«Approve»

Director of Mining and Metallurgy

Institute

Rysbekov K.

2022 year.

6.A. 5 Protocol 12 / AC MMI

DEVELOPMENT PLAN

EP «6B05206 – Engineering ecology»

1 General information

EP «6B05206 - Engineering ecology» developed in accordance with the National Qualifications Framework, coordinated with the Dublin descriptors and the European Qualifications Framework, designed on the basis of a modular system of studying disciplines that form general cultural and professional competencies.

2 The main goal of development of the EP

The main goal of the educational program «Ecology Engineering» is to train competitive specialists:

- possessing knowledge in the field of ecology and environmental protection, methods of modern eco-analytics and eco-technologies;
- capable of solving environmental problems, fulfilling sustainable development goals, introducing the best available technologies in various industries, using regulatory legal documents in their professional activities;
 - having competence in production, research and teaching areas.

3 Development objectives EP

- 3.1 Studying a cycle of major disciplines to develop theoretical knowledge, practical skills and abilities:
- in the field of general and engineering ecology, eco-analytics and ecotechnologies;
 - in solving ecological problems;
 - in achieving sustainable development goals;
 - in introducing the best available techniques into various industries;
 - in environmental protection and restoration.
- 3.2 Studying disciplines that form knowledge, skills and abilities in planning and organizing environmental research and environmental design; acquisition of skills and abilities of modern environmental quality control of environmental components.
 - 3.3 Acquiring skills:
 - to assess the impact of economic and other activities on ecosystems;
 - for environmental assessment and environmental risk assessment;
- for the preparation of environmental and regulatory documentation and all types of environmental reporting.

4 Long-term action plan for the development and improvement of educational (educational work, educational and methodological work), scientific (research work, scientific and educational work, scientific and methodological work) and organizational and management activities for 2021-2026

Contents of the event	Responsible executors
Formation of a working group and commission to	Director of the Institute,
develop a development plan for the educational	Head of department, Teaching staff
program Contained the advectional program	Director of the Institute,
Goals and objectives of the educational program development plan	Head of department,
	Teaching staff
Updating and improving the content of the EP,	Director of the Institute,
including the name of the disciplines that determine	Head of department,
the modern professional competencies of a specialist	Teaching staff
Strengthening the material and technical base	Director of the Institute,
	Head of department,
	Teaching staff
Introduction of innovative educational technologies	Director of the Institute,
into the educational process	Head of department,
	Teaching staff
Providing electronic educational materials,	Director of the Institute,
multimedia educational resources for all EP	Head of department,
disciplines	Teaching staff
Ensuring the participation of teachers and students	Director of the Institute,
in interuniversity and international conferences	Head of department,
	Teaching staff
Development of scientific schools, training of students	Director of the Institute,
	Head of department,
	Teaching staff
Regular professional development of teaching staff	Director of the Institute,
	Head of department,
	Teaching staff
Development of corporate culture	Director of the Institute,
	Head of department,
	Teaching staff

Head of Department ChT and IE Kubekova Sh.N.