Ministry of Higher Education and Scientific Research
Al-Farabi University
College of Technical Engineering
Department of Oil Exploration Technologies and Well Drilling Engineering

Academic Program and Course Description Guide Department of Oil Exploration Technologies and Well Drilling Engineering

Academic Year 2025-2026

Academic Program Description Form

University Name	Al-Farabi University
College / Institute	College of Technical Engineering
Scientific Department	Department of Oil Exploration Technologies and Well Drilling Engineering
Academic or Professional Program Name	Bachelor of Oil Exploration Technologies and Well Drilling Engineering
Final Certificate Name	Bachelor in Oil Exploration Technologies Engineering
Academic System	Courses: Semester 1 + Semester 2
Description Preparation Date	21 February 2026
File Completion Date	21 February 2026

Head of Department Name: Prof. Dr. Raad M. Wafur Signature: _____ Date: 21/6/2026	Scientific Associate Name: Dr. Ahmed Hussein Signature: _____ Date: 21 / 6 / 2026
Quality Assurance and University Performance Division Reviewed by: Prof. Dr. Hanaa Hammood Division Manager Name: _____ Signature: _____ Date: ___ / ___ / 2026	Dean's Approval Dean of the College: Assist. Prof. Dr. Nazim Abdulla Signature: _____ Date: 21 / 6 / 2026

1. Program Vision

Leadership and excellence in oil exploration technologies and well drilling engineering at the local and regional levels by preparing engineering cadres who are scientifically and practically qualified to keep pace with technological developments.

2. Program Mission

The department provides distinguished engineering and technical education according to quality and academic accreditation standards, supporting theoretical and applied learning in oil exploration, drilling, geology, and reservoir-related fields.

3. Program Objectives

- Prepare graduates with a strong scientific foundation in petroleum geology, drilling technologies, and reservoir engineering.
- Develop students' skills in modern technologies and specialized software used in exploration and drilling.
- Strengthen practical, laboratory, field, and reporting skills.
- Prepare students to solve technical problems related to oil and gas extraction and production.

4. Program Accreditation

None, because the department is newly established.

5. External Influences / Factors

None.

6. Program Structure

Structure	Courses	Study Units	Percentage	Notes
Institution Requirements	3	6	13%	Arabic, English, Democracy
College Requirements	4	14	30%	Mathematics I/II, Computer, Engineering Drawing
Department Requirements	7	26	57%	Petroleum Engineering, Physics, Geology, Chemistry, Mechanics, Workshops
Summer Training	None	0	0%	Usually starts after the second or third stage
Total	14	46	100%	First-stage total units

7. Program Description - First Stage Courses

Year / Level	Code	Course	Theory	Practical	Total
First Stage / Semester 1	PRPE112	Introduction to Petroleum Engineering	4	-	3
First Stage / Semester 1	MATH101	Mathematics I	4	-	4
First Stage / Semester 1	GEOL101	General Geology I	2	2	4
First Stage / Semester 2	CHEM102	General Chemistry	2	2	4
First Stage / Semester 1	MECH101	Engineering Mechanics	2	2	4
First Stage / Semester 2	DRAW102	Engineering Drawing	1	3	4
First Stage / Semester 2	PHYS102	Applied Physics	2	2	4
First Stage / Semester 2	MATH102	Mathematics II	4	-	4
First Stage / Semester 2	GEOL102	General Geology II	2	2	4
First Stage / Semester 1	WORK101	Engineering Workshops	-	2	2
First Stage / Semester 1	COMP101	Computer	2	2	4
First Stage / Semester 1	ENGL101	English Language	2	-	2
First Stage / Semester 2	ARAB101	Arabic Language	2	-	2
First Stage / Semester 2	DEMO101	Democracy and Human Rights	2	-	2

8. Program Intended Learning Outcomes

Knowledge

- Understand oil exploration technologies and well drilling techniques.
- Understand properties of rocks containing oil and gas reservoirs.
- Understand basic petroleum geology, mechanics, chemistry, physics, and engineering drawing concepts.

