



Al-Karkh University of Science





**SUSTAINABLE
DEVELOPMENT GOALS**

Introduction

Al-Karkh University of Science is firmly committed to advancing sustainable development through integrated efforts in education, scientific research, and community engagement. The University identifies its responsibility in addressing global sustainability challenges and aligns its plans with the United Nations Sustainable Development Goals (SDGs). Through a wide range of academic, environmental, and social initiatives, it contributes to building a sustainable future at both the national and global levels.



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In 2025, Al-Karkh University of Science conducted a major study on the United Nations Sustainable Development Goals (SDGs). Scopus indexing identified 484 publications, which represent (49.8%) of the total number of manuscripts (972) that directly contributed to one or more of the SDGs. The number of manuscripts in SDG7 was 141, in SDG14 6, and in SDG6 93, reflecting Al-Karkh University's interest in different fields related to energy, health, and the environment.

Moreover, there were about 30 papers on SDG 9, and about 25,23 manuscripts on SDG 11 and SDG 13, respectively. The scientific papers were about 23 of SDG 13 and 20 in SDG 12, which showed the variety of efforts in academic research on sustainability. These included topics such as renewable energy, sustainable water management, excellent health and well-being, climate action, responsible consumption, and high-quality education. Beyond Scopus-indexed publications, faculty and researchers published additional articles in local journals that were not included in Scopus but remained consistent with sustainability goals.



Al-Karkh University of Science

Al-Karkh Side , Haifa St. Hamada Palace, Baghdad, Baghdad, Iraq ☎ 60109319

1,010 Documents ⓘ

304 Authors

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Documents Structure Collaborators Sustainable Development Goals

New: See at one glance Sustainable Development Goals mapped to this organisation

Sustainable Development Goals (SDGs) are specific research areas that are helping to solve real-world problems. Elsevier data science teams have built extensive keyword queries, supplemented with machine learning, to map documents to SDGs with very high precision. Times Higher Education (THE) is using Elsevier SDG data mapping as part of its Impact Rankings. [More about SDGs ↗](#)

SDG contributions

	Goal 2: Zero hunger	14 documents		Goal 10: Reduced inequalities	1 document
	Goal 3: Good health and well-being	120 documents		Goal 11: Sustainable cities and communities	25 documents
	Goal 4: Quality education	3 documents		Goal 12: Responsible consumption and production	20 documents
	Goal 6: Clean water and sanitation	93 documents		Goal 13: Climate action	23 documents
	Goal 7: Affordable and clean energy	141 documents		Goal 14: Life below water	6 documents
	Goal 8: Decent work and economic growth	14 documents		Goal 15: Life on land	13 documents
	Goal 9: Industry, innovation and infrastructure	30 documents		Goal 17: Partnership for the goals	8 documents



SUSTAINABLE DEVELOPMENT GOALS

SDG 1: No Poverty



The University supports social inclusion and equity through community-driven initiatives. In this context, the College of Energy and Environmental Sciences organized a voluntary campaign to distribute 350 food baskets to students residing in dormitories. This creativity reflects the University's commitment to solidarity, reducing financial burdens on students, and promoting social responsibility.



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Additionally, in collaboration with the Sustainable Development Unit and as part of a series of voluntary and community service initiatives, the University of Al-Karkh visited an orphanage for young children in the Al-Sulaikh area of Baghdad. The visit aimed to support vulnerable groups and strengthen the role of academic institutions in community engagement and social responsibility. During the visit, the delegation was officially received by the administration of the care home and was briefed on the range of services provided to the resident children, including accommodation, nutrition, healthcare, and educational support.



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SDG 3: Good health and well-being



The University prioritizes health awareness and community well-being through educational and outreach activities. It aims to raise health awareness and provide an environment that promotes community health.

The Head of the Sustainable Development Unit actively contributed to a lecture titled: "Simple Luxury Today... A Health and Climate Crisis Tomorrow", held at the Baghdad Center for Renewable and Sustainable Energy (5/2/2026). Additionally, participation in the Retek International Forum for Serving Arabian Pilgrims emphasized improving environmental, health, and accommodation services during mass gatherings.



