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Report version

Shat Al-Arab University/ College of Engineering – Gas and Oil Department

Address: Basra, Iraq

Name of University President: Prof. Dr. Taher Mohsen Mansour Al-Ghalibi

Name of University V.P. FSA: Asst. Prof. Dr. Haider Nasser Khuraibet

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Email of

Mobile No.

Academic Year 2025-2026

Number of Departments with BP

2

Number of Academic Staff

5

Number of Female Academic Staff

3

Number of B.Sc. Students: 221

Number of Female B.Sc. Students

71

تقرير التقييم الذاتي لمسار بولونيا لكلية الهندسة للعام الدراسي 2025-2026

لجنة كتابة تقرير التقييم الذاتي لمسار بولونيا		
ت	الاسم	المنصب
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2	م.د. جواد كاظم	معاون العميد للشؤون العلمية
3	م.م. احمد عبد الرزاق	مسؤول شعبة ضمان الجودة في الكلية

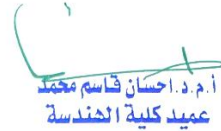
مصادقة السيد رئيس الجامعة



التوقيع:

الاسم: أ.د. طاهر محسن منصور

مصادقة السيد عميد الكلية



أ.م.د. احسان قاسم محمد
عميد كلية الهندسة

التوقيع:

الاسم: أ.م.د. احسان قاسم محمد

نبذة عن كلية الهندسة

تم تأسيس كلية الهندسة في جامعة شط العرب عام 2024، وذلك عقب صدور القرار الوزاري القاضي بتحويل كلية شط العرب الجامعة إلى جامعة رسمية. تهدف الكلية إلى دعم البنية التحتية البشرية في القطاع الهندسي من خلال إعداد كوادر هندسية مؤهلة تلبي احتياجات سوق العمل المحلي في العراق، مع تركيز خاص على محافظة البصرة والمنطقة الجنوبية..

Engineering Overview – College of Engineering

The College of Engineering was established in 2024 following the ministerial decree that transformed Al-Shatt Al-Arab University College into a full-fledged university. The college aims to strengthen Iraq's engineering workforce by preparing highly qualified engineers to meet the demands of the national labor market, with a particular focus on Basra Governorate and the southern region.

الأقسام الأكاديمية الحالية والمستقبلية

- **قسم الهندسة المدنية:** يشكل النواة الأساسية للكلية، ويُعنى بتأهيل مهندسين في مجالات التصميم الإنشائي، إدارة المشاريع، هندسة النقل، والموارد المائية.
- **قسم هندسة النفط والغاز:** يهدف إلى إعداد مهندسين متخصصين في استكشاف وإنتاج ومعالجة الموارد الهيدروكربونية، بما يتماشى مع متطلبات قطاع الطاقة في العراق.

Current and Upcoming Academic Departments:

- **Department of Civil Engineering:** Serves as the foundational unit of the college, specializing in structural design, project management, transportation engineering, and water resources.
- **Department of Petroleum and Gas Engineering:** Designed to produce engineers skilled in exploration, production, and processing of hydrocarbon resources, aligned with the needs of Iraq's energy sector.

الرؤية المستقبلية

تتبنى الكلية خطة تطوير استراتيجية لافتتاح أقسام هندسية إضافية، مع التركيز على التخصصات ذات الطلب العالي في كل من القطاع الحكومي والقطاع الخاص، مثل:

- هندسة الطاقة المتجددة
- هندسة الحاسبات
- هندسة الاتصالات
- هندسة البيئة

تهدف هذه التوسعات إلى تعزيز التكامل بين مخرجات التعليم الهندسي ومتطلبات التنمية الصناعية والاقتصادية في البلاد. كذلك تهدف إلى التميز في تقديم الخدمات التعليمية والبحثية في كافة مجالات الهندسة والتكنولوجيا وإعداد المتخصصين من المهندسين الذين يمكن أن يتقلدوا المراكز المختلفة في الدولة والقطاع الخاص بما يساهم في تطوير المجتمع والاقتصاد المحلي والإقليمي وفي نفس الوقت إعدادهم كمواطنين صالحين مؤمنين بالقيم الانسانية والاخلاقية ومدركين لمسؤوليتهم تجاه دينهم ووطنهم وشعبهم.