Skills

- Select appropriate techniques for extracting oil and gas.
- Estimate production in relation to reservoir size.
- Use scientific reasoning to solve problems in drilling and exploration contexts.

Values

- Professional responsibility, field safety, teamwork, scientific integrity, and effective communication.

9. Teaching, Learning, and Assessment Strategies

- In-person discussion, reports, seminars, lectures, and practical work.
- Assessment through class participation, examinations, reports, seminars, and study activities.

10. Academic Staff

Name	General Specialization	Specific Specialization	Status
Asst. Lect. Hussein Najm Abd	Petroleum Engineering	Drilling Engineering	Staff
Prof. Dr. Raad Mohammed Wafer	Geology	Remote Sensing	Staff
Asst. Prof. Dr. Ahmed Abdullah Ramadan	Geology	Geology	Staff
Asst. Lect. Ahmed Abbas Ali	Remote Sensing	Geographic Information Systems	Staff

11. Professional Development and Admission

Faculty members are guided in modern lecture delivery, use of instructional films and available teaching aids, and regular attendance. Professional development includes teaching-method courses and competency testing.

Admission criteria include certificate, specialization, teaching competence, and suitable personality for the educational environment.

12. Program Development Plan

- Increase specialization hours and reduce unrelated hours.
- Provide integrated teaching aids.
- Provide field visits and scientific films.

Course Description - PRPE112 Introduction to Petroleum Engineering			
Course Name	Introduction to Petroleum Engineering	**Course Code**	PRPE112
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	3	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Introduction to Petroleum Engineering.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	3	Knowledge and applied skill	Petroleum engineering overview	Questions / practical task / quiz
2	3	Knowledge and applied skill	Exploration concepts	Questions / practical task / quiz
3	3	Knowledge and applied skill	Drilling basics	Questions / practical task / quiz
4	3	Knowledge and applied skill	Reservoir concepts	Questions / practical task / quiz
5	3	Knowledge and applied skill	Field applications	Questions / practical task / quiz
6	3	Knowledge and applied skill	Petroleum engineering overview	Questions / practical task / quiz
7	3	Knowledge and applied skill	Exploration concepts	Questions / practical task / quiz
8	3	Knowledge and applied skill	Drilling basics	Questions / practical task / quiz
9	3	Knowledge and applied skill	Reservoir concepts	Questions / practical task / quiz
10	3	Knowledge and applied skill	Field applications	Questions / practical task / quiz
11	3	Knowledge and applied skill	Petroleum engineering overview	Questions / practical task / quiz
12	3	Knowledge and applied skill	Exploration concepts	Questions / practical task / quiz
13	3	Knowledge and applied skill	Drilling basics	Questions / practical task / quiz
14	3	Knowledge and applied skill	Reservoir concepts	Questions / practical task / quiz
15	3	Knowledge and applied skill	Field applications	Questions / practical task / quiz

Course Description - MATH101 Mathematics I			
Course Name	Mathematics I	**Course Code**	MATH101
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	4	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Mathematics I.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	3	Knowledge and applied skill	Functions	Questions / practical task / quiz
2	3	Knowledge and applied skill	Limits	Questions / practical task / quiz
3	3	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
4	3	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
5	3	Knowledge and applied skill	Applications	Questions / practical task / quiz
6	3	Knowledge and applied skill	Functions	Questions / practical task / quiz
7	3	Knowledge and applied skill	Limits	Questions / practical task / quiz
8	3	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
9	3	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
10	3	Knowledge and applied skill	Applications	Questions / practical task / quiz
11	3	Knowledge and applied skill	Functions	Questions / practical task / quiz
12	3	Knowledge and applied skill	Limits	Questions / practical task / quiz
13	3	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
14	3	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
15	3	Knowledge and applied skill	Applications	Questions / practical task / quiz

