

Siatka godzin dla kierunku *Inżynieria Środowiska (Environmental Engineering)*

Specjalność: *Environment Protection Engineering*

Studia stacjonarne II stopnia (MSc, anglojęzyczne)

obowiązuje studentów rozpoczynających studia od roku 2024/2025

Nazwa bloku	Lp	Wykaz przedmiotów	Liczba godzin					Liczba godzin w semestrze				
			W	C	L	K	P	Pkt.	I	II	III	IV
	1	Searching and Sharing of Knowledge (HES)		30				2	30			
	2	Reliability, safety and risk of engineering systems		30				2	30			
przedmioty podstawowe	3	Sustainable Development and Management (HES)	15				30	3	45			
	4	Computational Methods in Environmental Engineering	30			15		3	45			
	5	Geostatistics	30	15				3		45		
	6	Environmental Fluid Mechanics	30			15		3	45			
	7	Surface Water Protection	30				15	3	45			
	8	Principles of Soil Diagnostic Techniques	15			15	15	3	45			
	9	Air Pollution Control	30				15	3		45		
	10	Biological Techniques for Environmental Monitoring	30		15			3		45		
	11	Environmental Chemistry II	30		30			4		60		
	12	Environmental Physics	30			15		3			45	
przedmioty kierunkowe i specjalizacyjne	13	Acquisition and Management of Environmental Data	30			15		3	45			
	14	Monitoring of Environment	15				15	2	30			
	15	Scientific Programming and Data Analysis				60		4		60		
	16	Spatial Data Analysis	15			30		3		45		
	17	Applied Climatology	30			15		3	45			
	18	Global Climate Change	30			15		3			45	
	19	Groundwater Protection	15				30	3		45		
	20	Municipal Solid Waste Treatment Technology	30				15	3		45		
	21	Pro-ecological Technologies	15				30	3			45	
	22	Introduction to Remote Sensing of Environment	15			30		3			45	
	23	Irrigation and Drainage	15				30	3		45		
	24	Land Reclamation and Development	15		15		15	3				45
	25	Environmental Risk Assessment	15		30			3				45
	26	Alternative Energy Sources	15				30	3				45
	27	Energy Systems Modelling and Optimization	30			15		3				45
	28	Elective courses (fall)	30				60	6			90	
	29	Elective courses (spring)	30				60	6				90
	30	Diploma seminar (fall)		15				1			15	
	32	Diploma seminar (spring)		15				1				15
	32	MSc Diploma						20			X	X
33	Internship (praktyka zawodowa)					4 tygodnie	6			X	X	
1410	Sumaryczna liczba godzin zajęć dydaktycznych		615	105	90	240	360		405	435	285	285
25	Liczba godzin zajęć dydaktycznych w tygodniu								27	29	19	19
	Liczba punktów w semestrze						120		27	29	32	32
	Semestralna liczba egzaminów							3	3	1	1	
przedmioty obieralne	1	Forecasting of Meteorological Hazards	15				30	3			45	
	2	Biological Hazards and Biodeterioration in Environmental Engineering	15	30				3			45	
	3	Odour Abatement Techniques	15		15		15	3			45	
	4	Environment Protection in Transport Systems	15	15			15	3			45	
	5	Data Bases	15			30		3			45	
	6	Energy Audit of Buildings and Industry	15				30	3			45	
	7	Integrated Waste Management in Urban Areas	15				30	3			45	
		Water safetyplanning	15	30				3			45	
	8	Advanced Chemical Wastewater Treatment Methods	15		30			3				45
	9	Advanced Biological Methods of Wastewater Treatment	15	30				3				45
	10	Elements of Circular Economy in Environmental Engineering	15				30	3				45
	11	Rationalization of Heat and Energy Use	15				30	3				45
	12	Remote Sensing Imagery Processing	15			30		3				45
	13	Urban Climate - Adaptation and Planning	15				30	3				45
14	Planning and Management of Water Resources Systems	15				30	3				45	

po 2 przedmioty do wyboru na semestrze 3 i 4