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Moreover, the College of Science of Al-Karkh University of Science conducted a field visit to a specialized care home for individuals with severe disabilities in Baghdad on April 14, 2025, which reflects the institution's commitment to strengthening its societal role and supporting vulnerable groups through direct engagement and humanitarian initiatives. And provided different medical care, rehabilitation support, and daily living assistance for residents. As part of this initiative, several metal beds were donated as a voluntary contribution by the staff and faculty of the College of Science to enhance the quality of care and improve living conditions within the facility.



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SDG 4: Quality education

4

**QUALITY
EDUCATION**



The University considers quality education a cornerstone of sustainable development and is committed to providing an educational environment that supports the achievement of this goal and promotes lifelong learning opportunities for every individual in the community.



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Key contributions include:

1- Participation in the 7th International Scientific Conference on Green Education, highlighting environmental awareness and sustainability curricula entitled: Green Education: The Best Approach to Achieve Sustainable Development. The conference sought to highlight the importance of preserving and improving the environment, focusing on the role of education in promoting environmental awareness and participating in environmental awareness campaigns. The conference also discussed a wide range of topics, including environmental education and sustainable development, and mechanisms for introducing environmental awareness curricula at different levels of education.



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2- Organizing field visits for students to link academic knowledge with practical applications, including renewable energy integration in production sectors. The visit was to the dairy laboratory of the College of Agriculture, in order to support the national product and provide sustainable solutions. On the other hand, this visit comes within the framework of supporting the national product and encouraging students to provide sustainable solutions that enhance cooperation between academic institutions and the productive sectors. The visit included detailed explanations provided by the department's professors about the various production processes, with a focus on how to utilize renewable energy technologies, such as solar and thermal energy, to improve production efficiency and reduce dependence on traditional energy sources.



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3- active involvement in environmental literacy initiatives aimed at spreading awareness across society held at the Journalists Syndicate on the sixth of October 2025.

The University also organized multiple scientific seminars, including:

1- Sustainable Development and Climate Change, which highlighted the most prominent contemporary environmental challenges, especially the impact of climate change on biodiversity and public health

2- Renewable Energy and Its Role in Sustainable Development, the seminar addressed the importance of switching to renewable energy sources and its effective role in reducing environmental pollution and promoting sustainable development, as well as its contribution to building a stable economic and environmental future.



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4- Climate Change in Iraq and Mitigation Strategies, as part of scientific activities aimed at highlighting the current environmental challenges in the country. The symposium addressed the most prominent climate challenges facing Iraq, particularly desertification, water scarcity, and rising temperatures. The lectures focused on the importance of cooperation between academic and governmental institutions in developing practical, sustainable solutions to mitigate the effects of climate change and support environmental development in the country.



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5- The College of Engineering participated in the First International Scientific Forum on Cybersecurity Science and Engineering, held under the theme “Toward a Comprehensive National Vision for Cybersecurity in Iraq”, The college emphasized that its participation in this forum is part of its efforts to promote scientific research and develop academic capabilities in modern technical fields, thereby contributing to supporting an integrated national vision for cybersecurity and strengthening scientific cooperation among educational and research institutions in Iraq



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جامعة الكرخ للعلوم كلية علوم الطاقة والبيئة



برعاية السيد رئيس جامعة الكرخ للعلوم الاستاذ الدكتور جمعة سلمان جواد المحترم وبإشراف عميد كلية علوم الطاقة والبيئة الاستاذ الدكتور رائد نوفي حسان المحترم

يقوم قسم البيئة ندوة علمية تخصصية بعنوان
التغيرات المناخية في العراق وسبل
مواجهتها

المحاضرون



الاستاذ علاء ياسين محمد
قيد استاذ المختبرات استاذ



د. علي جابر عبد الحسن
مدير مختبر استاذ استاذ استاذ



د. احمد حسين تكي
مختبر استاذ استاذ استاذ



أ.م. د. هادي بهاء محمد
مختبر استاذ استاذ استاذ



أ.م. د. سادي سجاد شحادة
مختبر استاذ استاذ استاذ

23 JUNE
2025

الاثنين

محااور الندوة

- تأثير التغيرات المناخية في النظم الغذائية والامن الغذائي
- اثر التغيرات المناخية على الزراعة في العراق ودور الارشاد الزراعي في التخفيف منها والتكيف معها
- دراسة تأثير التغيرات المناخية على البيئة باستخدام نظم المعلومات الجغرافية
- تكيف المحاصيل الاستراتيجية مع التغير المناخي في العراق
- دور الفطريات الخيطية في المعالجة الحيوية للملوثات البيئية