Course Description - GEOL101 General Geology I			
Course Name	General Geology I	**Course Code**	GEOL101
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	2	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in General Geology I.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Earth structure	Questions / practical task / quiz
2	4	Knowledge and applied skill	Plate tectonics	Questions / practical task / quiz
3	4	Knowledge and applied skill	Minerals	Questions / practical task / quiz
4	4	Knowledge and applied skill	Rocks	Questions / practical task / quiz
5	4	Knowledge and applied skill	Petroleum geology applications	Questions / practical task / quiz
6	4	Knowledge and applied skill	Earth structure	Questions / practical task / quiz
7	4	Knowledge and applied skill	Plate tectonics	Questions / practical task / quiz
8	4	Knowledge and applied skill	Minerals	Questions / practical task / quiz
9	4	Knowledge and applied skill	Rocks	Questions / practical task / quiz
10	4	Knowledge and applied skill	Petroleum geology applications	Questions / practical task / quiz
11	4	Knowledge and applied skill	Earth structure	Questions / practical task / quiz
12	4	Knowledge and applied skill	Plate tectonics	Questions / practical task / quiz
13	4	Knowledge and applied skill	Minerals	Questions / practical task / quiz
14	4	Knowledge and applied skill	Rocks	Questions / practical task / quiz
15	4	Knowledge and applied skill	Petroleum geology applications	Questions / practical task / quiz

Course Description - CHEM102 General Chemistry			
Course Name	General Chemistry	**Course Code**	CHEM102
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	2	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in General Chemistry.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Matter and atoms	Questions / practical task / quiz
2	4	Knowledge and applied skill	Chemical bonding	Questions / practical task / quiz
3	4	Knowledge and applied skill	Solutions	Questions / practical task / quiz
4	4	Knowledge and applied skill	Reactions	Questions / practical task / quiz
5	4	Knowledge and applied skill	Petroleum chemistry applications	Questions / practical task / quiz
6	4	Knowledge and applied skill	Matter and atoms	Questions / practical task / quiz
7	4	Knowledge and applied skill	Chemical bonding	Questions / practical task / quiz
8	4	Knowledge and applied skill	Solutions	Questions / practical task / quiz
9	4	Knowledge and applied skill	Reactions	Questions / practical task / quiz
10	4	Knowledge and applied skill	Petroleum chemistry applications	Questions / practical task / quiz
11	4	Knowledge and applied skill	Matter and atoms	Questions / practical task / quiz
12	4	Knowledge and applied skill	Chemical bonding	Questions / practical task / quiz
13	4	Knowledge and applied skill	Solutions	Questions / practical task / quiz
14	4	Knowledge and applied skill	Reactions	Questions / practical task / quiz
15	4	Knowledge and applied skill	Petroleum chemistry applications	Questions / practical task / quiz

Course Description - MECH101 Engineering Mechanics			
Course Name	Engineering Mechanics	**Course Code**	MECH101
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	2	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Engineering Mechanics.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	3	Knowledge and applied skill	Statics	Questions / practical task / quiz
2	3	Knowledge and applied skill	Forces	Questions / practical task / quiz
3	3	Knowledge and applied skill	Moments	Questions / practical task / quiz
4	3	Knowledge and applied skill	Friction	Questions / practical task / quiz
5	3	Knowledge and applied skill	Engineering applications	Questions / practical task / quiz
6	3	Knowledge and applied skill	Statics	Questions / practical task / quiz
7	3	Knowledge and applied skill	Forces	Questions / practical task / quiz
8	3	Knowledge and applied skill	Moments	Questions / practical task / quiz
9	3	Knowledge and applied skill	Friction	Questions / practical task / quiz
10	3	Knowledge and applied skill	Engineering applications	Questions / practical task / quiz
11	3	Knowledge and applied skill	Statics	Questions / practical task / quiz
12	3	Knowledge and applied skill	Forces	Questions / practical task / quiz
13	3	Knowledge and applied skill	Moments	Questions / practical task / quiz
14	3	Knowledge and applied skill	Friction	Questions / practical task / quiz
15	3	Knowledge and applied skill	Engineering applications	Questions / practical task / quiz

