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| Educational program | 7М05201 Ecology |
| EP purpose  | training of highly qualified personnel-ecologists in a new formation, in demand on the labor market in the field of ecology, environmental education, upbringing and 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 | 11.04.2023 |
| Professional standard |  |

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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 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; |
| 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. |