

## Course Description Form

|                                                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
|---------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-------------------|
| 1. Course Name: Drilling Eng II                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
|                                                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 2. Course Code:                                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| PE402                                                               |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 3. Semester / Year: Four                                            |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
|                                                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 4. Description Preparation Date:                                    |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
|                                                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 5. Available Attendance Forms:                                      |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
|                                                                     |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 6. Number of Credit Hours (Total) / Number of Units (Total)         |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 3                                                                   |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 7. Course administrator's name (mention all, if more than one name) |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| Name: Raed H. Allawi<br>Email: raed.Allawi@alayer.edu.iq            |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| 8. Course Objectives                                                |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| Course Objectives                                                   |       | These course objectives ensure that students in the petroleum engineering program are equipped with the necessary technical expertise, analytical skills, and practical experience to succeed in their careers.                                                          |                      |                 |                   |
| 9. Teaching and Learning Strategies                                 |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| Strategy                                                            |       | By combining traditional lectures with hands-on experiences, real-world applications, and collaborative learning opportunities, the teaching strategies ensure students in the petroleum engineering program develop the competencies required to excel in the industry. |                      |                 |                   |
| 10. Course Structure                                                |       |                                                                                                                                                                                                                                                                          |                      |                 |                   |
| Week                                                                | Hours | Required Learning Outcomes                                                                                                                                                                                                                                               | Unit or subject name | Learning method | Evaluation method |



|    |    |                                                                                                                                                                                                                                                                              |                                                                                                                              |  |  |
|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--|--|
| 30 | 90 | <p>The <b>learning outcomes</b> define the knowledge, skills, and competencies students are expected to gain upon successful completion of a petroleum engineering program. These outcomes align with industry needs, academic standards, and professional expectations.</p> | <p>Each unit contributes to developing a well-rounded understanding of petroleum extraction, production, and management.</p> |  |  |
|----|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--|--|

### 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparation, daily oral, monthly, or written exams, reports .... etc

### 12. Learning and Teaching Resources

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|--------------------------------------------------------------------|--|
| Required textbooks (curricular books, if any)                      |  |
| Main references (sources)                                          |  |
| Recommended books and references (scientific journals, reports...) |  |
| Electronic References, Websites                                    |  |

