROTECTION									
Training on Safe and Hygienic Conditions of Education 0	Full-time studies, Second-cycle studies, Education profile: general academic									
Computer Modelling of Environmental Processes		Semester 1	Exam	ECTS	L	T	Lab	P	S	
3 Creativity and Innovative Thinking 2 30 30	1	Training on Safe and Hygienic Conditions of Education		0	4					
Instrumental Methods in Environment	2	Computer Modelling of Environmental Processes		4				60		
Instrumental Methods in Environment	3					30				
Solution Semester 2	4			4	30		30			
Renewable Energy Sources E 4 30 30	5	Intelligent Heating, Ventilation and Air Conditioning	E		30			30		
Title	6		Е			30				
New Technologies in Water and Wastewater Treatment Biomass Harvesting and Utilization Waste For Material and Energy Recovery Waste Management in Power Industry Waste Management in Brivinonmental Protection Wastewater Protection and Flue Gas Cleaning E										
New Technologies in Water and Wastewater Treatment Simmass Harvesting and Utilization Waste For Material and Energy Recovery Waste Management in Power Industry Waste Management on Flue Gas Cleaning E	7			4	30	30				
Biomass Harvesting and Utilization Waste For Material and Energy Recovery Waste Management in Power Industry 2 30 184 120 60 120 - 454* 4 30 30		*		4	30	30				
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Semester 2 Exam ECTS L T Lab P S	waste Management in Fower industry				101	120	60	120		
Semester 2 Exam ECTS L T Lab P S		Sum	2	30	104	120		120	-	
Atmosphere Protection and Flue Gas Cleaning E 3 15 30					454*					
Atmosphere Protection and Flue Gas Cleaning E 3 15 30		C 4 2	Б	ECTC	T	TD.	T 1	n		
2 Business and Innovation in Environmental Protection 3 Carbon Management in the Environmental Processes 4 30 30 30	1					ı		P	5	
Carbon Management in the Environmental Processes			E				30	1.5		
Energy Conversion Technologies E 4 30 30										
Semester 3 Exam ECTS L T Lab P S			-			20		30		
Industrial Wastewater Technologies Wastewater Treatment Processing Design – Project Waste Heat Management and Energy Efficiency Waste Hea			E							
Wastewater Treatment Processing Design - Project				2	15	15	2.0			
Wastewater Treatment Processing Design - Project 30 30 30	6			4	30		30	• •		
Total Semester 3 Exam ECTS L T Lab P S								30		
Name	7			4	30			30		
Phytoremediation by Energetic Plants 4 30 30 30 30 30 30 30										
Protection of Soil from Environmental Impact Strategies for the International Protection of the Environment Strategies for the International Protection of the Internation Strategies for the Internation of the Internation Strategies for the Internation of the Internation Strategies for the Internation Strategies for the Internation Strategies for the Internation Strategies for the Internation Strategi							30			
Strategies for the International Protection of the Strategies for the International Protection of the Environment 3 30 15	8			4	30	30				
Semester 3 Exam ECTS L T Lab P S								30		
Circular Economy in Environment 2 30 225 90 90 135 -	9			3						
Total 2 30 225 90 90 135 - 450* Semester 3 Exam ECTS L T Lab P S		Environment								
Semester 3 Exam ECTS L T Lab P S		Circular Economy in Environment								
Semester 3 Exam ECTS L T Lab P S 1 Biochar for Advanced Polygeneration 4 30 30 2 Diploma Project 20 3 Diploma Seminar 2 30 4 Interpersonal Communication 1 15 5 Smart Cities 3 30 15 Total 0 30 75 - 30 15 30 Total 15 30 30 30 30 30 Total 15 30		Total	2	20	225	90	90	135	-	
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5 Smart Cities 3 30 15 Total 0 30 75 - 30 15 30	4			1	15					
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	10131		U	30			150			

^{* -} Sumy godzin zajęć w semestrze, uwzględniające obieralność przedmiotów Legend:

 $\begin{array}{lll} L-& Lecture & T-Tutorials \\ Lab-Laboratory & P-& Project \\ S-& Seminar & E-Exam \end{array}$