Strategic Vision:

The college is pursuing an ambitious development plan to introduce additional engineering departments, emphasizing disciplines that are in high demand across both public institutions and the private sector, such as:

- Renewable Energy Engineering
- Computer Engineering
- Communications Engineering
- Environmental Engineering

This expansion strategy is intended to align academic output with the evolving industrial and economic landscape of the country. The college also aspires to excel in delivering high-quality educational and research services across all fields of engineering and technology. It is committed to preparing specialized engineers capable of assuming diverse roles within governmental institutions and the private sector, thereby contributing to the advancement of society and the development of both the local and regional economy. Simultaneously, the college emphasizes the cultivation of responsible citizens who uphold human and ethical values and are fully aware of their duties toward their faith, homeland, and community.

سياسة ضمان الجودة لمسار بولونيا في كلية الهندسة جامعة شط العرب

أولاً: مقدمة

تستند سياسة ضمان الجودة في كلية الهندسة على سياسة الجامعة في هذا المجال بصفتها مؤسسة رائدة للتعليم العالي في العراق، وتهدف إلى تحقيق التميز الأكاديمي والارتقاء بجودة مخرجاتها التعليمية بما يتوافق مع المعايير الدولية. وفي هذا السياق، تسعى الكلية إلى تبني معايير مسار بولونيا لضمان جودة التعليم العالي، بما يضمن توفير بيئة تعليمية محفزة، وإنتاج خريجين مؤهلين لسوق العمل، والمساهمة في التنمية المستدامة للبلاد.

Quality Assurance Policy for the Bologna Process

College of Engineering – Shatt Al-Arab University

1. Introduction

As a leading institution of higher education in Iraq, the College of Engineering aims to achieve academic excellence and enhance the quality of its educational outcomes in alignment with international standards. In this context, the college is committed to adopting the Bologna Process framework to ensure the quality of higher education, foster a stimulating learning environment, produce graduates equipped for the labor market, and contribute to the sustainable development of the country.

ثانياً: الرؤية

- أن تكون الكلية معترف بها بتميزها الأكاديمي، وجودة مخرجاتها، ومساهمتها في التنمية المستدامة
- تقديم تعليم عالي الجودة من خلال دعم التعليم المتمحور حول الطالب، وتوفير خدمات مجتمعية تساهم في تطوير المجتمع العراقي

2. Vision, Mission, and Objectives

- **Vision:** To be recognized for academic excellence, high-quality outcomes, and impactful contributions to sustainable development.
- **Mission:** To deliver high-quality education through student-centered learning and provide community services that support the advancement of Iraqi society.

ثالثاً: الأهداف

- تطوير برامج أكاديمية متوافقة مع متطلبات سوق العمل والمعايير الدولية.
- رفع كفاءة أعضاء هيئة التدريس والباحثين.
- تحسين بيئة التعلم والتعلم والبحث العلمي.
- تعزيز التعاون الدولي والشراكات الأكاديمية.
- ضمان جودة التعليم والتعلم من خلال تطبيق معايير مسار بولونيا.

3. Strategic Objectives

- Develop academic programs aligned with labor market needs and international standards.
- Enhance the competencies of faculty members and researchers.
- Improve the learning environment and promote scientific research.
- Strengthen international cooperation and academic partnerships.
- Ensure the quality of teaching and learning through the implementation of Bologna Process standards.

رابعاً: آليات ضمان الجودة

- التقييم الذاتي: الداخلي: من خلال إجراء تقييم ذاتي دوري لكافة الخدمات والبرامج.
- التقييم الخارجي: الاستعانة بخبراء خارجيين لتقييم جودة البرامج والمؤسسات.
- متابعة تطبيق معايير الجودة: من خلال متابعة التطورات في تطوير وتطبيق معايير واضحة لضمان الجودة في جميع المجالات
- مؤشرات الأداء: قياس التقدم المحرز من جراء تطبيق مؤشرات ضمان الجودة في مسار بولونيا.
- نظام إدارة البيانات: تطوير نظام متكامل لإدارة للبيانات والمعلومات بهدف جمع وتحليل البيانات المتعلقة بضمان الجودة.

4. Mechanisms of Quality Assurance

- **Internal Self-Assessment:** Conducting periodic evaluations of all services and programs.
- **External Evaluation:** Engaging external experts to assess the quality of programs and institutions.
- **Monitoring Quality Standards:** Tracking the evolution and implementation of clear quality assurance criteria across all domains.
- **Performance Indicators:** Measuring progress through Bologna-aligned quality assurance metrics.
- **Data Management System:** Developing an integrated system for collecting and analyzing quality-related data.

