

Petroleum engineering Program Educational Objectives (PEOs)

1. Our graduates will be able to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics to improve oil and gas industry processes.
2. Our graduates will effectively convey information and ideas to a range of audiences.
3. Our graduates will uphold ethical, social, and environmental standards in their professional practice and make informed judgments, considering the impact of engineering solutions in global, economic, environmental, and societal contexts.
4. Our graduates will exhibit a high level of competence in engineering principles and practice.
5. Our graduates will be able to function effectively on teams whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives in multidisciplinary and multicultural settings.
6. Our graduates will serve society, the oil and gas industry, and the state through participation in professional communities and public organizations.
7. Our graduates will be successful professionals, ready to lead the team, the organization, the Republic of Kazakhstan and the world community to new achievements.

Student Outcomes

The "Petroleum Engineering" educational program is designed to equip students with the knowledge and skills required upon graduation, in alignment with **ABET Criterion 3 - Student Outcomes**. The learning outcomes of the Petroleum Engineering program are as follows:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. an ability to communicate effectively with a range of audiences.
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Undergraduate Program Enrollment and Graduation Data

Academic Year	Fall Semester Undergraduate Enrollment	Degrees Awarded
2024-25	52	N/A
2023-24	60	69
2022-23	63	184
2021-22	107	101
2020-21	64	110