


 APPROVED
 Dean of the faculty Biology and
 Biotechnology Kurmanbayeva M.
 « 2023г.

ROADMAP of the Faculty of Biology and Biotechnology on educational work within the SDGs

№	Department	Date	Activity	Sustainable Development Goals, Aim	Responsible (full name, position)	Report (publication link)
1.	Department of Biotechnology	9.10.-13.10.2023	Biotechnologists have come up with unique recipes for nutritious dairy products 2.Educational event: Will GMOs Save the World from Hunger?	SDG 2. ERADICATING HUNGER Purpose: Development of unique recipes for nutritious dairy products OR: Innovative technique of unique recipe for creation of nutritious dairy products will be proposed SDG 2. ERADICATING HUNGER The goal is to increase	Kistaubaeva A.S. head of the department, acting professor	link to www.kaznu.kz <i>Publishing</i>

				<p>knowledge of risk criteria for GMOs or their positive effects, and to address hunger eradication.</p> <p>To direct scientific interest to the problem of Zero Hunger and find ways to solve the problem.</p> <p>RR: Building scientific interest in hunger eradication and biotechnology solutions and the ability to analyze, systematize current understanding of GMO biosafety</p>	<p>Mukhataeva K.A. senior lecturer, Department of Biotechnology</p> <p>Ultanbekova G.D. acting associate professor of department of biotechnology</p> <p>Atabaeva S.D. Professor of the Department of Biotechnology</p>	<p>link to www.kaznu.kz</p> <p><i>Publishing</i></p>
		23.10.-27.10.2023	<p>Round table:</p> <p>Professions of the future: Biotechnology and Bioengineering.</p> <p>Excursion at the Research Institute of Plant Biology and Biotechnology</p>	<p>SDG 8. DECENT WORK AND GROWTH</p> <p>The goal is to form an idea of the prospects for development and professional growth in the field of biotechnology and bioengineering, to</p>	<p>Turasheva S. K. acting professor of department of biotechnology</p> <p>Ernazarova G.I. acting professor of Department of Biotechnology</p>	<p>link to www.kaznu.kz</p>

				<p>acquaint students with priority projects of "green technologies" and projects of the future.</p> <p>OR: Students will know in what economically promising areas of biotechnology and bioengineering they will be able to realize their professional qualities, improve their skills and achieve career development</p>		
		6.11.-10.11.2023	1.Educational event (discussion) on the theme: "Effective development of the agro-industrial complex".	<p>SDG 2: ENDING HUNGER</p> <p>Purpose: Discussion of problems of agro-industrial complex and search of ways of their solution.</p> <p>OR: 1. Interpretation of problems of agro-industrial complex; 2. formation and scientific substantiation to the problem of elimination of hunger and search for the solution of problems</p>	Shoinbekova S.A. Professor of Department of Biotechnology	link to www.kaznu.kz

			<p>2.Round table:</p> <p>State regulation of the organic market in Kazakhstan</p>	<p>by increasing the efficiency of agriculture.</p> <p>SDG2. ERADICATING HUNGER</p> <p>Purpose - assessment of the state and prospects of expansion of the market of organic products in Kazakhstan</p> <p>OR: To form an idea of the possibilities of transition to organic farming in Kazakhstan and to analyze the state of agricultural production to date</p>	<p>Ultanbekova G.D., acting associate professor of department of biotechnology</p> <p>Mukhataeva K.A., senior lecturer, Department of Biotechnology</p>	<p>link to www.kaznu.kz</p> <p><i>Publishing</i></p>
		20.11.-24.11.2023	<p>1. Tour. Museum of KazNMU named after. S.D. Asfendiyarova.</p>	<p>SDG 3: HEALTHY LIFESTYLES AND WELL-BEING _</p> <p>The goal is to create an idea of a healthy lifestyle and its impact on the preservation of human health</p> <p>OR:</p> <p>Will have information about the consequences of bad habits and unhealthy lifestyles for</p>	<p>Kaiyrmanova G. K. senior lecturer of biotechnology department</p>	<p>link to www.kaznu.kz</p>

