



APPROVED by:  
Dean of the Faculty of Forestry,  
Wildlife and Environment  
D.N. Sarsekova

2021

## **DEVELOPMENT PLAN OF EDUCATION PROGRAM «SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES»**

### **Analytical justification of the program. Information about the educational program**

The main goal of the educational program “Sustainable Natural Resources Management” is to train highly educated postgraduate specialists who are competitive in the modern labor market in the field of sustainable natural resources management and are able to solve problems of any level within this framework.

Forest resources, being one of the components of natural resources and a natural ozonizer, play a special role in maintaining life on our planet. Their role in the socio-economic development of countries as a building material is important. All these conditions were a prerequisite for the formation of an educational program of postgraduate training of specialists at the intersection of nature management and forest resources.

The educational program “Sustainable Natural Resources Management” was developed in accordance with the National Qualifications Framework, agreed with the Dublin Descriptors and the European Qualifications Framework, and was designed on the basis of a modular system for studying disciplines that form general cultural and professional competencies.

A feature of the Sustainable Natural Resources Management educational program is the acquisition by future specialists of the skills to preserve, restore, increase the sustainability and productivity of forest ecosystems, including specially protected natural areas, as well as the skills to develop typical environmental protection measures and assess the impact of planned structures or other forms of economic environmental activities and creating a healthy, aesthetically expressive living environment our country villages in urban areas. The educational program was developed as part of the SISDEV project, which ensures the competitiveness of graduates in the labor market.

### **The main goals and objectives of the development plan with the dates and stages of its development**

The objectives of the educational program "Sustainable Natural Resources Management" is the formation of the main professional competencies of future postgraduate specialists in the field of sustainable natural resources management; creation of prerequisites for independent research activities; the ability to work with world and domestic scientific and technical literature, with information from an electronic resource, also systematize and generalize them. The direction of preparation for the educational program requires a clear orientation towards the future, which is manifested in the possibility of building your postgraduate education, taking into account success in personal, career and professional growth and development that meets the requirements of employers. Thus, the educational program is aimed at realizing the goals and objectives of the national education system. The development priority is the quality organization of all processes: continuous improvement and strengthening of educational program by taking into account the views of employers, research activities, improving the quality of teaching staff, strengthening the methodological and material and technical base.

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### The main objectives of the development plan of the educational program

№	The name of the task	Development periods	Development stages
1	Improving and improving the conditions for obtaining a full, high-quality professional postgraduate education and development	The entire training period	Development of measures to improve educational services for the development of professional skills
2	Updating the content of the educational program, which forms the basic professional competencies of future specialists in the field of agriculture and nature management	The entire training period	When updating the content of educational program, include disciplines recommended by employers
3	Creating conditions for independent search and research activities of students in the framework of experiments at all stages of training	The entire training period	The inclusion of the mandatory conduct of exploration and experimental work in the study of educational program
4	Development of measures for the development of work with scientific and technical information when using domestic and foreign experience in professional activities	The entire training period	Carrying out activities to analyze the results
5	Organization of consultations of employers and scientists of research institutes when choosing topics of relevant and practically significant thesis	The entire training period	Creating a list of relevant and practically significant topics, taking into account the proposals of employers

### The list of activities of the development plan of the educational program

№	Activities	Deadline	Responsible
1	Formation of a commission for updating the development plan of the educational program	September 2021	Candidate of Biological Sciences, Docent Satybaldiyeva G.K., Doctor of Agricultural Sciences Docent Sarsekova D.N, Doctor of Technical Sciences, Professor Bakhov Zh.K., Doctor of Agricultural Sciences Rakhmanov S.S., Doctor of Biological Sciences, Professor Aralbai N.K.,Candidate of Biological Sciences, Docent Kuatbaev AT, Candidate of Biological Sciences, Docent Shupshibaev K.K.,Candidate of Biological Sciences, Associate Professor Utarbayeva A.Sh., Candidate of Technical Sciences, DocentShynbergenova K.T.,Candidate of agricultural sciences Boranbay