Course Description - DRAW102 Engineering Drawing			
Course Name	Engineering Drawing	**Course Code**	DRAW102
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	1	**Practical**	3
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Engineering Drawing.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Drawing tools	Questions / practical task / quiz
2	4	Knowledge and applied skill	Projection	Questions / practical task / quiz
3	4	Knowledge and applied skill	Dimensioning	Questions / practical task / quiz
4	4	Knowledge and applied skill	Engineering symbols	Questions / practical task / quiz
5	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz
6	4	Knowledge and applied skill	Drawing tools	Questions / practical task / quiz
7	4	Knowledge and applied skill	Projection	Questions / practical task / quiz
8	4	Knowledge and applied skill	Dimensioning	Questions / practical task / quiz
9	4	Knowledge and applied skill	Engineering symbols	Questions / practical task / quiz
10	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz
11	4	Knowledge and applied skill	Drawing tools	Questions / practical task / quiz
12	4	Knowledge and applied skill	Projection	Questions / practical task / quiz
13	4	Knowledge and applied skill	Dimensioning	Questions / practical task / quiz
14	4	Knowledge and applied skill	Engineering symbols	Questions / practical task / quiz
15	4	Knowledge and applied skill	Technical sheets	Questions / practical task / quiz

Course Description - PHYS102 Applied Physics			
Course Name	Applied Physics	**Course Code**	PHYS102
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	2	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Applied Physics.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
2	4	Knowledge and applied skill	Motion	Questions / practical task / quiz
3	4	Knowledge and applied skill	Energy	Questions / practical task / quiz
4	4	Knowledge and applied skill	Fluids	Questions / practical task / quiz
5	4	Knowledge and applied skill	Applied physics problems	Questions / practical task / quiz
6	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
7	4	Knowledge and applied skill	Motion	Questions / practical task / quiz
8	4	Knowledge and applied skill	Energy	Questions / practical task / quiz
9	4	Knowledge and applied skill	Fluids	Questions / practical task / quiz
10	4	Knowledge and applied skill	Applied physics problems	Questions / practical task / quiz
11	4	Knowledge and applied skill	Measurements	Questions / practical task / quiz
12	4	Knowledge and applied skill	Motion	Questions / practical task / quiz
13	4	Knowledge and applied skill	Energy	Questions / practical task / quiz
14	4	Knowledge and applied skill	Fluids	Questions / practical task / quiz
15	4	Knowledge and applied skill	Applied physics problems	Questions / practical task / quiz

Course Description - MATH102 Mathematics II			
Course Name	Mathematics II	**Course Code**	MATH102
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	3
Theory	3	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Mathematics II.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	3	Knowledge and applied skill	Functions	Questions / practical task / quiz
2	3	Knowledge and applied skill	Limits	Questions / practical task / quiz
3	3	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
4	3	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
5	3	Knowledge and applied skill	Applications	Questions / practical task / quiz
6	3	Knowledge and applied skill	Functions	Questions / practical task / quiz
7	3	Knowledge and applied skill	Limits	Questions / practical task / quiz
8	3	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
9	3	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
10	3	Knowledge and applied skill	Applications	Questions / practical task / quiz
11	3	Knowledge and applied skill	Functions	Questions / practical task / quiz
12	3	Knowledge and applied skill	Limits	Questions / practical task / quiz
13	3	Knowledge and applied skill	Derivatives/integrals	Questions / practical task / quiz
14	3	Knowledge and applied skill	Matrices or series	Questions / practical task / quiz
15	3	Knowledge and applied skill	Applications	Questions / practical task / quiz

