

Courses on climate science and/or environmental sustainability

Bachelors degree								
Trimester	№	Codes / Discipline Code	Subject code/ Discipline code	ECTS	lectures/seminars	Form of control	Subject cycle/Cycle of disciplines	Cycle Component/ Component Cycle
1st trimester	1	ODEA1201 SAUR 1201	Ornyqty damýdyń áleymettik aspectileri Social aspects of sustainable development	3	1/1	E/E	BP/DB	LCD/VK
2nd trimester	1	ZhEK 1204 VIE 1204	Renewable Energy	5	2/2	E/E	BP/DB	TC/HF
	2	ZhEKPFN 1204 FOIVIE 1204	Jańartylatyn energııa kózderin paidalanýdyń fizıkalyq negizderi Physical Foundations of Renewable Energy Use	5	2/2	E/E	BP/DB	TC/HF
	3	EZhT 1205 ZTE 1205	Ekonomıkagy jasył tekhnologııalar Green technologies in the economy	5	2/2	E/E	BP/DB	LCD/VK
4th trimester	1	EOTTTSZh 2209 TGGREUS 2209	Energy, Energy, Technology, Smart Grids Technologies for Power Generation, Transformation, Distribution, Smart Grids	5	2/2	E/E	BP/DB	LCD/VK
	2	ShGSR 2209 MGVR 2209	Hydropower and Resources Small Hydropower and Water Resources	5	2/2	E/E	BP/DB	TC/HF

	3	EOTTTSZh 2209 TGGREUS 2209	Energy, Energy, Technology, Smart Grids Technologies for Power Generation, Transformation, Distribution, Smart Grids	5	2/2	E/E	BP/DB	TC/HF
	4	EzhTK 2108 EBZh 2108	Ecology and Ecology and Life Safety	5	2/2	E/E	LBP/OOD	TC/HF
	5	ESZh 2213 SNE 2213	Energy Storage Systems	4	1/2	E/E	BP/DB	TC/HF
	6	EBZh 2213 SUE 2213	Energy Management System	4	1/2	E/E	BP/DB	TC/HF
5th trimester	1	BBGE 2214 BBGE 2214	Biomass, biogas, geothermal energy Biomass, biogas, geothermal energy	3	1/1	E/E	BP/DB	TC/HF
	2	KOE 2214 EE 2214	Qorshağan ortanyń energetikasy Ekologicheskaya energetika	3	1/1	E/E	BP/DB	TC/HF
	3	ZhEK 2217 VIE 2217	Jańartylatyn energıa kózderi Restorable energy sources	5	2/2	E/E	BP/DB	TC/HF
6th trimester	1	IN 2303 NI 2303	Nanotechnology EngineeringNanotechnology in Engineering	3	1/1	E/E	BeP/PD	TC/HF
	2	SE 2219 CE 2219	Main Energy Digital Energy	5	2/2	E/E	BP/DB	TC/HF
7th trimester	1	EK 3306 OT 3306	Eńbek qayıpsızdigi Labor Protection	5	2/2	E/E	BeP/PD	TC/HF

	2	OOOIEUT 3308 ETOPPI 3308	Ónerkásiptik objektilderdegi jáne olardyń infraqurylymyndaǵy energıany únemdeitin tehnologıalar Energy-saving technologies at industrial enterprises and their infrastructure	5	1/1	E/E	BeP/PD	TC/HF
	3	EKZhK 3306 EKTS 3306	Ecology, Cyber Ecology, Cyber Security in Transport Systems	5	2/2	E/E	BeP/PD	TC/HF
	4	EEZh 3306 EKES 3306	Ecology, energy and cyber ecology Ecology, cybersecurity in energy systems	5	2/2	E/E	BeP/PD	TC/HF
	5	ZhERKB 3307 KORVIE 3307	Jańartylatyn energıa resurstaryn keshendi baǵalý Comprehensive assessment of renewable energy resources	5	2/2	E/E	BeP/PD	LCD/VK
	6	KET 3308 PSE 3308	Solar Energy Converters	5	2/2	E/E	BeP/PD	TC/HF
	7	EZhEA 3308 EPZE 3308	Energınyń jasyıl energıaǵa aýysýy Energy Transition to "Green" Energy	5	2/2	E/E	BeP/PD	TC/HF
	8th trimester	1	EZS 3312 EZP 3312	Energy Legislation and Policy	5	2/2	E/E	BeP/PD
2		ZhEKPOEZhZh 3313 PEIVIE 3313	Jańartylatyn energıa kózderin paidalana otyryp elektrmen jabdyqtaýdy jobalayıDesign of power supply using renewable energy sources	5	2/2	E/E	BeP/PD	TC/HF

	3	OMBO 3313 EMAVT 3313	Operating Materials and Alternative Fuels	5	2/2	E/E	BeP/PD	LCD/VK
	4	EKS 3312 EZP 3312	Energy and Energy Legislation and Policy	5	2/2	E/E	BeP/PD	LCD/VK
	5	ZhEKPOEZhZh 3313 PEIVIE 3313	Jańartylatyn energua kózderin pırdalana otyryp elektrmen jabdyqtaýdy jobaláy Designing power supply using renewable energy sources	5	2/2	E/E	BeP/PD	TC/HF
	6	KZhESNEZh 3313 OEOSVE 3313	Kún jáne jel elektr stıanalarynyń negizgi energetikalyq jabdyqtary Basic power equipment of solar and wind power plants	5	2/2	E/E	BeP/PD	TC/HF
Total Disciplines			28					