S.Seifullin Kazakh Agrotechnical University

Confirm
Dean of Forestry,
Wildlife and Environment Faculty
D.N. Sarsekova
2022

CATALOG OF ELECTIVE DISCIPLINES

For students in the direction of preparation 7M083 Forestry

Brief description of the elective disciplines of the educational program

EPG	EP	Form of education	The name of discipline	Code of subject	Discipline cycle	nt	Number of credits	Level of training	Cafedra	Course	Academic period	Pre- requisitions	Post- requisitions	Brief content of the discipline	Key learning outcomes	Name of the alternative discipline
M133 - «Forestr y»	7M08301 - «Forest park»	Full-time (MS 2 years) trimester	Ecological tourism	ET 5300	AS	Elective subjects		Master's program by specialization (Scientific & pedagogical direction)	Forest resources and forestry	1	1	Ecology and sustainable developmant, Forest science and forest resource studies		in Kazakhstan. National parks and other protected areas of the Republic of Kazakhstan. The hospitality industry in	ecotourism centers. World regions and ecotourism centers. Central and South America. World regions and	Agroccotourism
y»	7M08301 - «Forest park»	years) trimester	The history and development of forestry in Kazakhstan	IRLHK 5300		Elective subjects		Master's program by specialization (Scientific & pedagogical direction)	Forest resources and forestry	1	2	Forest economy	Private forestry	the world. Forecasting factors affecting forests (with	Be able to reveal the process of formation and development of forestry and the current state of forestry in the Republic of Kazakhstan. To assess the results of long-term forestry activities over the past period and the effectiveness of certain forms of forest management organization used at different stages of the development of the forest sector. Be able to identify rational ways and guidelines that contribute to a significant improvement in the management of forest resources in conditions of sovereign development and transition to a green economy.	The history of developing fo garden and parks sector
Forestr »	«Forest park»	years) trimester	Forest biogeocenolo gy and multifunction al forest use	LBML 5303		Elective subjects	l (Master's program py specialization Scientifie & podagogical direction)	Forest resources and forestry	1	3	Forest science and forest resource studies	Modern Problems of Forest sciences	organization of forest biocenosis, vertical and horizontal structure of forest biocenosis, classification and	Be able to predict the course of biogeocenotic processes under the influence of abiotic, biotic and anthropogenic factors, select the most effective measures to prevent them. Be able to work with scientific literature, be able to introduce modern technologies of rational exploitation of forest resources, increase productivity.	Forest biogeocenology
Forestr	«Forest park»		Biotechnolog y in Forestry	BLH 5304		Elective subjects	() ()	Master's program ny specialization Scientific & sedagogical lirection)	Forest resources and forestry	1	3	Selection of forest tree species	Modern Problems of Forest sciences	biotechnology in forestry; various methods of biotechnology related to forestry; In vitro plant tissue culture, gene regulation, methods of genetic engineering, Biotechnology in molecular biology, Plant Biotechnology in Kazakhsta		Biotechnological methods in plant protection