2	Goals and objectives of the updated educational program development plan	September 2021	Candidate of Biological Sciences, Docent Satybaldiyeva G.K., Doctor of Agricultural Sciences Docent Sarsekova D.N, Doctor of Technical Sciences, Professor Bakhov Zh.K., Doctor of Agricultural Sciences Rakhmanov S.S., Doctor of Biological Sciences, Professor Aralbai N.K.,Candidate of Biological Sciences, Docent Kuatbaev AT, Candidate of Biological Sciences, Docent Shupshibaev K.K.,Candidate of Biological Sciences, Associate Professor Utarbayeva A.Sh., Candidate of Technical Sciences, DocentShynbergenova K.T.,Candidate of agricultural sciences Boranbay Zh.T., Master of science Kitaybekova S.O.
3	Updating and improving the content of the EP, including the name of the disciplines that determine the modern professional competencies of a specialist	2021-2025	Candidate of Biological Sciences, Docent Satybaldiyeva G.K., Doctor of Agricultural Sciences Docent Sarsekova D.N, Doctor of Technical Sciences, Professor Bakhov Zh.K., Doctor of Agricultural Sciences Rakhmanov S.S., Doctor of Biological Sciences, Professor Aralbai N.K.,Candidate of Biological Sciences, Docent Kuatbaev AT, Candidate of Biological Sciences, Docent Shupshibaev K.K.,Candidate of Biological Sciences, Associate Professor Utarbayeva A.Sh., Candidate of Technical Sciences, DocentShynbergenova K.T.,Candidate of agricultural sciences Boranbay Zh.T., Master of science Kitaybekova S.O., employers
4	Creation of modern educational and research laboratories and practice bases for conducting experimental scientific research in the preparation of master's theses	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
5	Introduction of innovative technologies into the educational process	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"»

6	Conducting a comparative analysis of the development of EP based on the exchange of experience in other domestic and foreign universities	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
7	To develop a media plan to inform all interested parties about the changes in the EP in order to increase the information content of the public about the implementation of the EP. Make a plan for monitoring and updating information about the EP on the university's website.	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
8	Recording courses of video lectures on the disciplines of the educational program	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
9	Development and implementation of the teaching staff's own research in the field of teaching methods of disciplines within the framework of the EP, including elements of additional and non-formal education, into the educational process	2024-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
10	The release of educational and methodological literature in English and Kazakh for master's degree students according to the working curriculum of the educational program	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
11	Targeted training of scientific and pedagogical personnel (PhD doctors) in domestic and foreign universities	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
12	Invitation of foreign scientists in the field of natural resources management from partner universities	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"

13	Development of a joint EP with foreign universities in the field of sustainable management of natural resources	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry" Teaching staff of specialized foreign universities
14	Organization of internships and practices for students in advanced universities and research institutes of the near and far abroad. Strengthen the control of the relevance of contracts and other documentation on the organization of research practices of undergraduates within the framework of the EP	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
15	Participation of teaching staff in seminars, courses, scientific and pedagogical internships as part of professional development	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
16	Participation of the EP heads in training courses /seminars on educational management programs	2025	Doctor of Agricultural Sciences Docent Sarsekova D.N , Candidate of Biological Sciences, Docent Satybaldiyeva G.K., Candidate of agricultural sciences Boranbay Zh.T.
17	Participation of teaching staff in working groups on the implementation of the development strategy of S.Seifullin KATU	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
18	Design of a plan for the development of the department's infrastructure for training taking into account the needs of people with disabilities	2022- 2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"
19	Consideration of the updated development plan of the EP at an expanded meeting of the department with the participation of students and employers	2021-2025	Teaching staff of the departments "Ecology" and "Forest resources and forestry"

Head of the Department "Ecology" \_\_\_\_\_

Satybaldiyeva G.K.