			<p>2. Discussion seminar with students on the topic: "Good nutrition as a way of life"</p>	<p>the health and life itself.</p> <p>SDG 3: HEALTHY LIFESTYLES AND WELL-BEING</p> <p>The goal is to acquaint students with the basic criteria of a correct way of life.</p> <p>OR: Students will understand the need to introduce into their lives elements of sports and good eating habits.</p>	<p>Atambayeva Sh.A., professor of biotechnology department</p>	<p>link to www.kaznu.kz</p>
		4.12.-8.12.2023	<p>Panel discussion on "We are what we eat"</p>	<p>SDG 3: HEALTHY LIFESTYLES AND WELL-BEING</p> <p>The goal is to develop with students a scientific substantiation of the thesis "Healthy eating is a healthy life, and also a healthy nation."</p> <p>OR: Discuss healthy diets, why eating right is a set of good eating habits, a lifestyle, not a weight loss diet, and what you need to do to improve the way your</p>	<p>Karpenyuk T. A., Professor of Department of Biotechnology</p> <p>A.V. Goncharova, Associate Professor, Department of Biotechnology</p>	<p>link to www.kaznu.kz</p>

				population lives and the quality of your food.		
		18.12.-22.12.2023 15.01.-19.01.2024	Discussion platform on the topic: Biogas is a natural energy source	SDG 7. AFFORDABLE AND CLEAN ENERGY Objective: To justify the production of biogas as an alternative source of energy, which allows them to be fully processed into energy and fuel in order to reduce the burden on the budget and increase the prestige of agriculture Expected results: Formation of aspiration of young biotechnologists to develop new technologies for obtaining alternative energy sources	Atabaeva S. D., Professor of Department of Biotechnology	link to www.kaznu.kz

		29.01.-02.02.2024	Round table: <i>Sudyn da surauy bar.</i>	<p>SDG 6. CLEAN WATER AND SANITATION</p> <p>The goal is to use water properly and keep it clean</p> <p>OP: Development of methods of proper use of water resources and maintenance of their purity</p>	<p>Sydykbekova R.K. senior lecturer of the Department of Biotechnology</p> <p>Berzhanova R.Zh., Associate Professor of Biotechnology Department</p>	link to www.kaznu.kz publication
		12.02.-16.02.2024	<p>Discussion platform on the topic:</p> <p>GMOs are for and against. (Role play).</p>	<p>SDG 2. ERADICATING HUNGER</p> <p>The purpose - formation of theoretical knowledge on criteria of risks or positive influence, in connection with the use of GMOs, their importance for the human body, current trends in the rationalization of population nutrition and environmental ecology.</p> <p>OP: Interpret research by nutrition-focused</p>	<p>Voronova N. V. Senior Lecturer, Department of Biotechnology</p> <p>Mamytova N.S., acting associate professor of department of biotechnology</p>	link to www.kaznu.kz

			<p>2. Discussion platform on "TB prevention".</p>	<p>scientists to analyze the health outcomes of GMPs.</p> <p>SDG 3: HEALTHY LIFESTYLES AND WELL-BEING</p> <p>Purpose: to increase awareness of young people in the prevention of tuberculosis, the formation of a desire for a healthy lifestyle.</p> <p>OP: Introduction to different methods of TB prevention and prevention.</p>	<p>Asrandina S.S. acting professor</p>	<p>link to www.kaznu.kz</p>
		26.02.-01.03.2024	<p>1. Round table: Reducing maternal and newborn mortality</p>	<p>SDG 3: GOOD HEALTH AND WELL-BEING</p> <p>The goal is to familiarize students with the program aimed at reducing maternal and infant mortality through the introduction of modern approaches with proven effectiveness.</p> <p>AR: The methodology for accounting for infant</p>	<p>Omirbekova A. A. senior lecturer, Department of Biotechnology</p>	<p>link to www.kaznu.kz</p>