SUSTAINABLE DEVELOPMENT GOALS

SDG7: Affordable and clean energy

7 AFFORDABLE AND CLEAN ENERGY



The University promotes renewable energy adoption and sustainable infrastructure through:

1- Participation in national forums such as the Iraq and the Future of Energy Forum, which included research and dialogue sessions, focusing on the following themes: Economic, Development, Oil, Electricity, Media, Political, Security, Environmental, and Technology Transfer and Localization.



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2- Delivering lectures on Artificial Intelligence in Climate Change Mitigation, "Green Digital Transformation: The Role of Artificial Intelligence in Combating Climate Change" on the fifth of May 2025, in the Remote Sensing Department

3- Organizing workshops "The Effectiveness of UPS Systems for Power Supply and Their Comparison with Other Generation Systems,"

These initiatives aim to enhance energy sustainability, protect infrastructure, and ensure continuity in academic processes.

4- The College of Energy and Environment has installed solar panels to produce renewable electricity and reduce dependence on conventional energy sources.



SUSTAINABLE DEVELOPMENT GOALS





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الهدف	القطر / النوع	الاستعداد	التحدي / المشكلة	الهدف
المسكنة	في تزايد المطالبات في سوق العمل	مستوى التعليم العالي مستوى البحث العلمي	نقص الكفاءات نقص المهارات	الهدف 4: التعليم جودة التعليم
المولد	في تزايد في سوق العمل	مستوى التعليم العالي مستوى البحث العلمي	نقص الكفاءات نقص المهارات	الهدف 4: التعليم جودة التعليم
النظام	في تزايد في سوق العمل	مستوى التعليم العالي مستوى البحث العلمي	نقص الكفاءات نقص المهارات	الهدف 4: التعليم جودة التعليم
5	في تزايد في سوق العمل	مستوى التعليم العالي مستوى البحث العلمي	نقص الكفاءات نقص المهارات	الهدف 4: التعليم جودة التعليم





SUSTAINABLE DEVELOPMENT GOALS

SDG8: Decent work and economic growth

8 DECENT WORK AND ECONOMIC GROWTH



The University contributes to sustainable economic growth by developing the capabilities of its students and the community, and enhancing employment opportunities by:

- 1- Participating in national committees to develop job descriptions for graduates in green fields, including renewable energy, environment, and remote sensing.
- 2- Supporting entrepreneurship through events such as National Creativity and Entrepreneurship Week, which witnessed the launch of the largest student volunteer team for sustainable development in Iraqi public and private universities at Al-Karkh University.



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SDG₁₁: Sustainable cities and communities

**11 SUSTAINABLE CITIES
AND COMMUNITIES**



The university plays a leading role in achieving Sustainable Development Goal 11, which aims to build inclusive, peaceful societies, and reinforces this commitment through its educational programs and community initiatives, striving to create an environment that aligns with the local community's aspirations for a more sustainable future by:

1-The head of the Sustainable Development Unit participated in the preparatory and scientific committee meetings for the Fifth International Conference on Geomatics Technologies and Smart Cities, under the patronage of the Prime Minister and the National Security Advisory, National Center for Spatial Data Management



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2- The College of Engineering at Al-Karkh University of Science organized a panel discussion on the application of geomatics technologies in sustainable urban planning. The session focused on the applications of geomatics techniques in sustainable urban planning, while addressing the challenges facing the city of Baghdad in achieving sustainability. This seminar is part of the university's efforts to raise awareness of the importance of sustainability and the use of modern technology in urban development and improving the quality of life in cities.




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Implementation of geomatics techniques in planning of sustainable cities 22 Feb 2026

GEOMATICS

Geomatics is a scientific and technical discipline concerned with the **collection, processing, analysis, modelling, management, and visualization** of spatially geo-referenced data to support planning, management, and decision-making.