Course Description - GEOL102 General Geology II			
Course Name	General Geology II	**Course Code**	GEOL102
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	2	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in General Geology II.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	4	Knowledge and applied skill	Earth structure	Questions / practical task / quiz
2	4	Knowledge and applied skill	Plate tectonics	Questions / practical task / quiz
3	4	Knowledge and applied skill	Minerals	Questions / practical task / quiz
4	4	Knowledge and applied skill	Rocks	Questions / practical task / quiz
5	4	Knowledge and applied skill	Petroleum geology applications	Questions / practical task / quiz
6	4	Knowledge and applied skill	Earth structure	Questions / practical task / quiz
7	4	Knowledge and applied skill	Plate tectonics	Questions / practical task / quiz
8	4	Knowledge and applied skill	Minerals	Questions / practical task / quiz
9	4	Knowledge and applied skill	Rocks	Questions / practical task / quiz
10	4	Knowledge and applied skill	Petroleum geology applications	Questions / practical task / quiz
11	4	Knowledge and applied skill	Earth structure	Questions / practical task / quiz
12	4	Knowledge and applied skill	Plate tectonics	Questions / practical task / quiz
13	4	Knowledge and applied skill	Minerals	Questions / practical task / quiz
14	4	Knowledge and applied skill	Rocks	Questions / practical task / quiz
15	4	Knowledge and applied skill	Petroleum geology applications	Questions / practical task / quiz

Course Description - WORK101 Engineering Workshops			
Course Name	Engineering Workshops	**Course Code**	WORK101
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	2
Theory	-	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Engineering Workshops.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	2	Knowledge and applied skill	Workshop safety	Questions / practical task / quiz
2	2	Knowledge and applied skill	Tools	Questions / practical task / quiz
3	2	Knowledge and applied skill	Measurements	Questions / practical task / quiz
4	2	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz
5	2	Knowledge and applied skill	Field readiness	Questions / practical task / quiz
6	2	Knowledge and applied skill	Workshop safety	Questions / practical task / quiz
7	2	Knowledge and applied skill	Tools	Questions / practical task / quiz
8	2	Knowledge and applied skill	Measurements	Questions / practical task / quiz
9	2	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz
10	2	Knowledge and applied skill	Field readiness	Questions / practical task / quiz
11	2	Knowledge and applied skill	Workshop safety	Questions / practical task / quiz
12	2	Knowledge and applied skill	Tools	Questions / practical task / quiz
13	2	Knowledge and applied skill	Measurements	Questions / practical task / quiz
14	2	Knowledge and applied skill	Practical exercises	Questions / practical task / quiz
15	2	Knowledge and applied skill	Field readiness	Questions / practical task / quiz

Course Description - COMP101 Computer			
Course Name	Computer	**Course Code**	COMP101
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	4
Theory	2	**Practical**	2
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Computer.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	3	Knowledge and applied skill	Computer basics	Questions / practical task / quiz
2	3	Knowledge and applied skill	Operating systems	Questions / practical task / quiz
3	3	Knowledge and applied skill	Office tools	Questions / practical task / quiz
4	3	Knowledge and applied skill	Spreadsheets	Questions / practical task / quiz
5	3	Knowledge and applied skill	Technical applications	Questions / practical task / quiz
6	3	Knowledge and applied skill	Computer basics	Questions / practical task / quiz
7	3	Knowledge and applied skill	Operating systems	Questions / practical task / quiz
8	3	Knowledge and applied skill	Office tools	Questions / practical task / quiz
9	3	Knowledge and applied skill	Spreadsheets	Questions / practical task / quiz
10	3	Knowledge and applied skill	Technical applications	Questions / practical task / quiz
11	3	Knowledge and applied skill	Computer basics	Questions / practical task / quiz
12	3	Knowledge and applied skill	Operating systems	Questions / practical task / quiz
13	3	Knowledge and applied skill	Office tools	Questions / practical task / quiz
14	3	Knowledge and applied skill	Spreadsheets	Questions / practical task / quiz
15	3	Knowledge and applied skill	Technical applications	Questions / practical task / quiz