			<p>2. Discussion seminar on the theme: Scarcity of drinking water. Global experience in water conservation.</p>	<p>and maternal deaths, the main; the main causes of these deaths and ways to reduce them will be considered</p> <p>SDG 6. CLEAN WATER AND SANITATION</p> <p>The aim is to acquaint students with innovations in water supply and water conservation. OP: Understand the need to implement water-saving technologies that allow more efficient use of water resources.</p>	<p>Atambaeva Sh. A., Professor of Biotechnology</p>	<p>link to www.kaznu.kz</p>
		11.03.-15.03.2024	<p>Round table: Meeting with graduates of the Faculty of Biology and Biotechnology.</p>	<p>SDG 8. DECENT WORK AND GROWTH</p> <p>Purpose - formation of students' desire for professional growth</p> <p>OR: to know where graduates of this educational program can be in demand</p>	<p>Kaiyrmanova G. K. senior lecturer of Department of Biotechnology</p>	<p>link to www.kaznu.kz</p>

		25.03.-29.03.2024	<p>Round table: Eradicating poverty through modern biotechnology</p>	<p>SDG 1: ERADICATION OF POVERTY</p> <p>The goal is to improve the well-being and protection of our planet, and to tackle a range of issues in the fight against climate change and environmental protection</p> <p>RA: Building the capacity to use agricultural lands with environmental shocks and disasters and natural resources using new biotechnological methods</p>	<p>Sydykbekova R. K. senior lecturer of Department of Biotechnology</p> <p>Berzhanova R.Zh., Associate Professor of Biotechnology Department</p>	<p>link to www.kaznu.kz publication</p>
		8.04.-12.04.2024	<p>Round table: "Working in Science: An Inside Look"</p> <p>Meeting with graduates of the Faculty of Biology and Biotechnology</p>	<p>SDG 8. DECENT WORK AND GROWTH</p> <p>The goal is to prove that modern science is a good career choice for young people</p> <p>OR: to identify the pros and cons of work in</p>	<p>Karpenyuk T. A., Professor of Department of Biotechnology</p> <p>Honcharova A.V., associate professor, Department of Biotechnology</p>	<p>link to www.kaznu.kz</p>

				science, ways to realize their professional qualities and achieve career development,		
		22.04.-26.04.2024	Round table: Clean water is a source of life	<p>SDG 6. CLEAN WATER AND SANITATION</p> <p>The goal is to draw students' attention to the analysis, assessment of water resources, efficient use and protection of water sources from pollution.</p> <p>OR: Understanding the importance of clean water in human life, the need to assess and use water efficiently, and how to protect water resources from different types of pollution.</p>	<p>Abdieva G. Zh. Associate Professor of Biotechnology</p> <p>P.S. Ualieva, Associate Professor, Department of Biotechnology</p>	link to www.kaznu.kz
		20.05.-25.05.2024	Round table: <i>"Bir tal Kessen, he was thael ek..."</i>	<p>SDG 15. CONSERVATION OF LAND ECOSYSTEMS</p> <p>The goal is to substantiate knowledge about the prospects of biologization of</p>	<p>N.R. Akmukhanova, Associate Professor, Department of Biotechnology</p> <p>Bektileuova N. K. senior lecturer of the Department</p>	www.kaznu.kz site