Program Specification

Programmer code:	BSc-CE	ECTS	240
Duration:	4 levels, 8 Semesters	Method of Attendance:	Full Time

• Program Goals

- 1- Contribute to the preparation of specialized engineers in the field of Civil engineering to provide the society with engineering expertise and competencies.
- 2- Rehabilitation graduates to do the planning, design and implementation of engineering projects through the introduction of modern technological means in the curriculum of the department.
- 3- Building an integrated and balanced personality of the graduate and deepen understanding of the moral responsibilities necessary professional future for them and their needs.
- 4- Encourage scientific research by providing all forms of support for him as well as the development of partnership relations between scientific research and scientific problems in all sectors including the service industries.
- 5- Substrate configuration informed sober be reference to solve technical problems in construction projects through the provision of engineering consultancy.

• أهداف البرنامج

- 1- المساهمة في إعداد المهندسين المتخصصين في مجال الهندسة المدنية والنفط لتزويد المجتمع بالخبرات والمهارات الهندسية.
- 2- تأهيل الخريجين للقيام بالتخطيط والتصميم وتنفيذ المشاريع الهندسية من خلال إدخال الوسائل التكنولوجية الحديثة في منهج القسم.
- 3- بناء شخصية متكاملة ومتوازنة للخريج وتعميق فهمه للمسؤوليات الأخلاقية الضرورية لمستقبله المهني واحتياجاته.
- 4- تشجيع البحث العلمي من خلال تقديم جميع أشكال الدعم له وكذلك تطوير علاقات الشراكة بين البحث العلمي والمشكلات العلمية في جميع القطاعات بما في ذلك الصناعات الخدمية.
- 5- تكوين قاعدة مرجعية واعية لحل المشاكل الفنية في مشاريع البناء من خلال تقديم الاستشارات الهندسية.

• Student Learning Outcomes

The Civil Engineering Department at the College of engineering- Shat Al-Arab University offers a program that provides students with the following upon graduation:

1. An ability to apply knowledge of mathematics, science, and engineering.
2. An ability to design and conduct laboratory experiments, as well as to analyze and interpret data.
3. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
4. An ability to function on multi-disciplinary teams.
5. An ability to identify, formulate, and solve engineering problems.
6. An understanding of professional and ethical responsibility.
7. An ability to communicate effectively.
8. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. Recognition of the need for, and an ability to engage in life-long learning.
10. Knowledge of contemporary issues.
11. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

• مخرجات تعلم الطلاب

- يقدم قسم الهندسة المدنية في كلية الهندسة بجامعة شط العرب برنامجاً يزود الطلاب بالمهارات التالية عند التخرج:
1. القدرة على تطبيق المعرفة في مجالات الرياضيات والعلوم والهندسة.
 2. القدرة على تصميم وإجراء التجارب المخبرية، بالإضافة إلى تحليل البيانات وتفسيرها.
 3. القدرة على تصميم نظام أو مكون أو عملية لتلبية الاحتياجات المطلوبة ضمن قيود واقعية مثل الاقتصادية والبيئية والاجتماعية والسياسية والأخلاقية والصحية والسلامة وقابلية التصنيع والاستدامة.
 4. القدرة على العمل ضمن فرق متعددة التخصصات.
 5. القدرة على تحديد وصياغة وحل المشكلات الهندسية.
 6. فهم المسؤولية المهنية والأخلاقية.
 7. القدرة على التواصل بفعالية.
 8. التعليم الواسع الضروري لفهم تأثير الحلول الهندسية في السياق العالمي والاقتصادي والبيئي والاجتماعي.
 9. الاعتراف بالحاجة إلى، والقدرة على المشاركة في التعلم مدى الحياة.

10. معرفة القضايا المعاصرة.

11. القدرة على استخدام التقنيات والمهارات والأدوات الهندسية الحديثة اللازمة للممارسة الهندسية.

قسم هندسة النفط والغاز:

• الكادر التدريسي.

