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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 | Geoecological research (Geoecologist) 22.08.2023, Professional standard: Teacher (faculty) of higher and (or) postgraduate education organizations 20.11.2023 |

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| № | Learning outcomes: |
| 1 | use GIS and statistical methods in solving problems of ecology and nature management; |
| 2 | apply leadership skills, public speaking, argumentation and discussion; process management skills in conflict situations, psychology of pedagogical communication; plan and organize your activities; |
| 3 | carry out monitoring and calculations of maximum pollution standards for the atmosphere, hydrosphere and lithosphere; to assess the adverse effects and the extent of their impact on the components of the environment; |
| 4 | to analyze the methods of designing environmental protection and rational use of natural resources at the present stage, control of ensuring the regulatory state of the environment in the area where the enterprise is located. |
| 5 | analyze, apply and evaluate the selection of effective measures and ways to protect the environment; design measures to protect the environment; |
| 6 | develop conclusions on the feasibility of using innovative proposals to improve environmental technologies in environmental regulations; |
| 7 | evaluate the initial data obtained as a result of the survey, which is necessary for the design of water treatment and wastewater treatment systems. |
| 8 | 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; |
| 9 | be able to logically correctly, argumentatively and clearly build oral and written speech in intercultural communication and in professional and scientific activities; |
| 10 | 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; |