

**Ministry of Higher Education and Scientific Research Scientific
Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024

Academic Program Description Form

University Name: Tikrit University

Faculty/Institute: Petroleum Process Engineering

Scientific Department: Petroleum and Gas Refining Engineering

Academic or Professional Program Name: Undergraduate - Bachelor of Science in Petroleum and Gas Refining Engineering

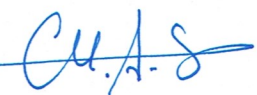
Final Certificate Name: Bachelor of Science in Petroleum and Gas Refining Engineering

Academic System: Annual

Description Preparation Date: 15/03/2024

File Completion Date: 15/03/2024

Signature:



Head of Department name:

Asst. Prof. Muayad A. Shihab

Date: 15/03/2024

Signature:



Scientific Associate name:

Asst. Prof. Umer Y. Dhayea

Date: 15/3 /2024

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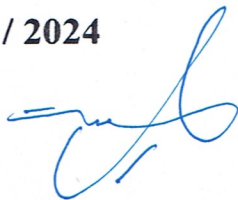
Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Asst. Lect. Ayoub I. Mohammed

Date: 15/03/2024

Signature:



Asst. Prof. Ghassan H. Abdullah

Date: 5/4/2024

Approval of the Dean

1. Program Vision
Improving the department's educational level using the most recent ways.
2. Program Mission
Providing community service by developing the Petroleum sector in the governorate and across the nation.
3. Program Objectives
<p>1- Providing students with the fundamentals of scientific knowledge in the field of Petroleum and gas refining engineering, as well as developing their professional skills in the areas of analytical and creative thinking through the use of information technologies, data analysis, and modern experimental methods in problem formulation and solution.</p> <p>2- Preparing well-qualified engineers to enhance petroleum process engineering operations and handle dealings with them in all aspects of life, particularly in the petroleum industry.</p> <p>3- Conducting academic research to stay up with the world scientific process, as well as applied research to turn engineering knowledge and ideas into practical reality by solving the country's challenges in all domains.</p> <p>4- Contributing to the country's reconstruction in the petroleum and petrochemical industries sectors by providing engineering consultations, preparing economic feasibility studies, project designs, and technical services.</p> <p>5- Implementing scientific sobriety as a characteristic of this department in line with international rules and standards.</p>
4. Program Accreditation
N. A.
5. Other external influences

(Only different state institutions provide summer internship for third-year students.)

6 Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews•
Institution Requirements	7	18	11%	/
College Requirements	9	32	20%	/
College Requirements	22	112	69%	/
Summer internship	1	/	/	/
Others	/	/	/	/

* This can include notes whether the course is basic or optional.

7. Program Description				
Year/Level	Course Code	Course Name	Credit Hours	
			theoretical	practical
Four years	BSc-PGR	Bachelor of Science in Petroleum and Gas Refining Engineering	176	56
8. Expected learning outcomes of the program				
<p>Knowledge</p> <p>A1- Broad education to understand the impact of engineering solutions globally and economically.</p> <p>A2: The ability to collaborate in interdisciplinary teams.</p> <p>A3- The ability of applying cognitive sciences such as mathematics, as well as applied and pure sciences.</p> <p>A4- The ability to use modern methods, skills, and engineering tools in the petroleum and petrochemical sectors.</p> <p>A5- The ability to build petroleum and petrochemical facilities that satisfy the necessary requirements while remaining within realistic cost limits.</p> <p>A6- The ability to develop and perform experiments, analyze data, and translate them practically.</p>				
<p>Skills</p> <p>B1- Developing and enhancing the student's ability to utilize design programs in their area of specialty.</p> <p>B2- Developing and improving the student's ability to cope with new technology relevant to the course terminology.</p> <p>B3- Improving the student's ability to face challenges and dilemmas and find acceptable answers to them.</p> <p>B4- Developing and improving the student's ability to apply academic knowledge in real-world situations.</p>				
<p>Ethics</p> <p>C1- The ability to make decisions.</p> <p>C2- Student-driven innovation methods.</p> <p>C3: The student's ability to think.</p> <p>C4- Collecting the necessary data to complete a certain subject.</p> <p>C5. Encouraging students' creative thinking and keeping up with the most recent scientific approaches for teaching and learning.</p>				
9. Teaching and Learning Strategies				
<ol style="list-style-type: none"> 1. Introducing course syllabus to students (lectures). 2. Numerous examples are provided to demonstrate the basic principles. 3. A standardized problem-solving approach that can be applied to any problem. 4. Use figures, drawings, and graphs to offer extensive explanations and reinforce what the learner is reading. 5. At the conclusion of each chapter, self-assessment exams with answers are provided to measure learning progress. 				

