**Program Aims – Petroleum Engineering**

The Petroleum Engineering program is committed to equipping future engineers with the theoretical knowledge and technical skills necessary to meet the evolving demands of the professional market. The program is designed to prepare graduates who are able to:

1. Identify, formulate, and solve complex petroleum engineering problems by applying principles of engineering, science, and mathematics.
2. Apply petroleum 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. Communicate effectively with a range of audiences.
4. Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of petroleum engineering solutions in global, economic, environmental, and societal contexts.
5. Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. Acquire and apply new knowledge as needed, using appropriate learning strategies.
8. Use techniques, skills and modern engineering tools necessary for petroleum engineering practice.
9. Demonstrate leadership qualities, business administration and entrepreneurial skills.
10. Recognize his/her role in promoting the engineering field and contribute in the development of the profession and the community.