

МИНИСТЕРСТВО ОБРАЗОВАНИЯ И НАУКИ КЫРГЫЗСКОЙ РЕСПУБЛИКИ КЫРГЫЗСКИЙ ЭКОНОМИЧЕСКИЙ УНИВЕРСИТЕТ

им. М.Рыскулбекова

Наименование дисциплины и код:

Лектор	Kadralieva Aisuluu Kanybekovna									
Контактная	0777 099 044, k.aisuluu@mail.ru									
информация:	orrr opp or i, indistruct and internal									
Количество	3 credits									
кредитов:										
Дата:	2 semester 2018-2019									
Цель и задачи	The goal of the subject: to encourage students to understand the specific									
курса	relations between society, nature, human and environment, to give them									
	knowledge about global environmental problems of humanity with the									
	purpose of not only to save but also to improve it.									
	Course objectives:									
	To give students systematic knowledge about interaction between nature									
	and social environment;									
	To teach them how to identify optimal requirements and needs in									
	technology development in order to keep a balance of nature and									
	environment;									
	To teach students to analyse interactions between structural components									
	of society and nature, as well to correlate society development goals									
	with the environmental regularity;									
	To teach students ability to help to make changes in the nature which									
Описание курса	will keep and develop biosphere in the future. The main goal of this course is forming and developing environmental									
Описание курса	thinking of the student, and developing students ability to work on									
	improving quality of environment in their professional and daily life, to									
	provide their own mechanisms on environmental management.									
Пре реквизиты	Without knowledge in math, chemistry and physics understanding of the									
	course is impossible. It all makes nessesary to study biological and other									
	natural, humanitarian science and math.									
Пост реквизиты	After completing the course student should have information about:									
	methods of modeling and assessing ecosystem condition and be able to									
	predict their own impacts from professional activities on environmental									
	processes.									
TC	Ctudent should be one (reafessional commeter size).									
Компетенции	Student should know (professional competencies): - basic principles about interactions among organizms and their									
	environment, including human and nature;									
	- basic principles of general ecology;									
	- basic principles of general ecology, - basic principles of environmental management;									
	- legal norms and regulations about environmental protection in KR;									
	- basic elements of social ecology and demography;									
	- basic rules and methods of environmental monitoring;									
	- natural resource allocation system;									
	- basic techniques and methods of engeenering environmental									
	protection;									

Политика курса	 - basic economic and environmental regulations and payment system for natural resources and environmental protection in KR and abroad; - environmental situation and problems in KR; - basic ways of implementing environmental activities; - to use basic tools of environmental management; - legal norms on protection of flora and founa; The policy of the course is systematization of knowledge about interactions among organizms and their environment, including human, formation of the general principles of the environmental processes as a key option on optimization of human activities in environment to find better way on sustainable and stable development.
3.6	
Методы	Lectures, Work in a small teams, Discussions, Lessons using strategy, Role-playing games of critical thinking, Project works
преподавания: Форма контроля	Current assessement, modules, student-self work, examination.
знаний	
Литература:	1. Korobkin V.N., Predelski L.V., Ecology. 2009
Основная	2. Kulmatov T.N., Ecology. Bishkek 2012
Дополнительная	3. Akimova T.A., Haskin V.V., Ecology: University textbook. – M.:
	Unity, 2010
CPC	Discovering and description of environmental systems. Interaction between ecosystem elements. To draw a table «Defining interaction between organisms according to the classification». To prepare a project: «Influence of car exhaust on environment and population health in Bishkek». 21.11.2018 To prepare a presentation: «Specially protected natural areas and reserves in Kyrgyzstan» Project: «Environmental problems of the lake Issyk-Kul» Project «International cooperation in the field of environmental protection» 12.12.2018 Project «Principles of solving global environmental problems («ozone holes», «greenhouse effect», «acid rains»). Perspectives of developing alternative energy sources. (Report) Project «Environmental problems in a big cities and their growing. The problems of vehicles».
Примечание.	