6. Discussing and solving many problems in tutorial sessions, which enables collaboration with one or more colleagues to share ideas and debate the content.
7. Assigning activities, such as drafting research papers, to help students develop self-learning and presenting abilities.
8. Conducting quizzes.
9. Taking semester and final examinations on the designated dates.
10. Informing students about how grades are calculated for students during the semester and their exam results, and discussing failures and successes.
11. Informing students of the textbooks and reference books they need in the course and make a questionnaire for previous years in order to improve the curriculum, improve the performance of teaching staff, and raise the scientific level of the student.
12. Training students in various state institutions (third stage).

10. Evaluation methods

1. Monthly and final exams.
2. Short assessment and classroom involvement.
3. Submitting homework, research papers, and scientific reports.
4. Laboratory work.

11. Faculty						
Faculty Members						
Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Professor	1	2			1	2
Assistant Professor	1	5			6	-
Lecturer	-	10			8	2
Assistant Lecturer	4	4			8	-

Professional Development
Mentoring new faculty members
Preparation programs in the form of open lectures and seminars with training workshops that include: <ol style="list-style-type: none"> 1. Introducing new faculty members to the university's vision, mission, organizational structure, policies and procedures. 2. Enabling new faculty members to obtain a better understanding of their rights and obligations in addition to the rights and duties of students. 3. Providing new faculty members with detailed information about the facilities and services of the university, college, and department. 4. Introducing new faculty members to the quality of the academic program and program accreditation. 5. Introducing new faculty members to learning resources and scientific research programs.
Professional development of faculty members <ol style="list-style-type: none"> 1. Using current teaching methods and techniques. 2. Sharing experiences with academics from various institutions and universities. 3. Help evaluate, construct, and analyze the curriculum. 4. Continuous course assessment based on comments from instructors and students. 5. Be open to new experiences.

12. Acceptance Criterion
<ol style="list-style-type: none"> 1. High school graduates (applied branch). 2. Admission is open to both male and female. 3. The Central Admissions Department of the Ministry of Higher Education and Scientific Research determines the minimal acceptance grades. 4. The desire of the student or guardian to study in the department.
13. The most important sources of information about the program
<ol style="list-style-type: none"> 1. textbooks. 2. The teaching staff. 3. Workshops, seminars and conferences. 4. Websites and electronic library. 5. The local market and its needs.
14. Program Development Plan
<ol style="list-style-type: none"> 1. Continuously updating the curriculum to keep pace with the curricula of international and established universities and the needs of the local market. 2. Increase interest in the practical aspect by providing modern educational laboratory equipment and opening new laboratories. 3. Providing modern textbooks and reference books from international publisher to the department's library. 4. Incorporating scientific and technological developments at the global level into school curricula and practical experiences. 5. Design and implement development programs in the form of open lectures and seminars with training workshops for teaching and professional staff. 6. Make memorandums of understanding with state institutions in the field of exchanging experiences and conducting scientific research and studies.

