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| Educational program | 7М05201 Ecology |
| EP purpose  | Training of highly qualified personnel-ecologists of a new formation, adapted to labor requirements and new technologies, able to solve scientific and applied problems in the field of environmental protection. |
| EP type |  Acting  |
| Level on NQF | 7 |
| Level on SQF | 7 |
| The awarded academic degree | Master  |
| Period of study | 2 |
| Volume of the credits | 120 |
| Language of education | Kazakh, Russian, English |
| Date of approval of the OP at the Board meeting | 06.04.2022 (protocol No. 10) |
| Professional standard | IQF in the field of environmental protection |

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| № |  Learning outcomes: |
| 1 | Be able to organize and carry out pedagogical activities, formulate and implement pedagogical goals and objectives; apply philosophical knowledge for a more complete and methodical understanding of independently obtained scientific results; |
| 2 | Be able to logically correctly, argumentatively and clearly build oral and written speech in intercultural communication and in professional and scientific activities; |
| 3 | Apply leadership skills, public speaking, argumentation and discussion; process management skills in conflict situations, psychology of pedagogical communication; plan and organize your activities; |
| 4 | Use GIS and statistical methods in solving problems of ecology and nature management; |
| 5 | To put into practice the skills and abilities in the organization and planning of research and production works in the field of environmental protection; to evaluate the problems, tasks and methods of scientific research; |
| 6 | Analyze, apply and evaluate the selection of effective measures and ways to protect the environment; design measures to protect the environment; |
| 7 | To analyze the methods of designing environmental protection and rational use of natural resources at the present stage. |
| 8 | To monitor the state of the environment; to assess the adverse effects and the extent of their impact on the components of the environment; |
| 9 | Develop conclusions on the feasibility of using innovative proposals to improve environmental technologies in environmental regulations; |
| 10 | Evaluate the initial data obtained as a result of the survey, which is necessary for the design of water treatment and wastewater treatment systems. |