ت	اسم التدريسي	الكلية/ القسم	الشهادة	اللقب العلمي	التخصص العام	التخصص الدقيق
1	عماد حسن رضا الخرسان	الهندسة/ النفط والغاز	دكتوراه	استاذ	علوم جيولوجي	جيوفيزياء
2	مصطفى كامل جودة	الهندسة/ النفط والغاز	ماجستير	مدرس	علوم كيمياء	كيمياء عضوية
3	نور الهدى قاسم عبد الحسن	الهندسة/ النفط والغاز	ماجستير	مدرس مساعد	علوم جيولوجي	جيوفيزياء
4	ديالا سعدالله عماد	الهندسة/ النفط والغاز	ماجستير	مدرس مساعد	هندسة مدني	مائية وري
5	عذراء طاهر ابراهيم	الهندسة/ النفط والغاز	ماجستير	مدرس مساعد	هندسة بيئة وتلوث	انشاءات

• إحصائيات القسم:

1- اعداد الطلبة حسب المراحل (ذكور واناث) للدراستين الصباحية والمسائية

ت	المرحلة	صباحي		مسائي		المجموع
		ذكور	اناث	ذكور	اناث	
1	الاولى	150	71	-	-	221
2	الثانية					

2- المستلزمات المادية والخدمية وتشمل: القاعات الدراسية:

رقم القاعة	الطاقة الاستيعابية	المراحل الدراسية
26	90	جميع المراحل
28	68	جميع المراحل
29	68	جميع المراحل

المختبرات:

المواد الدراسية	عدد الاجهزة	رقم المختبر
علم الطبقات والرسوبيات	30	1
الحاسبات	30	2
الكيمياء	10	3
الرسم الهندسي	30	4

• Credits, Grading and GPA

GRADING SCHEME				
مخطط الدرجات				
Group	Grade	التقدير	Marks (%)	Definition
Success Group (50 - 100)	A – Excellent	امتياز	90-100	Outstanding Performance
	B - Very Good	”جيد جدا	80-89	Above average with some errors
	C – Good	جيد	70-79	Sound work with notable errors
	D – Satisfactory	متوسط	60-69	Fair but with major shortcomings
	E – Sufficient	مقبول	50-59	Work meets minimum criteria
	FX – Fail	راسب قيد المعالجة	45-49	More work required but credit awarded
	F – Fail	راسب	0-44	Considerable amount of work required
Marks with example a University has the original	decimal places above or below 0.5 will be rounded to the higher or lower full mark (for mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by marker(s) will be the. automatic rounding outlined above.			

• Calculation of the Cumulative Grade Point Average (CGPA)

Curriculum/Modules

First Stage

Semester 1 | 30 ECTS |

Code	Module	SSWL	USSWL	ECTS	Type	Prerequisite Module
BEP111	General Geology	94	75	6	Basic	-
BEP112	Calculus I	77	48	5	Basic	-
UOB103	Computer I	124	101	6	Basic	-
BEP113	Physics	24	58	4	Core	-
BEP114	Statics Mechanical Engineering	47	53	4	Basic	-
UOB102	Democracy and Human Rights	32	18	3	Supportive	-
UOB104	Arabic Language I	33	17	2	Basic learning activity	-

develop and implement solutions.

7. Preparing for careers in technology: Many careers in technology require knowledge of computer programming. Studying computer programming can help learners prepare for careers in fields such as software development, web development, data science, and cybersecurity.

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP113	Physics	24	58	100	4	1

Description

1. To provide students with a thorough understanding of the basic concepts of physics and the methods scientists use to explore natural phenomena, including observation, hypothesis development, measurement and data collection, experimentation, evaluation of evidence, and employment of mathematical analysis.
2. To instruct students of the fundamental laws of physics and the application of scientific data, concepts, and models for use in the natural sciences and real-world situations.
3. To provide students with problem solving skills by an approach that describes physical phenomena with relevant mathematical models and formulae.
4. To develop the student's mathematical ability to manipulate formulae and derive correct numerical solutions that can be measured in the real world.
5. To have students effectively use computers as a tool for data collection, analysis, and communication.