Geomatics involves a wide range of methods and technologies deal with data about **Earth** and the **phenomena arranged on and near its surface**.





SUSTAINABLE DEVELOPMENT GOALS

The College of Engineering, in collaboration with the Renewable Energy and Sustainability Committee, organized an online educational workshop entitled “Smart, Green and Sustainable Cities: Towards an Integrated Framework for Modern Urban Development.”



برعاية

الأستاذ الدكتور جمعة سلمان جواد

رئيس جامعة الكرخ للعلوم

تنظم كلية الهندسة بالتعاون مع لجنة الطاقة

المتجددة والأستدامة

ورشة تعليمية (اونلاين)



المدن الذكية والخضراء والمستدامة : نحو إطار متكامل للتنمية الحضرية الحديثة

الخميس
٢٥/٦/٢٠٢٦
٨:٣٠ - ٧ مساء

إدارة الورشة
أ.م.د. رافع باس حسن

المحاضر
د.مروة محمد احمد
دكتوراة عمارة خضراء



الفئة المستهدفة: الباحثين والمهتمين والمختصين في مجال العمارة والتنمية المستدامة وهندسة البنى التحتية والذكاء الصطناعي والمعلوماتية





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SDG 12: Responsible consumption and production

12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



The university adopts a holistic approach to achieving Sustainable Development Goal 12, which aims to promote sustainable consumption and production patterns. Through its academic and community practices, it aims to guide students and the community toward more responsible ways of consuming and producing resources and encourage sustainable consumption patterns through:

1. The educational lecture was entitled "Single-Use Tools: Between Convenience and Harm."
2. Participation in the Environmental Management System 14001:2015 course at the Ministry of Communications for one week, and received a certificate from the Ministry of Communications website.



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شهادة مشاركة



MOC

وزارة الاتصالات

للنجاح أناس يقدرون معناه ... والمبدعون يحصدون ثمره

انطلاقاً من المبادرة الوطنية لدعم الطاقة وتقليد الانبعاثات

نؤيد مشاركة الدكتورة **اماني ابراهيم محمد** المحترمة

بالدورة التدريبية الحضورية تحت عنوان

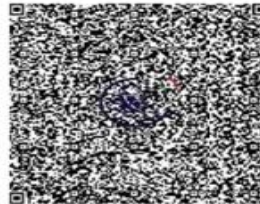
نظام ادارة البيئة وفق المواصفة الدولية ISO14001:2015

التي اقيمت في ديوان وزارة الاتصالات بأشراف مقررية المبادرة الوطنية لدعم الطاقة

للفترة من ٢١-٢٥/كانون الأول/٢٠٢٥

وزارة الاتصالات
نسخة معتمدة

شيماء مظهر صادق
مقررية المبادرة الوطنية
رئيس فريق ايزو طاقة الوطني



ر.مهندسين
مناف محمد سعيد
مدير قسم ادارة الجودة الشاملة
وزارة الاتصالات



SUSTAINABLE DEVELOPMENT GOALS

SDG 13: Climate Action



The University plays an active role in supporting Sustainable Development Goal 13, which focuses on taking urgent action to combat climate change and its impacts. Through its educational and community activities, it aims to raise awareness of environmental challenges and direct efforts toward creating a more sustainable future to address climate change.



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1. Participation in the LCOY Youth Conference on Climate Change, as part of a distinguished panel of Iraqi experts from international organizations. This local conference, held with an international focus, is part of national initiatives undertaken by all countries committed to contributing to environmental development and promoting climate action.
2. The head of the Sustainable Development Unit participated in giving a lecture entitled "Electronic Waste and its Role in Exacerbating the Effects of Climate Change" in cooperation with the Women's Affairs Department at the University, College of Remote Sensing.



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SDG 15: Life on Land

15

**LIFE
ON LAND**



Al-Karkh University of Science organized a tree-planting campaign, which aligned with the national initiative to plant five million trees, to afforest the gardens of the faculties of Energy and Environmental Sciences and Engineering, with a focus on planting evergreen trees that are resistant to different environmental conditions. The campaign came under the slogan “A tree for every student”, with the wide participation of students and professors. This initiative aims to promote environmental awareness among students and foster a culture of caring for green spaces within the university environment, given their role in enhancing the aesthetic appeal of the campus and providing a healthy atmosphere conducive to study and work. The campaign combined academic education and practical application to promote the values of volunteerism and cooperation.



