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| Educational program | 6B08101 Agronomics |
| EP purpose | Training of highly qualified specialists with subject-specific competencies in professional activities in the cultivation of agricultural crops, rational use of natural and material resources, storage of crops, primary processing of crop production as an agronomist at agricultural enterprises of the agro-industrial complex of various forms of ownership, contributing to its social mobility and sustainability in the labor market. |
| EP type | New EP |
| Level on NQF | 6 |
| Level on SQF | 6 |
| The awarded academic degree | bachelor |
| Period of study | 4 |
| Volume of the credits | 240 |
| Language of education | Kazakh, Russian |
| Date of approval of the OP at the Board meeting | 11.04.2023 |
| Professional standard | Cultivation of sugar beet and its seeds; 26.10.2022 Growing vegetables and potatoes; 26.10.2022 |

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| № | Learning outcomes: |
| 1 | Have the ability to evaluate and apply research methods and innovative approaches to understanding socially significant social phenomena and processes in the legal, economic, entrepreneurial, industrial, environmental, intercultural environment and anti-corruption policy. |
| 2 | To carry out communication in oral and written forms in Kazakh/Russian and foreign languages to solve scientific problems of interpersonal and intercultural interaction; to search, store, process and analyze information from various sources and databases, to present it in the required format using information, computer and network technologies; |
| 3 | Assess the quality of natural environments by chemical indicators; predict changes in the chemical composition and properties of soils in agricultural landscapes; adapt tillage systems taking into account soil fertility and fertilizers used; |
| 4 | Organize agrotechnical and technological work to solve actual practical problems in the field of crop production, agriculture, breeding and seed production, plant protection and agricultural production; |
| 5 | Analyze and apply methods of combating diseases and pests of agricultural crops; develop and justify systems of protective and preventive measures against pests, diseases and weeds; |
| 6 | Uses modern approaches of meteorological support of agriculture in the regions; able to use agrometeorological information in the production of crop products; monitors compliance with established requirements, applicable norms, rules and standards; conducts activities for recycling, decontamination and disposal of various wastes; organizes the process of processing and recycling of agricultural waste; |
| 7 | Analyze the economic efficiency of the use of new varieties, technological techniques, fertilizers, plant protection products; make decisions on the implementation of crop cultivation technologies in various economic and weather conditions; |
| 8 | Assess the suitability of land for cultivation of agricultural crops; takes measures to reproduce soil fertility; uses methods for diagnosing the condition of reclaimed soils and evaluating the effectiveness of the drainage system; develops a set of measures for the primary development, cultivation and maintenance of reclaimed land; |
| 9 | Use cell and tissue cultures for microclonal reproduction and plant health improvement, cell selection, molecular and biochemical markers in plant breeding; |
| 10 | Predicts the consequences of the introduction of plants created by biotechnological methods; uses biotechnological techniques to increase the yield and stability of important agricultural crops; |
| 11 | Organizes agricultural work in the orchard and in the fruit and vegetable nursery; uses modern technologies for growing the main vegetable, feed and grain crops; |
| 12 | Assesses the design of cars and tractors, their mechanisms and systems; complements machine-tractor units and a fleet of agricultural enterprises; effectively organizes the technological process of production and technical operation of machines and mechanisms; |