			<p>2.Round table. Conservation and restoration of forests</p>	<p>agriculture, scientific research in this field. OR: Developing the desire of young people to protect the environment and promoting their rational use</p> <p>SDG 15. CONSERVATION OF LAND ECOSYSTEMS</p> <p>The objective is to provide evidence of the protection and restoration of terrestrial ecosystems and to promote their sustainable use, sustainable forest management, combating desertification, OP: Building knowledge on environmental protection and conservation and combating desertification.</p>	<p>of Biotechnology</p> <p>Mamytova N. S., acting associate professor of department of biotechnology</p>	<p><i>www.kaznu.kz</i> site</p>
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1.	Department of molecular biology and genetics	9.10.-13.10.2023	<i>Scientific seminar</i> «Eliminating hunger, achieving food security and developing sustainable agriculture»	Goal 2: Zero Hunger. <i>Aim</i> – introduce methods for diagnostics of viral plant diseases and selection of resistant plant forms.	Yrgynbayeva Sh.M., acting associated professor	farabi.university news link
		23.10.-27.10.2023	<i>Scientific seminar</i> «CRISPR gene editing technology. CRISPR technology as a genetic engineering tool»	Goal 2: Zero Hunger. <i>Aim</i> – develop an understanding of the potential benefits and risks associated with CRISPR and the creation of genetically modified organisms to eliminate hunger	Zhumabayeva B.A. associated professor	farabi.university news link
		6.11.-10.11.2023	<i>Scientific seminar</i> «Innovations in diagnosis and treatment of diseases»	Goal 3: Ensure healthy lives and promote well-being for all at all ages. <i>Aim</i> – introduce international and national experience in the diagnosis and treatment of various diseases	Yrgynbayeva Sh.M., acting associated professor Zhusupova A.I., senior lecturer	farabi.university news link
		20.11.-24.11.2023	<i>Scientific seminar</i> «Introduction of new technologies to address sustainable development goals in the field of agriculture and ecology»	Goal 2: Zero Hunger Goal 6: Ensure access to water and sanitation for all Goal 15: Life on land <i>Aim</i> – introduce methods and technologies aimed at increasing productivity, product quality and economic efficiency in agriculture and the	Yrgynbayeva Sh.M., acting associated professor	farabi.university news link

				environment		
		27.11–02.12.2023	<i>Scientific seminar</i> «Evolution of marine mammals and ways to preserve their diversity»	Goal 14: Conserve and sustainably use the oceans, seas and marine resources <i>Aim</i> – creating a holistic picture of the origin and evolution of marine mammals, their diversity and importance for the ecosystem.	Suvorova M.A., senior lecturer	farabi.university news link
		4.12.-8.12.2023	<i>Scientific seminar</i> «Principles of treating hereditary diseases for sustainable development. Symptomatic, pathogenetic, etiologial treatment»	Goal 3: Ensure healthy lives and promote well-being for all at all ages.. <i>Aim</i> - develop an understanding of the principles of treatment of hereditary diseases	Kalimagambetov A.A., senior lecturer	farabi.university news link
		18.12.-22.12.2023	<i>Scientific seminar</i> «The use of genetic engineering in solving environmental problems»	Goal 2: Zero Hunger.. <i>Aim</i> – introduce the prospects for using genetic engineering to combat environmental problems	Yrgynbayeva Sh.M., acting associated professor	farabi.university news link
		15.01.-19.01.2024	<i>Scientific seminar</i> «Design of bacteriophage endolysins to create antibiotics for fish»	Goal 14: Conserve and sustainably use the oceans, seas and marine resources <i>Aim</i> – introduce the latest scientific developments in the field of creating antibiotics	Bisenbayev A.K., professor Zhusupova A.I., senior lecturer	farabi.university news link

		29.01.-02.02.2024	<i>Scientific seminar</i> «Gene pool of legumes and pumpkin crops on the way to achieving sustainable development goals»	Goal 2: Zero Hunger. Goal 15: Life on land. <i>Aim</i> - present current research and data on the gene pool of legumes and cucurbits to determine their biodiversity and potential for sustainable development.	Aitasheva Z.G., professor	farabi.university news link
		12.02.-16.02.2024	<i>Scientific seminar</i> «Preparation and characterization of nanoantibodies against the rabies virus»	Goal 3: Ensure healthy lives and promote well-being for all at all ages. Goal 15: Life on land. <i>Aim</i> – introduce the latest scientific developments in the field of creating antibiotics	Bisenbayev A.K., professor Zhusupova A.I., senior lecturer	farabi.university news link
		19.02-24.02.2023	<i>Scientific seminar</i> «Fish as an objects for experimental assessment of the quality of the aquatic environment»	Goal 14: Conserve and sustainably use the oceans, seas and marine resources <i>Aim</i> – introduce the latest methods and markers of using fish as test objects when assessing the quality of aquatic ecosystems	Suvorova M.A., senior lecturer	farabi.university news link
		26.02.-01.03.2024	<i>Vebinar</i> «Development of biotechnological methods for recovery from viral and bacterial infections of fruit and berry crops in vitro»	Goal 2: Zero Hunger. Goal 15: Life on land. <i>Aim</i> – provide up-to-date information on existing biotechnological methods and approaches	Zhusupova A.I., senior lecturer	farabi.university news link

