## 11. Model of a graduate

	6B08302- Forest resources	7M08302/7M08305- Forest	8D08302- Forest resources and
	and forestry	resources and forestry	forestry
Be	- develop and implement	- master the methods of	- use digital information in
able	projects for forest	planning and conducting	statistical analysis methods;
to:	nurseries, forest crops,	scientific research;	conduct analysis of legislative
	forest melioration, forest	- use the methods of statistical	acts and by-laws and measures
	thinning, forest	analysis and obtaining reliable	for state support of
	exploitation,	information; organization of a	entrepreneurial activity and
	mechanization of forestry	permanent forest seed base,	individual types of production in
	work, forest management,	with methods of harvesting,	Kazakhstan;
	forest taxation;	storing and processing seeds,	- analyze environmental
	- control forest	preparing them for sowing,	processes and set specific tasks
	management work and	growing planting material and	and priorities in environmental
	production of its	creating sustainable forest	protection activities;
	acceptance;	plantations;	- manage the forest sector and
	- organize and carry out	- design ornamental nurseries,	regulate forest relations;
	work on the protection of	propagation of tree and shrub	- master the methodology of
	forests from fires,	species by seeds, cuttings,	economic assessment of forest
	poisoning, unauthorized	inventory of planting material;	resources; analysis,
	cutting, as well as on the	- carry out forest taxation work	generalization and conclusion
	control of forest pests and	on, inventory of forests and	based on the results of scientific
	diseases;	methods of processing field	work;
	- compile current and	materials using special	- give lectures, conduct practical
	annual reports of state	computer programs, laying	and seminar classes on forestry
	forestry institutions,	forest management trial areas,	disciplines;
	national nature parks and	accounting sites, selecting	
	other specialized	model trees, samples and	
	enterprises;	making their measurements;	
	- Organize and carry out	- conection and use of types of	
	work on the design,	motorials:	
	and operation of landscape	apply forest legislation in	
	and operation of fandscape	forest resource management: in	
	reconstruction of green	matters of using aerial and	
	spaces and parks: drawing	snace survey materials in	
	up acts on forest fires and	forestry the essence of space	
	other forest violations.	survey:	
Kno	- morphology and biology	- ecology and biology of forest	- requirements for the
W	of woody plants, patterns	plants, adaptive traits of plants.	organization and planning of a
and	of development of forest	problems and solutions of	scientific experiment in forestry
unde	biogeocenoses, forest	introduction activities;	experimental work;
rstan	typology, structure of	- innovative methods of forest	- basic methods of studying
d:	forest resources;	cultivation, progressive	forest objects;
	- methods of thinning and	technologies of forest seed	- modern computer programs for
	final forest use that ensure	production, organization of	processing statistical data;
	its reproduction;	forest seed base on genetic and	- methods of conducting private
	- methods of forest seed	selection basis;	forestry; experience of growing
	production, organization	- modern methods and	forests on a private basis in other
	of a permanent forest seed	technologies of growing	countries; possibilities for
	base on a selection and	planting material; sustainable	organizing private forestry in

	genetic basis;	management of forest	Kazakhstan; development of
	- methods and	resources;	schemes for the application of
	technologies for growing	- progressive methods of forest	private forestry methods for the
	planting material, methods	management and forest	conditions of Kazakhstan;
	for creating forest crops,	taxation, interpretation of	- general patterns of interaction
	protective and greening	aerospace images;	between living organisms and
	forest plantations;	- history and philosophy of	the environment; distribution of
	- forest management and	forest science, fundamentals of	living organisms in space and
	wood processing	psychology and pedagogy;	time, changes and regulation of
	technology, use of non-	modern technology,	the number of organisms, the
	wood forest usefulness;	methodology and technical	flow of energy through living
	- methods and rules of	means of teaching;	systems and the cycle of
	forest management and	- methods of laying forest	substances, the functioning of
	forest taxation, application	management trial plots,	ecological systems and the
	of aerospace methods for	accounting and circular sites,	biosphere as a whole;
	forestry purposes;	planning and conducting	- principles of rational nature
	- technologies of forest	scientific experiment; modern	management; fundamentals of
	reclamation and landscape	methods of forest protection	forest ecology; the consequences
	taxation.	and conservation;	of the impact of unfavorable
		- rational use of forest	environmental factors on
		resources, progressive	specific tree species;
		technologies of growing forest	- ways and methods of
		and plantation crops taking into	determining the stability of trees
		account world achievements in	and plantings; theoretical aspects
		the field of forest science.	of forest seed business and
			principles of forest seed zoning;
			factors favorable to the
			occurrence and development of
			forest fires, causes of forest
			fires; - preparatory work,
			extinguishing forest fires, tactics
			and techniques for extinguishing
			forest fires; forest fire
			registration, assessment of the
			consequences of forest fires;
			main types of non-timber forest
			products;
			- modern directions of complex
			use of non-timber forest
			products; ways of rational use
			and protection of forest non-
			timber resources.
Be	- in the performance of		- in conducting scientific
com	their professional		theoretical and experimental
pete	functions;		research;
nt:	- development and		- in drafting and implementing
	implementation of projects		complex research projects;
	for forest nurseries, forest		- in matters of scientific
	crops, forest melioration,		methodology, use of modern
	forest thinning,		software products, processing of
	mechanization of forestry		obtained results and forms of
	work, forestry;		their presentation;

- organization and	- in the field of social and
implementation of work	economic policy of the state,
on forest taxation, forest	economics and management of
management, protection of	state institutions, organizations
forests from fires,	and enterprises of the forestry
unauthorized logging, as	industry;
well as in the fight against	- in matters of organizing,
forest pests and diseases;	planning, conducting all types of
- preparation of current	professional activities related to
and annual reports of state	forestry;
forestry institutions,	
national nature parks and	
other specialized	
enterprises.	