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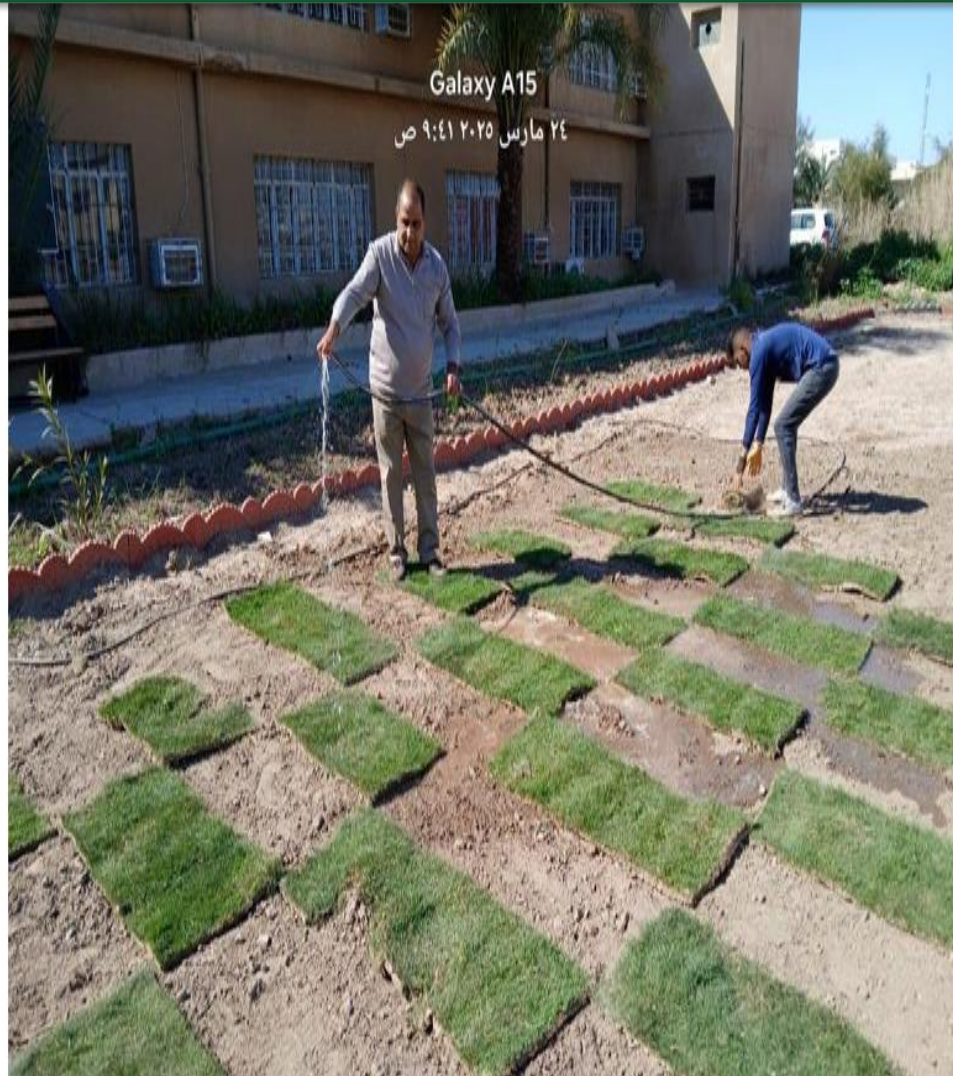
**SUSTAINABLE
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On the other hand, the College of Energy and Environmental Sciences rehabilitates its gardens to preserve green spaces. The committee exerted distinguished efforts by relying on modern scientific methods in the cultivation process to achieve economic feasibility and sustainable development goals, as the soil was reconstructed and installed, orthogonal tillage, land leveling and adjustment, followed by mulching the areas with the Indian wattle plant, which is characterized by its quality and resistance to environmental conditions, in addition to fencing the gardens with colored bricks to give an aesthetic appearance and increase the elegance of green spaces within the college. This step comes as part of a series of measures aimed at creating a beautiful and sustainable university environment that enhances the beauty of the college and provides a comfortable atmosphere for students and affiliates.