				to the improvement of fruit and berry crops from viral and bacterial infections		
		11.03.-15.03.2024	<i>Scientific seminar</i> «Clean water: a key resource for life»	Goal 6: Ensure access to water and sanitation for all. <i>Aim</i> – introduce current data and research on the state of water resources and problems associated with their pollution.	Lovinskaya A.V., associated professor	farabi.university news link
		25.03.-29.03.2024	<i>Scientific seminar</i> «Examination of food products obtained from genetically modified sources»	Goal 2: Zero Hunger. Goal 3: Ensure healthy lives and promote well-being for all at all ages. <i>Aim</i> – introduce modern methods and technologies for testing food products for the presence of GMOs.	Omirbekova N.Zh. associated professor	farabi.university news link
		8.04.-12.04.2024	<i>Vebinar</i> «Recommendations on grants and scientific collaborations for a young researcher»	Goal 9: Build resilient infrastructure, promote sustainable industrialization and foster innovation. <i>Aim</i> – introduce a young researcher to the possibilities of searching and establishing contacts and grant projects in the scientific world, including postdoctoral studies	Zhusupova A.I., senior lecturer	farabi.university news link
		22.04.-26.04.2024	<i>Scientific seminar</i> «Application of	Goal 2: Zero Hunger. Goal 15: Life on land.	Dosybayev K.Zh., senior lecturer,	farabi.university news link

			molecular genetics tools in studying the genetic potential of livestock crops in Kazakhstan»	<i>Aim</i> – provide up-to-date information on existing biotechnological methods and approaches to the existing genetic diversity and population genetic studies of livestock crops in Kazakhstan	Zhusupova A.I., senior lecturer	
		6.05.-10.05.2024	<i>Scientific seminar</i> «The influence of the environment and pollution on the spread of cancer»	Goal 3: Ensure healthy lives and promote well-being for all at all ages. <i>Aim</i> – to form an understanding of the importance of research on the impact of environmental pollution on the development and spread of cancer.	Kolumbayeva S.Zh, professor	farabi.university news link
		20.05.-25.05.2024	<i>Scientific seminar</i> «Study of polymorphism of antioxidant defense and immune response genes in people exposed to xenobiotics for a long time»	ЦУР 3: Хорошее здоровье и благополучие. <i>Aim</i> – to form an understanding of the importance of research on the effects of environmental pollution on the body’s immune system	Zhusupova A.I., senior lecturer	farabi.university news link
2.	Department of biophysics, biomedicine and neuroscience	16.10.-20.10.2023 Throughout the year, access to Google disc for yoga classes	Anti-stress-Relax Program Yoga practices to restore health	Realizing the SDG 3. Objective: To develop skills for self-psychological well-being.	Tormanova A.N. Curator of the 2nd course,	Link to Google disk for access throughout the year Photo report of the program presentation

		16.10.2023		<p>development and sustainable lifestyles, human rights, gender equality, promoting a culture of peace and non-violence, citizenship of peace and awareness of the value of cultural diversity and the contribution of culture to sustainable development.</p> <p>Expected results:</p> <p>Increased stress tolerance in students.</p>	7M015504 Biology (Master's Degree)	www.kaznu.kz
		30.10.-03.11.2023 31.10.2023	<p>Training seminar for students on EP Neuroscience topic: "Healthy lifestyle and its components"</p>	<p>Realization of SDG 3</p> <p>Aim: Formation of healthy lifestyle skills among students.</p> <p>The expected results are an increase in vital activity aimed at a complete change in previous habits concerning food, physical activity and rest, the formation of the level of knowledge of students, the creation of</p>	Kenzheyeva Zh.K., adviser 1 course of Neuroscience 7M05113	<p>Workshop script, photo report in infographic on www.kaznu.kz</p>