M133 - «Foresti y»	park»	- Full-time (MS 2 years) trimester	Theory and practice of forest growing or for various purposes	TPVLRN 6300		Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Forest resources and forestry	2	1	dendrology, forest sivil culture		Discipline studies a scientifically based system of measures aimed at developing various systems for growing various types of planting material with a closed and open root system; substantiation of the regimes of multi-rotational cultivation of seedlings; adaptation features of planting material with closed and open roots in forest crops.	Knowledge of modern industrial technologies for growing forests for various purposes, methods of creation and maintenance. Acquisition of practical skills in drawing up projects of plantation crops, planning and drawing up settlement and technological maps, organization of economic activity of a forest enterprise in a market economical way of growing forests for various purposes, to make calculations and analyze them. The ability to convey your point of view, to prove the correctness of the decision	The forest cultivation practice
M133 - «Forestr y»	park»	Full-time (MS 2 years) trimester	Soil formation of forest ecosystems	PLE 6300		Elective subjects	4.0	Master's program by specialization (Scientific & pedagogical direction)	Soil science and agricultural chemistry	2	1	Soil sciesnee, Forest sivil culture, The Forest Soil Science	landscape specific agriculture, Problems of rational use of forest resources	The general scheme of the soil-forming process. Stages of energy, soil formation and evolution, morphological features of the soils of various ecosystems. Weathering of the main soil-forming rocks of various zones, factors of soil formation and their interrelation. Mineral and mechanical composition of soils and POP of various ecosystems. Organic matter of different ecosystems. Soil colloids. Physical property of the soil.		Soil and vegetable diagnostics
«Forestr y»	7M08301 - «Forest park»	Full-time (MS 2 years) trimester	Problems of rational use of forest resources	PRILR 6300	AS	Elective subjects	5.0	Master's program by specialization (Scientific & pedagogical direction)	Forest resources and forestry	2	1	Forest biogeocenolog y and multifunctiona I forest use, Forest science and forest resource studies		The discipline studies methods and techniques for maintaining the integrity of forest resources, their structure, composition, environmental characteristics, taking into account their characteristics, relative inaccessibility, fragility, focus of biodiversity and solving problems of rational use of forest resources.	obtain theoretical and practical skills in determining the types and volumes of forest resources, estimating the cost of forestry work and forest products. To put into practice theoretical knowledge to identify the links between forest resources and the conditions of their formation	Rational use of natural resources
M133 - «Forestr y»	7M08301 - «Forest park»	Full-time (MS 2 years) trimester	Basics of marketing	OM 6300	AS	Elective subjects	4.0	Master's program by specialization (Scientific & pedagogical direction)	Management and marketing	2	1	Basics of economy		Basic definitions of marketing as an economic eategory. Principles of marketing. Qualitative and quantitative goals. The main objectives of marketing. The main functions of marketing. Implementation of marketing functions. Marketing concepts. Basic marketing concepts and their content. The main factors of the microenvironment of the company.	Know the basic concepts in marketing: demand, supply, market, types of demand; the use of advertising as a means of product promotion; the role of marketing in a market economy; theoretical and practical aspects of organization management; management in a market economy; ways of motivation in increasing productivity; management structure at forestry enterprises. To be able to use various methods of motivation in increasing productivity	Interactive marketing
M133 - «Forestr y»	«Forest park»	Full-time (MS 2 years) trimester	specific agriculture		AS	Elective subjects		Master's program by specialization (Scientific & pedagogical direction)	Forest resources and forestry	2	2	Soil sciesnee, Forest sivil culture, The Forest Soil Science	a master's thesis	Features of landscape farming. Fundamentals of scientific farming, tillage, crop rotations, farming systems. Protection of soil from wind and water crosion. Methods that ensure the preservation and improvement of soil fertility in various types of landscapes and environmental conditions; principles of minimizing tillage, soil conservation from erosion and the creation of favorable conditions for the growth and development of forest crops	The study of the general foundations of the theoretical part of landscape farming. State and the formation of landscapes in Kazakhstan. Scientific basis for the cultivation of soil. Erosion, its types and measures to combat it. Types of weeds and measures to combat them. The scientific basis of crops, the rules of agroecological landscape formation	Theoretical bases of adaptive and landscape agriculture
y»	«Forest park»	Full-time (MS 2 years) trimester	species for forest growing in Kazakhstan	6300	AS	Elective subjects		Master's program by specialization (Scientific & pedagogical direction)	Forest resources and forestry	2	2	Decorative dendrology, Dendrology, Biotechnology in Forestry		Types of ornamental woody plants, their main forms and varieties. Introducents used in landscaping. Principles of zoning of introduced tree species. Natural decorative properties. To select an introduced assortment of trees and shrubs for various conditions and forest park facilities and landscaping. Use of materials of introduced breeds by acclimatization and naturalization methods		Trees and shrubs to forest growing in Kazakhstan
«Forestr	«Forest park»		Academic writing.	AP 6302	AS	Elective subjects		Master's program by specialization (Scientific & pedagogical direction)	Иностранны х языков	2	2	Professionally- oriented Foreign Language	a master's thesis	Course is designed to develop and sharpen students' academic and professional writing skills and strategies in English necessary for successful written communication in academic, professional, and workplace settings. During the course, students studythe features of academic writing, using library catalogues and websites. Practice discursive essay writing: outline, thesis statement, body paragraphs and conclusion. Methods of paraphrasing. APA style: references, citation. Students learn the types of abbreviations, academic vocabulary, the use of articles.	Know a foreign language at a professional level, allowing you to conduct scientific research and be able to show your leadership qualities for the development of industry enterprises. Know the functional and stylistic characteristics of the scientific presentation of the material in the studied foreign language, general scientific terminology and the terminological sublanguage of the relevant specialty in a foreign language	English for Academic Purposes

The catalog of elective disciplines was approved by the Council protocol of the Faculty of Forestry, Wildlife and Environment LC OF. 2022

Head of the Department _____ZH.T.Boranbay