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SDG16: peace, justice, and strong institutions

16

**PEACE, JUSTICE
AND STRONG
INSTITUTIONS**



The University supports promoting peaceful and inclusive societies for sustainable development, providing access to justice for all, and building effective, accountable, and inclusive institutions at all levels. The SDGs aim to significantly reduce all forms of violence and work with governments and communities to end conflict and insecurity. Promoting the rule of law and human rights is key to this process.

The College of Engineering at Al-Karkh University of Science Holds an Educational Workshop Titled “Extremism: Between Thought and Behavior



SUSTAINABLE DEVELOPMENT GOALS

The College of Engineering, represented by the University Psychological Counseling Unit and the Women's Affairs Unit, in collaboration with the Continuing Education Unit, held an educational awareness workshop titled "Extremism: Between Thought and Behavior" which addressed the concept of extremism, its intellectual and behavioral causes, and its implications for the individual and society, as well as the role of educational institutions in promoting a culture of moderation and fostering sound intellectual awareness among students.

The College of Engineering Hosts a Book Fair Titled "Human Rights in Thought and Knowledge". The College of Engineering, in collaboration with the Central Library at Al-Karkh University of Science, hosted a book fair dedicated to human rights under the title "Human Rights in Thought and Knowledge" on Thursday, March 12, 2026, within the college's halls, under the supervision of the Student Activities Division.

The exhibition aimed to promote awareness of human rights culture and disseminate related knowledge among students, as well as to highlight the most important publications and scientific sources that addressed the concepts of human rights and freedoms and their role in building societies.



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The exhibition was attended by a number of faculty members and students who viewed a diverse collection of books addressing human rights topics from intellectual, cultural, and legal perspectives. The exhibition served as an important opportunity to promote a culture of reading and knowledge exchange within the university environment.

The organization of this exhibition is part of the college's activities aimed at supporting students' cultural and academic development and encouraging them to explore and conduct research in various fields of knowledge.



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شريعة حمورابي

لدرها العاهل البابلي حمورابي وتمت كتابتها على مسلة كبيرة من الحجر الأسود في ثنين من حكمه الذي دام للفترة (1792 - 1750 ق.م) وتعد هذه المسلة من أشهر لتي اهتمت بحقوق الإنسان بعد إعادته توحيد وادي الرافدين بدولة واحدة. وقد استند في شريعته هذه إلى ما كان معمولاً به من أعراف وقوانين سابقة سواء كانت سومرية تصل على جمعها وتقويتها وتعديلها لتتلائم ومجتمع الدولة الموحدة الجديدة الواسعة

برابي مواد شريعته على عدد من المسلات الحجرية وقام بتقييم الطين ووزعها على دن العراق القديم آنذاك مثل " نقر، أور، الوركاء، سبار، آشور إضافة إلى بابل ". وتألقت شريعة حمورابي من 282 مادة قانونية مدونة باللغة البابلية والخط " ي وتنقسم إلى ثلاثة أقسام رئيسية هي: (المقدمة، المتن، والخاتمة) وينتهي قسمها بنحت بارز للجله شمس إله العدل، اما حمورابي فهو واقف بخضوع.

الشريعة على أكثر من 30 مادة قانونية (المواد 127-164) تعالج قضايا تتعلق بـ:

- شؤون المرأة.
- شؤون الأسرة من زواج وطلاق وأرث وتبني.
- القضاء والشهود والسرقة والنهب.
- شؤون الجيش.
- الزراعة.
- القروض.
- مواد خاصة بالعقوبات والغرامات.

المقدمة المطولة التي بدأ بها حمورابي شريعته تتلمس بوضوح:

- حرصه على سعادة المجتمع البابلي ورفاهيته.
- سيادة القانون والنظام.
- تكديده على أنصاف المظلوم وحماية حقوق الضعيف والأيتام والأرامل.
- الضرب على أيدي المستقلين والمرتبين من الموظفين والجهاد والأميرين في الجيش (المواد 7 - 71 من شريعة حمورابي).