				a personal action plan for healthy lifestyle		
		13.11.-17.11.2023 13.11.2023	Training seminar for students on EP Biomedicine topic: «Prevention of addiction from psychoactive substances and gambling»	Realising the SDG 3 <i>Objective:</i> Ensuring a healthy lifestyle and promoting well-being for everyone at any age. <i>Expected results:</i> Create and conduct an information and preventive event to increase awareness and level of risk awareness, associated with substance dependence and gambling addiction, and also provide participants with resources, skills and knowledge for effective prevention and support for persons susceptible to these types of addiction.	Yessenbekova A. Y. Advisor 3 course, 6B05108-Biomedicine	Workshop script, photo report in infographic on www.kaznu.kz
		27.11.-01.12.2023 01.12.2023	Training seminar for undergraduates on EP Biomedicine topic: "What you need to know about	Realising the SDG 12 <i>Objective:</i> To raise awareness on HIV prevention.	Ablaikhanova N. T. Duisenbek A.A Advisor 1 course, 7M05102-Biomedicine	Workshop script, photo report in infographic on www.kaznu.kz

			HIV/AIDS"	<p><i>Expected results:</i> Increasing the level of awareness of students regarding their own health, relationships with the opposite sex, increasing the level of knowledge about the prevention of HIV infection.</p>	(master's degree)	
		<p>11.12.-15.12.2023</p> <p>11.12.2023</p>	<p>Training seminar for undergraduates on EP Biomedicine topic:</p> <p>"Nature conservation. Environmental safety"</p>	<p>Realising the SDG 15.</p> <p><i>Goal:</i></p> <p>Formation of the concept of "ecosystem", disclosure of the ecological foundations of the formation and maintenance of the ecosystem, understanding the meaning of the cycle in nature. To continue the development of the ability to think analytically, compare, generalize, maintain interest in the study of objects and phenomena of nature, the development of skills of independent research activity.</p>	Ashirova Zh.B.	<p>Workshop script, photo report in infographic on www.kaznu.kz</p>

				<i>Expected results:</i> to determine the ways of interaction between man and nature, the influence of nature on human health and emotional state; to formulate rules of behavior in nature.		
		8.01.-12.01.2024 08.01.2024	Training seminar for students on EP Biomedicine Topic: “Health and longevity - through healthy eating”	Realising the SDG 3. Goal: Formation of healthy eating skills among students. Expected results: improvement of healthy eating skills among students.	Yeshmukhanbet A.N. Kairat B.K. Advisor 2 course, 7M05102-Biomedicine (master's degree)	Workshop script, photo report in infographic on www.kaznu.kz
		22.01.-26.01.2024 25.01.2023 16:00-17:00	Training seminar for students on EP Neuroscience Topic: «In a healthy body - a healthy mind»	Realising the SDG 3. <i>Goal:</i> Increasing motivation among students to maintain a healthy lifestyle <i>Expected results:</i> improvement of healthy lifestyle skills among students.	Yessenova M.A. Kulmurzaeva L.R.	Workshop script, photo report in infographic on www.kaznu.kz
		07.02.2024	Training seminar for undergraduates on EP Biology topic:	Realising the SDG 14. <i>Purpose:</i> Conservation and rational use of	Ursheeva B. I.	Workshop script, photo report in infographic on www.kaznu.kz

			"Measures to prevent pollution of the marine ecosystem caused by human activity"	oceans, seas and marine resources in the interests of sustainable development <i>Expected results:</i> formation of students' skills in the protection and prevention of marine ecosystems		
		19.02.-23.02.2024 19.02.2023	Training seminar for students on speciality Neuroscience. Theme: "Lifestyle and Health"	Realising the SDG 3 <i>Goal:</i> Formation of healthy lifestyle skills among students. <i>Expected results:</i> increasing the level of knowledge of students, creating a personal plan of healthy lifestyle activities	Shvetsova E.V., Advisor 2 course, 6B05109-Neuroscience	Workshop script, photo report in infographic on www.kaznu.kz
		4.03.-8.03.2024 04.03.2024	Training seminar for master's students of the "Biology" programme on the theme: "Biospheric role of mind"	Realising the SDG 12 <i>Objective 12:</i> Ensure a shift towards sustainable consumption and production patterns <i>Expected results:</i> Increased awareness and knowledge of master's students on the environmentally sound management of	Kulbaeva M.S.	Workshop script, photo report in infographic on www.kaznu.kz