Program Skills Outline															
				Required program Learning outcomes											
Year/Level	Course Code	Course Name	Basic or optional	Knowledge				Skills				Ethics			
				A1	A2	A3	A4	B1	B2	B3	B4	C1	C2	C3	C4

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

Course Description Form

1. Course Name:	
English language IV	
2. Course Code:	
PPE 409	
3. Semester / Year:	
first and second semester	
4. Description Preparation Date:	
12/3/2024	
5. Available Attendance Forms:	
In person	
6. Number of Credit Hours (TOTAL) / Number of Units (TOTAL)	
60 hours – 2 units	
7. Course administrator's name (mention all, if more than one name)	
Name: Ahmed Mahmood Shihab Email: ahmed.m.shihab@tu.edu.iq	
8. Course Objectives	
Course Objectives	<ul style="list-style-type: none"> • Expand vocabulary knowledge and develop learning strategies. • Enhance all four language skills: reading, writing, listening and speaking. • Expose students to different cultures and perspectives
9. Teaching and Learning Strategies	
Strategy	<p>Discussion: students exchange opinions and thoughts about certain subject.</p> <p>Cooperative learning: students work in team to complete assignment.</p> <p>Problem – Solving: students apply critical thinking skills to solve the problem.</p>

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2 hours	General tense, compound words, applying for hobs.	No place like home	Theoretical	Class participation
2	2 hours	General tense, compound words, applying for hobs	No place like home	Theoretical	Quizzes
3	2 hours	Present perfect, hot verbs, exclamations	Been there, done that!	Theoretical	Self-assessment
4	2 hours	Present perfect, hot verbs, exclamations	Been there, done that!	Theoretical	Direct questions
5	2 hours	Narrative tense, showing interest and surprise.	What a story!	Theoretical	Self-assessment
6	2 hours	Narrative tense, showing interest and surprise.	What a story!	Theoretical	Class participation
7	2 hours	Question and negative, prefixes, linking ideas	Nothing but the truth	Theoretical	Quizzes
8	2 hours	Question and negative, prefixes, linking ideas	Nothing but the truth	Theoretical	Self-assessment
9	2 hours	Form future, hot verbs, telephone conversation	An eye to the future	Theoretical	Direct questions
10	2 hours	Exam	Exam	Theoretical	Exam
11	2 hours	Form future, hot verbs, telephone conversation	An eye to the future	Theoretical	Class participation
12	2 hours	Expressions of quantity, business expressions	Making it big	Theoretical	Quizzes
13	2 hours	Expressions of quantity, business expressions	Making it big	Theoretical	Self-assessment
14	2 hours	Model verbs, hot verbs, exaggeration and understatement	Getting on together	Theoretical	Direct questions
15	2 hours	Exam	Exam	Theoretical	Exam
16	2 hours	Model verbs, hot verbs, exaggeration and understatement	Getting on together	Theoretical	Class participation
17	2 hours	Relative clause, adverbs, describing places	Going to extremes	Theoretical	Quizzes
18	2 hours	Relative clause, adverbs, describing places	Going to extremes	Theoretical	Self-assessment
19	2 hours	Expressions habit, homonymous, make your point	Things ain't what they used to be!	Theoretical	Direct questions
20	2 hours	Expressions habit, homonymous, make your point	Things ain't what	Theoretical	Exam

			they used to be!		
21	2 hours	Medal auxiliary, synonyms,	Risking life and limb	Theoretical	Class participation
22	2 hours	Medal auxiliary, synonyms,	Risking life and limb	Theoretical	Quizzes
23	2 hours	Hypothesizing, word pairs, have you ever wondered	In your dreams	Theoretical	Self-assessment
24	2 hours	Hypothesizing, word pairs, have you ever wondered	In your dreams	Theoretical	Direct questions
25	2 hours	Articles, hot words	It's never too late	Theoretical	Self-assessment
26	2 hours	Articles, hot words	It's never too late	Theoretical	Class participation
27	2 hours	Writing skills	Writing skills	Theoretical	Quizzes
28	2 hours	General	Grammar	Theoretical	Self-assessment
29	2 hours	Pronunciation, vocabulary	Speaking skills	Theoretical	Direct questions
30	2 hours	Exam	Exam	Theoretical	Exam

11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily exams, reports

12. Learning and Teaching Resources

Required textbooks (curricular books, if any)	Headway Plus upper intermediate – Student Book and Activity
Main references (sources)	Grammar in use
Recommended books and references (scientific journals, reports ...)	Grammar in use
Electronic References, websites	https://www.youtube.com/watch?v=l85akX7Pu60