Theme plan of the course in calendar

	_				Num	Literature	Control	
$N_{\underline{0}}$	Date	Lessons topics				of		form
					hours			
	5.09.18	Module 1. Gene	eral ecol	logy.		1.	Quiz	
1		Introduction.	The	subject	of		Korobkin	

		environment, structure and objectives. Main environmental terms.	2	V.N., Predelski	
		Consistency.		L.V.,	
2	7.09.18	Organism as a holistic system. The levels of biological organization. Organisms system and Earth biota.	2	Ecology. 2009 2.	Quiz
3	12.09.18	Organism and environment interaction. Environment. Environment factors. General regularity of abiotic factors. General regularity of biotic factors. Limiting factors. The biomass resources as environmental factors.	2	Kulmatov T.N., Ecology. Bishkek 2012 3. Akimova	Quiz
4	19.09.18	Population. Static and dynamic parameters of population. Life expectancy. Dynamic of population growth. Environmental strategy of survival.	2	T.A., Haskin V.V., Ecology: University	Quiz
5	21.02.18	Biotic community. The specific structure of biocenosis. Spatial structure of biocenosis. Ecological niche.	2	textbook. - M.: Unity, 2010	Quiz
6	26.09.18	Ecosystem lifestyle. Organization (structure) of ecosystems. Ecosystem energy. Productivity of ecosystems and biomass.	2	4. Tihonov A.I., Environm ental	Quiz
7	3.10.18	Dynamic and development of ecosystems. Successions. Sustainability of ecosystems.	2	problems: Lectures. – Ivanovo,	Question
8	5.10.18	Biosphere doctrine. Biosphere as a global ecosystem of the Earth. Biosphere extension and borders. The lifecycle in nature.	2	2002.	Question -answer
9	10.10.18	Natural ecosystems of the Earth. Classification of natural biosphere on a landscape basis. Ground ecosystems. Fresh-water ecosystems. Sea acosystems. Whole biosphere as a global ecosystem.	2		Quiz
10	17.10.18	The main directions of the biosphere evolution. Noosphere as a new stage of biosphere's development.			Quiz
11	19.10.18	Human ecology. Biosocial nature of human and environment. Human and population. Nature resources as a limiting factors of human survival.	2		Question -answer
12	24.10.18	Anthropogenic ecosystems. Man and ecosystems. Agricultural ecosystems. Industrial and urban ecosystems.	2		Quiz

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13	31.10.18	Environment and man's health. Influence of natural and environmental factors on the man's health. Influence of socioenvironmental factors on man's health. Hygiene and man's health.	2		Control writing
14	02.11.18	Module 2. Applied ecology. Environmental crisis. Indicators of environmental crisis. Global environmental problems.	2		Quiz
15	07.11.18	Anthropogenic impacts on biosphere. Anthropogenic impacts on atmosphere. Environmental impacts of atmosphere pollution.	2	5. Voronkov N.A., General,	Quiz
16	14.11.18	Anthropogenic impacts on hydrosphere. Hydroshere pollution. Environmental influence on hydrosphere pollution.	2	social and applied ecology: Textbook	Quiz
17	16.11.18	Anthoropogenic influence on lithosphere. Soil degeneration and consequences.	2	for students. M.: Agar,	Lecture
18	21.11.18	Anthropogenic infulence on biotic communities. Environmental functions of forests. Anthropogenic influence on forests.		2008. 6. Petrov K.M. General	Quiz
19	28.11.18	Importance of wildlife in biosphere. The reasons of wildlife depopulation.	2	ecology. 2008.	Quiz
20	30.11.18	Special and extreme influences on biosphere. Environment pollution by waste production and consumption. Noice impact. Impact of radiation and electromagnetic influence. Extreme influence on biosphere.	2	7. U.Odum, Ecology. M.: 2007. 8. Stepanovs kih A.S. «General ecology» M.:2009.	Quiz
21	05.12.18	Module 3 Environment and environmental protection. Basic principles of environmental protection and rational nature management. Environmental regulation.	2	9. Mavrishev V.V. «General	Interview
22	12.12.18	Engeenering environmental protection. Atmosphere, hydrosphere, litosphere and biomass protection.	2	ecology basics» Minsk,	Interview
23	14.12.18	Special and extreme influences protection. Protection of environment from pollution by waste production and consumption. Protection from noice influence. Protection from	1	2008. 10. Vernandsk yi V.I.	Interview

	radiation	and	electromagnetic		Biesphere,	
	influence.				different	
					publicatio	
					ns.	
		•	Total hours:	45		
				hours		

Student's individual work

No	Weeks	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Points
	Months	Oct	ober	November					December									
1	Current	15				15				10						40		
	control																	points
2	SIW	22.1	10 - 2	6.10		26.	12 –	30.1	2.	2013	8г.	10.12	2 - 14	1.12	201	8г.		
	deadlines.	201	8г.															

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Примечание: График проведения рубежного и итогового контроля устанавливается Учебным отделом.

^{*}СРС – самостоятельная работа студентов.