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP114	Statics Mechanical Engineering	47	53	100	4	1

Description

1. Developing a strong foundation in mathematics, physics, and other fundamental sciences that underpin mechanical engineering.
 2. Learning key principles of mechanics, dynamics, thermodynamics, and materials science, and how they apply to the design and analysis of mechanical systems.
 3. Developing proficiency in computer-aided design (CAD) and other software tools used in mechanical engineering.
 4. Developing skills in the design, analysis, and optimization of mechanical systems, including structures, machines, and mechanisms.
 5. Learning about manufacturing processes, materials selection, and quality control, and how these factors impact the design and performance of mechanical systems.
 6. Developing an understanding of the social, environmental, and economic implications of mechanical engineering, and the importance of ethical and sustainable design practices.
 7. Developing strong communication and teamwork skills, which are essential for success in the industry.
- Overall, the aim of mechanical engineering modules is to provide students with a comprehensive understanding of the principles and practices of mechanical engineering, and to prepare them for successful careers in the field.

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
UOB102	Democracy and Human Rights	32	18	75	3	1

Description

1. Introducing students to the basic principles of human rights and clarifying those rights according to various sources. 2. Addressing the basic concepts of democracy and its historical development. 3. The ultimate goal of human rights education is people working together to bring about human rights, justice, and fear for all. 4. Connecting the students of the Faculty of Engineering with the practical reality, especially since most of the student's dealings are within the framework of private institutions. 5. Shedding light on the legal status of engineers in the event of a contract with them, as well as stating their material and moral rights, in a more specific way. 6. Creating a student who knows his rights and his duties, and this matter is necessary for every student, regardless of his field of specialization

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
UOB104	Arabic Language I	33	17	50	2	1

Description

- 1.The student's understanding of the aesthetics of the Quranic style and its rhetorical brilliance will enable him to become the ideal model in composition and expression.
2. Developing students' spelling skills
3. Helping the student learn the correct way to write and read numbers and to write the hamza (glottal stop) in its various forms.
4. Reviewing Arabic grammar rules to avoid students making grammatical mistakes.
5. Developing the student's skills in appreciating the beauty of literary expression and imitating beautiful texts in writing.
6. Helping the student to identify common linguistic errors and guiding him to correct them.
7. Developing the skills of memorization and recitation.

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP121	Stratigraphy & Sedimentary	109	91	150	6	2

Description

1. Stratigraphy Gives Students Techniques for Working Out Earth History, It Integrates Diverse Materials into A Coherent View of How the Earth and Its Life Forms Evolved.
2. Though Stratigraphy (Literally Writing About Strata) Is Mostly About Working Out the History of Sedimentary Rocks, In Order to Do This You Also Need to Know the Effects Of Magmatism, Metamorphism, Tectonism, Climatic Change, And Sea-level Changes, And the Effects of Organic Evolution.
3. Stratigraphy Integrates Data and Concepts from Many Specialties, And In Practice ends up as a much more comprehensive study than its name Implies.
4. Stratigraphy also lets you test ideas on how varying combinations of processes affect the planets through Time. for example, As Evidence for Continental Drift and Changing Climates, Wegener (1915) Used The Presently Separated Positions of Carboniferous Mosasaurs-bearing and Glacial Sediments, Which Were Most Plausibly Explained by an Originally Compact Supercontinent.
5. Together, History and Process Let You Work Out How, When, And Why Environments Changed Through Time.
6. Stratigraphy, Perhaps Most Importantly, Also Helps You to Understand How Many Economic Materials Formed and Got Distributed in The Way They Did – And So Will Hopefully Help You Find More. For Example, The Webley Field Is One of Many Isolated Oil and Gas Reservoirs in The Middle Triassic In Alberta, Canada.
7. Finding Out Why the Oil Is There, And Where Other Similar Oil and Gas Fields Are, Requires You to Proceed Logically Through The Various Phases of Stratigraphy. First, What Are The Actual Oil-bearing Rocks And

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP122	Calculus II	62	38	100	4	2

Description

1. Developing logical thinking: Mathematics provides a rigorous framework for logical thinking and problem-solving, which can be applied in many other areas of study and life.
 2. Establishing axioms and proving theorems: Mathematics aims to establish a set of axioms or assumptions and then use them to prove theorems or propositions that follow logically from those assumptions.
 3. Understanding abstraction: Mathematics involves abstraction, which is the process of identifying essential characteristics of objects or concepts and ignoring irrelevant details. This helps in developing a deeper understanding of the underlying structure of mathematical objects.
 4. Developing critical thinking: Mathematics encourages critical thinking by requiring students to analyze problems, identify patterns, and evaluate different approaches to solving them.
- Practical aims of mathematics include:
1. Solving real-world problems: Mathematics has practical applications in fields such as physics, engineering, finance, and computer science, where it is used to model and solve real-world problems.
 2. Developing quantitative reasoning skills: Mathematics helps in developing quantitative reasoning skills, which are essential for making informed decisions in many areas of life, such as personal finance, health, and politics.
 3. Enhancing computational skills: Mathematics provides a foundation for developing computational skills, which are increasingly important in the digital age.
 4. Fostering creativity: Mathematics can be a creative field where students can develop their own ideas and solutions to problems.