				chemicals and all wastes throughout their life cycle in accordance with agreed international principles and significantly reduce their release into air, water and soil to minimise their negative impact on human health and the environment.		
		1.04.-05.04.2024 01.04.2024	Training seminar: "Assessment of effective ways to get rid of the poverty line while preserving ecosystems and biological diversity"	Realising the SDG 15 <i>Objective:</i> Assessment of the natural value of the environment <i>Expected results:</i> Graduate students will learn to protect the environment, preserve biodiversity, and count according to their growing number. Considers effective ways to get rid of poverty.	Basygaraev Zh. M.	Workshop script, photo report in infographic on www.kaznu.kz
4	Department of Biodiversity and Bioresources	16.10.-20.10.2023	Study and conservation of the Caspian seal in the Kazakh part of the Caspian Sea.	Realizing the SDG – 14 Purpose; to consider the problems and ways of studying and preserving the kaskiy seal, an	1st year doctoral student of the program" Fisheries and commercial fisheries" Baimukanova A.M.	Link on the website of the department and faculty

				<p>endemic species of dalgiz found in the Kaisp sea</p> <p>Expected result; awakening to humanity the compassion of society as a whole for living beings in marine ecosystems</p>		
		30.10.-03.11.2023	<p>Coleoptera insects (Insecta, Coleoptera) Katon-Karagai State National Natural Park.</p>	<p>Цып 15.</p> <p>Purpose; protection, restoration and promotion of rational use of land ecosystems</p> <p>Expected result;</p> <p>Familiarization of students, undergraduates, doctoral students with the diversity of insects in the terrestrial ecosystem, ways and problems of reproduction</p>	"8D05101 - Biology" BB programmasyn 2nd year doctoral students Gabdullina A.U.	Link on the website of the department and faculty
		13.11.-17.11.2023	<p>Prevention of reproductive health</p>	<p>Цып 3.</p> <p>The goal is to prevent colds. Familiarization with the ways to avoid diseases such as Arvi, Arvi, covid, flu, etc</p>	Mamurova Asem Tleuzhanova PhD assoc. Professor of the Department of Biodiversity and Bioresources.	Link on the website of the department and faculty

				Expected result; Familiarization of students with the types of diseases that occur due to changes in the weather		
		27.11.-01.12.2023	Disease prevention is the first step on the path to health"	Цып 3. The goal is to familiarize with the most common types of diseases in society, ways to prevent diseases, and show ways to prevent seasonal diseases Expected result; Students, undergraduates, doctoral students get acquainted with the measures to cure diseases of humanity as a whole	Mamurova Asem Tleuzhanovna K. B. N Assoc. Professor of the Department of biorasnoobrasia and Bioresources. PhD 1st year "geobotany" Kairanova Gulzat Kanatovna.	Link on the website of the department and faculty
		11.12.-15.12.2023	Solving the urgent problem of sand migration in the desert valley	Цып 15. The goal is to familiarize the Republic of Kazakhstan with measures to combat the unique ways of sand migration, the most pressing problem in desert zones Expected result; To explain to the public	Nurmakhanova A.S. PhD, ass.professor Undergraduates Biology	Link on the website of the department and faculty

				the problems of landscaping and sand migration of desert habitats		
		8.01.-12.01.2024	Meeting with documentary filmmaker Ekaterina Suvorova. Screening of the film "Tomorrow is the sea"	Цып 15. Objective: to discuss the current problem of the world in the world, the regression process of the Seas, the possibility of changing the biolavidity of animals, and measures to solve them Expected result; A thorough explanation of the problems of the sea to the human mind.	1st year doctoral student of the program " Fisheries and commercial fisheries " Baimukanova A	Link on the website of the department and faculty
		22.01.-26.01.2024	Art and science. How can scientists work with artists in Kazakhstan?	ЦYP - 4 To reflect on the common problems of scientists and artists of Kazakhstan, the goals and results of their union. Expected result; Acquaintance with the interests of scientists and artists	1st year doctoral student of the program" Fisheries and commercial fisheries " Baimukanova A	Link on the website of the department and faculty
		5.02.-09.02.2024	The role of vitamins in health promotion	Цып 3. The goal is to familiarize yourself with	Mamurova Asem Tleuzhanovna K. B. N	Link on the website of the department and faculty

