Republic of Yemen

Sana'a University
Faculty of Petroleum and Natural Resources
Quality Assurance Unit





جسامعة صنعساء كليسة البترول والموارد الطبيعية وحدة ضمان الجودة

College Graduate Specifications and Learning Outcomes

***** College Graduate Specifications:

Upon successfully completing their studies at the college, the graduate will be able to:

- 1. Explain concepts related to their specialization that help them acquire more professional and scientific knowledge and skills.
- **2.** Collect, analyze, and interpret data related to petroleum engineering, geology, and environmental science.
- 3. Survey and create descriptive maps of the type of rocks, structures, and environments.
- **4.** Propose solutions to problems encountered in fields related to their specialization.
- **5.** Work within a team, communicate effectively, and prepare reports.
- **6.** Seek knowledge and engage in self-directed learning.

***** Learning Outcomes:

1. Knowledge and Understanding:

- Understand basic scientific concepts and mathematics related to petroleum engineering, earth sciences, and environmental studies.
- Explain fundamental concepts of petroleum, geology and environmental sciences, including demonstrating the impact of safety and environmental concerns on both global and local levels.
- Show cognitive understanding of the basic principles of general culture, Islamic values, and national values.

2. Intellectual Skills:

- Design an engineering project related to geology, the environment, or petroleum sciences.
- Practice critical thinking and creative problem-solving skills during fieldwork or in laboratories and find solutions to emerging issues.
- Efficiently evaluate available data within their specialization and correlate it within a temporal and spatial framework.

3. Professional and Practical Skills:

- Study samples, data, and microscopic slides both in the field and in laboratories.
- Analyze and interpret data, maps, and records according to their area of specialization.
- Use modern technologies and software relevant to their field.
- Design and conduct geological, exploratory, mineralogical, and environmental experiments.

4. General Skills:

- Collaborate effectively within multidisciplinary teams under stressful circumstances and constraints.
- Communicate effectively using modern technology and practice negotiation and problem-solving skills.
- Prepare technical reports within their field of specialization.

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