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP123	General Chemistry	124	101	175	7	2
Description						
1. Developing an understanding of the fundamental concepts and principles of chemistry, such as atomic theory, chemical bonding, stoichiometry, and thermodynamics. 2. Developing skills in problem solving, critical thinking, and laboratory techniques through hands-on experiments and exercises. 3. Learning the language of chemistry, including the nomenclature of compounds and the use of symbols, formulas, and equations. 4. Understanding the role of chemistry in everyday life and in other fields of science, such as biology, physics, and environmental science. 5. Developing an appreciation for the scientific method and the importance of experimental design, data analysis, and interpretation. 6. Understanding the ethical and safety considerations associated with chemical research and experimentation. 7. Preparing students for further study in chemistry or related fields, such as biochemistry, chemical engineering, materials science, or medicine. Overall, the goal of a general chemistry course/module is to provide students with a solid foundation in the principles and methods of chemistry, as well as to foster an appreciation for the beauty and importance of this field of science.						

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP124	Engineering Drawing and AutoCad	94	56	150	6	2
Description						
1. Developing an understanding of the principles of technical drawing, including orthographic projection, isometric projection, and sectioning. 2. Developing skills in creating and interpreting engineering drawings, including freehand sketching and computer-aided design (CAD). 3. Understanding the importance of accurate and precise technical drawings in engineering design and production. 4. Developing an appreciation for the role of engineering drawings in communication among engineers, manufacturers, and other stakeholders. 5. Learning the language of engineering drawing, including the use of symbols, dimensions, and scales. 6. Developing skills in problem-solving, critical thinking, and visualization through hands-on drawing exercises and projects. 7. Understanding the ethical and safety considerations associated with engineering design and production. 8. Preparing students for further study in engineering or related fields, such as architecture, product design, or manufacturing.						

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
BEP125	Dynamics Mechanical Engineering	47	53	100	4	2
Description						
1. The student acquires the skill of dealing with engineering mechanics, as it is one of the scientific engineering foundations involved in most practical fields. 2. Clarify the concept of kinesiology and its applications. 3. The course aims to give the student a new background that he can use to solve most of the engineering problems that he encounters in this field. 4. The student learns about some mechanical equipment and how to deal with it through engineering workshops.						

Code	Module title	SSWL	USSWL	SWL	ECTS	semester
UOB101	English language I	62	13	150	3	2
Description						
1. Developing language proficiency: The primary aim of studying the English language is to become proficient in using it for communication. This includes developing skills in speaking, listening, reading, and writing in English. 2. Enhancing personal and professional opportunities: English is widely used as a global language in business, academia, and other fields, so learning it can open up opportunities for personal and professional growth. 3. Improving cultural understanding: English-speaking countries have diverse cultures and histories, and studying the language can help learners gain a better understanding of these cultures and their perspectives. 4. Accessing information and resources: Much of the world's information and resources are available in English, so learning the language can enable learners to access a wider range of materials and knowledge. 5. Developing critical thinking and communication skills: Studying the English language can help learners develop critical thinking and communication skills, as they learn to analyze and express ideas in a clear and effective manner. 6. Fostering intercultural communication: As a global language, English is often used as a means of communication between people of different cultures and backgrounds. Studying the language can help learners develop the skills needed to communicate effectively in intercultural settings.						

الاستنتاجات:

أن تبني معايير مسار بولونيا يعد خطوة مهمة نحو تحقيق التميز الأكاديمي في الكلية. ومن خلال تطبيق هذه السياسة، ستمكن الكلية من رفع جودة مخرجاتها التعليمية، وتعزيز مكانتها كمركز للتعليم والبحث العلمي في المنطقة.

Conclusion:

Adopting the Bologna Process standards represents a significant step toward achieving academic excellence at the College of Engineering. Through the implementation of this policy, the college will enhance the quality of its educational outcomes and solidify its position as a regional hub for education and scientific research.