				<p>the types of vitamins in health promotion. Harmful and useful vitamins.</p> <p>Expected result;</p> <p>Student, master's student, doctoral student to provide information about the benefits and harms of vitamins for humanity as a whole</p>	<p>Assoc. Professor of the Department of biorasnoobrasia and Bioresources.</p>	
		19.02.-23.02.2024	<p>Recycling of raw materials is the driving force of the global economy</p>	<p>ЦҮҮР 12 Purpose; to acquaint students with the ways of processing and burning raw materials. Expected result; Students receive information on the use of raw materials source unem and secondary consumption.</p>	<p>Zaparina E.G. teacher, curator of the 2nd year of the group "6B05102 Biology"</p>	<p>Link on the website of the department and faculty</p>
		4.03.-8.03.2024	<p>Problems of biodiversity conservation in the conditions of the small Aral</p>	<p>ЦҮҮР 15. Purpose; discussion of the global problem of Conservation, Research and protection of biodiversity of the Aral Sea</p> <p>Expected results; students,</p>	<p>Senior lecturer Kozhabaeva E.B.</p>	<p>Link on the website of the department and faculty</p>

				undergraduates, doctoral students will get acquainted with the ways of solving the problem of the Aral Sea.		
		18.03.-22.03.2024	Problems of modernization of Kazakh national medicine	<p>Цып 3. Purpose; familiarization with therapeutic measures, methods of application and teaching customs.</p> <p>The expected result; the revival of a forgotten custom</p>	Doctoral student 1 year doctoral student of the program " Fisheries and commercial fisheries "	Link on the website of the department and faculty
		1.04.-05.04.2024	Conservation of aquaculture in the Aral Sea	<p>Цып 15. Purpose; to familiarize with the problems of biodiversity and ecosystem formation with the help of aquaculture in the conditions of the Aral Sea.</p> <p>Expected result;</p> <p>Introduction to the development of aquaculture in the Aral Sea</p>	Senior lecturer Kozhabaeva E.B.	Link on the website of the department and faculty
		15.04.-19.04.2024	Restoration of the ecosystem of the drained bottom of the	Цып 15 Purpose; to familiarize with the problems of restoring the ecosystem at the	Senior lecturer Kozhabaeva E.B.	Link on the website of the department and faculty

			Aral Sea	drained bottom of the Aral Sea. Expected result; "I don't know," he said.		
		29.04.-03.05.2024	Study and conservation of rare and endangered animals, on the example of the steppe eagle (<i>Aquila nipalensis</i>)”	ЦҮҮ 15. Purpose; familiarization with research works designed to protect rare animals, increase the number Expected result; Providing public information about the steppe eagle (<i>Aquila nipalensis</i>)	2nd year doctoral student of the EP" 8d05101-Biology " Akentyeva E. V.	Link on the website of the department and faculty
		13.05.-17.05.2024	The use of logical problems in biology efficiency	ЦҮҮ - 4 Purpose; use of logical problems in biology share the results of research on the effectiveness and benefits Expected result; familiarization of future teachers with the methods and methods of using logical problems	3rd year doctoral student of the program" Fisheries and commercial fisheries " Ibraeva G. S.	Link on the website of the department and faculty
		27.05.-31.05.2024	Mastering the technology of growing valuable aquaculture	ЦҮҮ 15. Purpose; introduction to topical	2nd year doctoral student of the program" Fisheries	Link on the website of the department and faculty

			objects	issues and solutions in the field of aquaculture. Introduction to valuable objects grown in aquaculture. Expected result; Get acquainted with information on the development of technology for growing valuable aquaculture objects	and commercial fisheries " E. B. Kegenov	
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