



CATALOG OF ELECTIVE DISCIPLINES

For students in the direction of preparation 8D081 Agronomy

Brief description of the elective disciplines of the educational program

EPG	EP	Form of education	The name of discipline	Code of subject	Discipline cycle	Component	Number of credits	Level of training	Cafedra	Course	Academic period	Pre-requisites	Post-requisites	Brief content of the discipline	Key learning outcomes	Name of the alternative discipline
D131 - «Plant growing»	8D08102 - «Organic Farming»	Full-time (PhD 3 years) trimester	Safety of crop products	BRP 7204	BS	Elective subjects	5.0	Doctoral studies by specialization (scientific & pedagogical direction)	Agriculture and plant growing	1	1	Technology of storage and processing of crop products Examination of crop production	PhD student's research work, incl. doctoral thesis	Environmental aspects of nutrition, safety and expertise of food raw materials and food products (social and hygienic monitoring and its main tasks, food safety regulatory framework, environmental certification), the environment as a source of harmful substances, the classification of contaminants-pollutants and their characteristics, indicators and ingredients determining the quality of food raw materials and food products, identification, falsification and labeling of food products, food, biologically active, processing aids. Safety assessment of raw materials and food products.	Ability to address crop safety issues	
D131 - «Plant growing»	8D08102 - «Organic Farming»	Full-time (PhD 3 years) trimester	Managing the productivity of crops and quality of crop production	UPPKRP 7302	AS	Elective subjects	5.0	Doctoral studies by specialization (scientific & pedagogical direction)	Agriculture and plant growing	1	1	crop production, adaptive technologies in crop production	PhD student's research work, incl. doctoral thesis	The course examines the fundamentals of the physiology of the formation of crops of cultivated plants, the factors determining the growth, development of plants. The study of the discipline provides knowledge of the requirements for technologies and the structure of backbone factors in agricultural technologies, the basics of managing adaptive technologies of field crops with elements of precision farming, the conditions for the formation of high-quality crop production.	The ability to use agricultural techniques that contribute to the preservation and improvement of soil fertility, in a comprehensive assessment of the state of resource-saving technologies of cultivation of crops, in assessing possible factors for reducing crop yields and developing actions to improve them. Ability in regulatory legal acts in Kazakhstan, regulating the production and labeling of organic products and the cultivation of organic products. Ability in scientific approaches and trends in the cultivation, management of the productivity of vegetable crops	

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Head of the department

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