Republic of Iraq - Ministry of Higher Education and Scientific Research

Name of University: Shat Al-Arab University

Bachelor's degree in Oil and Gas Engineering (First cycle)

Four years (Eight semesters) - 240 ECTS credits - 1 ECTS = 25 hr

Program Curriculum (2024 - 2025)

جمهورية العراق - وزارة التعليم العالي والبحث العلمي

اسم الجامعة: جامعة شط العرب

بكالوريوس في هندسة النفط والغاز (الدورة الأولى)

أربع سنوات (ثمانية فصول دراسية) - 240 وحدة اوروبية - كل وحدة اوروبية = 25 ساعة

2025-2024



Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semr (hr/w)						
UGI	One	1	BEP111	General Geology	جيولوجيا عامة	English	4				2		2	92	58	150	6.00	C
		2	BEP112	Calculus I	رياضيات I	English	3				1		2	62	63	125	5.00	B
		3	UOB103	Computer I	حاسبات I	English	2		2				2	62	13	75	3.00	B
		3	BEP113	Physics	فيزياء	English	4				2		2	92	83	175	7.00	B
		5	BEP114	Statics Mechanical Engineering	ميكانيك هندسي سكوني	English	3				1		2	62	63	125	5.00	B
		6	UOB102	Democracy and Human Rights	الديمقراطية و حقوق الانسان	Arabic	2						2	32	18	50	2.00	B
		7	UOB104	Arabic Language I	اللغة العربية I	Arabic	2						2	32	18	50	2.00	B
						Total	20	0	2	0	6	0	14	434	316	750	30.00	
	Two	1	BEP121	Stratigraphy & Sedimentary	علم الطبقات و الرسوبيات	English	2		2		2		2	92	58	150	6.00	C
		2	BEP122	Calculus II	رياضيات II	English	3				1		2	62	63	125	5.00	B
		3	BEP123	General Chemistry	كيمياء عامة	English	4		2				2	92	58	150	6.00	B
		4	BEP124	Engineering Drawing and AutoCad	الرسم الهندسي	English	3			3			2	92	58	150	6.00	B
		5	BEP125	Dynamics Mechanical Engineering	ميكانيك هندسي حركي	English	3				1		2	62	63	125	5.00	B
		6	UOB101	English language I	اللغة الانكليزية I	English	2						2	32	18	50	2.00	B
						Total	17	0	4	3	4	0	12	432	318	750	30.00	
UGII	Three	1	BEP231	Static Fluid Mechanics	ميكانيك موائع ساكنة	English	2		2		2		2	92	33	125	5.00	B
		2	BEP232	Fundamental Of Petroleum Engineering I	اسس هندسة النفط I	English	4				2		2	92	58	150	6.00	C
		3	BEP233	Advanced Mathematics I	رياضيات متقدمة I	English	3				1		2	62	38	100	4.00	B
		4	BEP234	Structural Geology	جيولوجيا تركيبية	English	3		2		1		2	92	33	125	5.00	C
		5	BEP235	Mechanics of Materials	مقاومة مواد	English	4				2		2	92	33	125	5.00	B
		6	BEP236	Electrical Engineering Technology	تكنولوجيا الكهرباء	English	2		2				2	62	13	75	3.00	B
		7	UOB201	English language II	اللغة الانكليزية II	English	2						2	32	18	50	2.00	B
						Total	20	0	6	0	8	0	14	524	226	750	30.00	

