# Oil and Gas equipment Engineering

## About Oil and Gas equipment Engineering Department:

The Department of Oil and Gas Equipment Engineering was established in the College of Electromechanical Engineering during the 2019-2020 academic year. The program specializes in graduating applied engineers after four years of study in the field of oil and gas equipment engineering. Graduates possess both knowledge and experience in relevant oil and gas equipment engineering.

The Bachelor of Engineering is a professional degree that allows graduates to register with the Iraqi Engineers Syndicate and practice immediately after graduation. The four-year program includes a joint academic year for specialization, covering basic science and engineering courses along with general education subjects from the oil and gas equipment engineering specialization. The curriculum was also developed to meet Iraqi licensing requirements.

The program prepares students for various types of traditional and modern oil and gas equipment currently used in companies and departments affiliated with the Iraqi Ministry of Oil.

## Mission Statement of the Oil and Gas equipment Engineering Department

The mission of the Oil and Gas equipment Department is to:

1- Prepare our students for successful careers in the Oil and Gas equipment profession.

2- Conduct high quality and innovate research, and

3- Serve the community and industry providing educational and research resources.

## The program educational objectives of Oil and Gas equipment Engineering are:

1. Enter the Oil and Gas equipment engineering profession as practicing engineers and consultants with prominent companies and organizations in diverse areas that related to Oil and Gas equipment engineering.
2. Pursue graduate education and research at major research universities in Oil and Gas equipment engineering, and related fields
3. Advance in their chosen fields to supervisory and management positions
4. Engage in continued learning through professional development
5. Participate in and contribute to professional societies and community services

## Outcomes:

1-An ability to identify, formulate, and solve engineering in Oil and Gas equipment engineering problems by applying principles of engineering, science, and mathematics

2-An ability to apply the engineering design process to produce solutions that meet specified needs with consideration for public health and safety, and global, cultural, social, environmental, economic, and other factors as appropriate to the discipline

3-An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions

4-An ability to communicate effectively with a range of audiences

5-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

6-An ability to recognize the ongoing need to acquire new knowledge, to choose appropriate learning strategies, and to apply this knowledge

7-An ability to function effectively as a member or leader of a team that establishes goals, plans tasks, meets deadlines, and creates a collaborative and inclusive environment