Course Description - ENGL101 English Language			
Course Name	English Language	**Course Code**	ENGL101
Semester / Year	First Stage / Semester 1	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	2
Theory	2	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in English Language.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	2	Knowledge and applied skill	Basic English	Questions / practical task / quiz
2	2	Knowledge and applied skill	Technical vocabulary	Questions / practical task / quiz
3	2	Knowledge and applied skill	Reading	Questions / practical task / quiz
4	2	Knowledge and applied skill	Writing	Questions / practical task / quiz
5	2	Knowledge and applied skill	Communication	Questions / practical task / quiz
6	2	Knowledge and applied skill	Basic English	Questions / practical task / quiz
7	2	Knowledge and applied skill	Technical vocabulary	Questions / practical task / quiz
8	2	Knowledge and applied skill	Reading	Questions / practical task / quiz
9	2	Knowledge and applied skill	Writing	Questions / practical task / quiz
10	2	Knowledge and applied skill	Communication	Questions / practical task / quiz
11	2	Knowledge and applied skill	Basic English	Questions / practical task / quiz
12	2	Knowledge and applied skill	Technical vocabulary	Questions / practical task / quiz
13	2	Knowledge and applied skill	Reading	Questions / practical task / quiz
14	2	Knowledge and applied skill	Writing	Questions / practical task / quiz
15	2	Knowledge and applied skill	Communication	Questions / practical task / quiz

Course Description - ARAB101 Arabic Language			
Course Name	Arabic Language	**Course Code**	ARAB101
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	2
Theory	2	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Arabic Language.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
2	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
3	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
4	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
5	2	Knowledge and applied skill	Final review	Questions / practical task / quiz
6	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
7	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
8	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
9	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
10	2	Knowledge and applied skill	Final review	Questions / practical task / quiz
11	2	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
12	2	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
13	2	Knowledge and applied skill	Discussion	Questions / practical task / quiz
14	2	Knowledge and applied skill	Exercises	Questions / practical task / quiz
15	2	Knowledge and applied skill	Final review	Questions / practical task / quiz

Course Description - DEMO101 Democracy and Human Rights			
Course Name	Democracy and Human Rights	**Course Code**	DEMO101
Semester / Year	First Stage / Semester 2	**Attendance**	In person
Preparation Date	21 February 2026	**Total Hours**	2
Theory	2	**Practical**	-
Course Instructor	To be assigned by the department	**Academic Year**	2025-2026

Course Objectives

- Develop students' knowledge and applied competence in Democracy and Human Rights.
- Connect theory with petroleum, geology, drilling, laboratory, or field applications.
- Build analytical, practical, reporting, teamwork, and safety skills.

Course Structure

Week	Hours	Required Learning Outcomes	Unit / Topic	Assessment
1	0	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
2	0	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
3	0	Knowledge and applied skill	Discussion	Questions / practical task / quiz
4	0	Knowledge and applied skill	Exercises	Questions / practical task / quiz
5	0	Knowledge and applied skill	Final review	Questions / practical task / quiz
6	0	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
7	0	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
8	0	Knowledge and applied skill	Discussion	Questions / practical task / quiz
9	0	Knowledge and applied skill	Exercises	Questions / practical task / quiz
10	0	Knowledge and applied skill	Final review	Questions / practical task / quiz
11	0	Knowledge and applied skill	Core concepts	Questions / practical task / quiz
12	0	Knowledge and applied skill	Applied examples	Questions / practical task / quiz
13	0	Knowledge and applied skill	Discussion	Questions / practical task / quiz
14	0	Knowledge and applied skill	Exercises	Questions / practical task / quiz
15	0	Knowledge and applied skill	Final review	Questions / practical task / quiz