	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
Four	1	BEP241	Dynamic Fluid Mechanics	ميكانيك موائع حركية	English	2		2		2		2	92	33	125	5.00	B		
	2	BEP203	Computer II	حاسبات II	English	2		2				2	62	13	75	3.00	C		
	3	BEP243	Advanced Mathmatics II	رياضيات متقدمة II	English	3				1		2	62	38	100	4.00	B		
	4	BEP244	Petroleum Geology	جيولوجيا النفط	English	2		2		2		2	92	83	175	7.00	C		
	5	BEP245	Petroleum Properties	خواص نفط	English	2		2		2		2	92	83	175	7.00	C		
	6	UOB205	Crimes of Baath Party	جرائم حزب البعث البائد	Arabic	2						2	32	18	50	2.00	B		
	7	UOB	Arabic Language II	اللغة العربية II	Arabic	2						2	32	18	50	2.00	B		
					Total	15	0	8	0	7	0	14	464	286	750	30.00			
UGIII	Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type
								CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)						
	Five	1	BEP351	Petroleum Reservoir Engineering I	هندسة المكامن النفطية I	English	3					1		2	62	63	125	5.00	C
		2	BEP352	Petroleum Drilling Engineering I	هندسة الحفر I	English	3		2			1		2	92	8	100	4.00	C
		3	BEP353	Petroleum Production Engineering I	هندسة إنتاج النفط I	English	3					1		2	62	88	150	6.00	C
		4	BEP354	Well Logging I	جس ابار I	English	3					1		2	62	63	125	5.00	C
		5	BEP355	Geophysics	جيوفيزياء	English	2					1		2	47	53	100	4.00	B
		6	BEP356	Engineering Analysis & Numerical	التحليلات الهندسية و العددية	English	3					1		2	62	88	150	6.00	B
						Total	17	0	2	0	6	0	12	387	363	750	30.00		
	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL hr/sem	USSWL hr/sem	SWL hr/sem	ECTS	Module Type	
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)							
	Six	1	BEP361	Petroleum Reservoir Engineering II	هندسة المكامن النفطيةII	English	3				1		2	62	63	125	5.00	C	
		2	BEP362	Petroleum Drilling Engineering II	هندسة الحفر II	English	3		2			1		2	92	8	100	4.00	C
		3	BEP363	Petroleum Production Engineering II	هندسة إنتاج النفط II	English	3					1		2	62	88	150	6.00	C
		4	BEP364	Well Logging II	جس ابار II	English	3					1		2	62	63	125	5.00	C
		5	BEP365	Thermodynamics	ديناميك الحرارة	English	3					1		2	62	88	150	6.00	B
		6	BEP366	Pollution & Industrial Safety	تلوث وسلامة صناعية	English	2							2	32	68	100	4.00	B
						Total	17	0	2	0	5	0	12	372	378	750	30.00		

Level	Semester	No.	Module Code	Module Name in English	اسم المادة الدراسية	Language	SSWL (hr/w)						Exam hr/sem	SSWL	USSWL	SWL	ECTS	Module Type
							CL (hr/w)	Lect (hr/w)	Lab (hr/w)	Pr (hr/w)	Tut (hr/w)	Semn (hr/w)		hr/sem	hr/sem	hr/sem		
UGIV	Seven	1	BEP471	Petroleum Reservoir Engineering III	هندسة المكامن النفطية III	English	3				1		2	62	38	100	4.00	C
		2	BEP472	Petroleum Drilling Engineering III	هندسة الحفر III	English	3		2		1		2	92	33	125	5.00	C
		3	BEP473	Petroleum Production Engineering III	هندسة إنتاج النفط III	English	3				1		2	62	63	125	5.00	C
		4	BEP474	Reservoir Management	إدارة مكمنية	English	2		2		2		2	92	58	150	6.00	C
		5	BEP475	Gas Technology	تكنولوجيا الغاز	English	2				2	2	2	92	58	150	6.00	C
		6	BEP476	Secondary Oil Recovery I	طرق استخراج النفط الثانوية I	English	2				2		2	62	38	100	4.00	C
						Total	15	0	4	0	9	2	12	462	288	750	30.0	
	Eight	1	BEP481	Petroleum Reservoir Engineering V	هندسة المكامن النفطية V	English	3				1		2	62	38	100	4.00	C
		2	BEP482	Petroleum Drilling Engineering V	هندسة الحفر V	English	3		2		1		2	92	33	125	5.00	C
		3	BEP483	Petroleum Production Engineering V	هندسة إنتاج النفط V	English	3				1		2	62	63	125	5.00	C
		4	BEP484	Engineering Project	مشروع الهندسي	English	2			2		2	2	92	58	150	6.00	C
		5	BEP485	Reservoir Simulation & analysis	طرق عددية ومحاكاة مكمنية	English	2		2		2		2	92	58	150	6.00	C
		6	BEP486	Secondary Oil Recovery II	طرق استخراج النفط الثانوية II	English	2				2		2	62	38	100	4.00	C
						Total	15	0	4	2	7	2	12	462	288	750	30.0	
						Total	136	0	32	5	52	4	102	3537	2463	6000	240.0	