وكان للمرأة في العراق القديم الحق في ممارسة أعمال ومهن مختلفة والقيام بواجبات ضمنها لها المجتمع والقانون، إذ أن نساء سومريات معروفات شاركن أزواجهن الأراء والحكم في الإشراف على شؤون الدولة وتصريف الأمور المالية وجمع الضرائب وتوزيع الأرزاق مناسبات الاحتفالات وكان منهن كاهنات، كما شغلت نساء بلوزات في المجتمع الآشوري مشاركة كبيرة في الدولة. وهناك نص مسماري يعود للقرن الثامن عشر قبل الميلاد يشير إلى وبهذا يكون قد قام العراقيين قد تقدموا على غيرهم من شعوب المنطقة وسبقهم بحوالي (1000 سنة) في وضع الإصلاحات والقوانين التي تحفظ للمجتمع بصورة عامة وللفررد بصورة خاصة حريته وحقوقه وأمنه. إذ لم تتعرف شعوب إيران على شيء من ذلك حتى مطلع القرن السادس قبل الميلاد وبعد احتلتهم المبشر بسكان وادي الرافدين.

بمسل بأشرف ٢٠٠٣ وفاء عبدالمجيد
عمل : سرافق سروراني
رئيسة لجنة
دراسة شريعة حمورابي
دراسة شريعة حمورابي

THE LEGACY OF THE MAGNA CARTA

- MAGNA CARTA 1215
- PETITION OF RIGHT 1628
- HABEAS CORPUS ACT 1679
- ENGLISH BILL OF RIGHTS 1689
- US DECLARATION OF INDEPENDENCE 1776
- CONSTITUTIONS
- UNIVERSAL DECLARATION OF HUMAN RIGHTS 1948
- ICCPR AND ICESCR 1966

Prepared by: Abdullah Zaid Bassam
Supervised by: Wafaa A. Kaabun





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SDG 17: Partnerships For the Goals

**17 PARTNERSHIPS
FOR THE GOALS**



The university is committed to contributing to Sustainable Development Goal 17, which focuses on strengthening global partnerships for shared development goals. Through collaboration with academic institutions and local and international organizations, the college seeks to promote the exchange of knowledge and resources to achieve sustainable progress.

1. The head of the Sustainable Development Unit participated in an online lecture in cooperation with the Continuing Education Center at Al Ain University, entitled Integrating Research with Sustainable Development Goals, and received a letter of thanks and appreciation from the President of Al Ain University.



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2. The head of the Sustainable Development Unit spoke at the closing conference of the Green Documents Project, discussing national sustainable documents issued by relevant national government bodies, including decisions, policies, and circulars, and our national needs for advancing sustainable development in Iraq.
3. Scientific lecture on “Sustainable Buildings: Theoretical and Strategic Orientations” at the College of Energy and Environmental Sciences, pointing out the importance of enhancing cooperation to achieve common goals in the fields of scientific research and environmental sustainability. This lecture is part of a series of scientific activities organized by the college to enhance knowledge and spread awareness of the most important environmental and sustainable energy issues.



SUSTAINABLE DEVELOPMENT GOALS

4. Al-Karkh University of Science cooperated with the Baghdad Cycling Federation and amateur cycling teams and in conjunction with the Student Activities Department, and within the university's efforts to promote a culture of health, environmental and sports awareness and encourage physical activity among members of the university community and achieve sustainable development goals, Al-Karkh University of Science organized a special sports marathon that includes a bicycle race and fast walking, with the participation of several students, professors and employees, with the participation of some students, professors and employees. The marathon, which was held on campus, witnessed a wide attendance from various departments and colleges, where participants were divided into groups according to age groups.



SUSTAINABLE DEVELOPMENT GOALS

5. The event took place amid an atmosphere of enthusiasm and interaction, as participants showed high sportsmanship, reflecting the university's interest in promoting public health and physical fitness among all its affiliates. At the conclusion of the marathon, prizes were distributed to the winners in each category, highlighting the importance of active participation in sports activities to motivate everyone to adopt a healthy lifestyle.





SUSTAINABLE DEVELOPMENT GOALS





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