



**Al-Karkh University of Science
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SDG 15: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

The culture of afforestation is spreading among Iraqis as a result of campaigns and initiatives supported by environmental and agricultural activists and civil society organizations. The government is actively supporting these activities through directives and programs aimed at strengthening the country's response to the many environmental and climatic challenges.

The government has already launched several initiatives, most notably in March 2023 to plant 5 million trees. In turn, civil and environmental organizations have carried out several campaigns to

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Sustainable Development Goals**



educate citizens about environmental protection and the role of trees in achieving this goal.

In Celebration of National Tree Planting Day... The College of Engineering Organized a Tree-Planting Campaign on Campus.

(March 12, 2026)

The College of Engineering at Al-Karkh University of Science organized a tree-planting campaign on campus to coincide with National Tree Planting Day, with the participation of the President of Al-Karkh University of Science, Prof. Dr. Jumaa Salman Jiyad, as well as a number of faculty members, administrative staff, and students from the college.

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.

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The College Dean's Office emphasized that such activities help instill the concepts of volunteerism and social responsibility among students, in addition to their role in fostering interest in the university environment and making it more sustainable.

This campaign is part of a series of environmental activities that the college is keen to organize, in support of efforts aimed at spreading a culture of tree planting and environmental conservation.



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**SDG 7: Ensure access to affordable, reliable,
sustainable and modern energy for all.**

Goal 7 is about ensuring access to clean and affordable energy which is key to the development of agriculture, business, communications, education, healthcare and transportation.

Renewable energy solutions are becoming cheaper, more reliable and more efficient every day. Our current reliance on fossil fuels is unsustainable and harmful to the planet, which is why we have to change the way we produce and consume energy. Implementing these new energy solutions as fast as possible is essential to counter climate change, one of the biggest threats to our own survival.

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**Workshop on the Efficiency of UPS Systems for Power Supply
and Their Comparison with Other Generation Systems.**

As part of Al-Karkh University of Science's efforts to develop infrastructure and promote technical sustainability, the College of Engineering organized a workshop titled "The Effectiveness of UPS Systems for Power Supply and Their Comparison with Other Generation Systems," attended by the University President, Prof. Jumaa Salman Jiyad, the Dean's assistants, department chairs, and faculty members.

The workshop aimed to:

- Protect equipment and laboratories from sudden power outages
- Preserve the integrity of data and research projects
- Ensure the continuity of practical lectures and online exams
- Reduce malfunctions and extend the lifespan of engineering equipment
- Provide a stable and safe learning environment for students and faculty

The workshop, presented by Assistant lecturer. Jinan Abdul

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Hasan Hamza, Head of the Student Activities Unit, and supervised by the Assistant Dean for Administrative Affairs, Assistant Prof. Dr. Hossam Mohammed Jassim, included a detailed explanation of UPS systems and load calculations within the college to ensure it is equipped with the necessary devices.



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**SDG 4: Ensure inclusive and equitable quality
education and promote lifelong learning
opportunities for all.**

The importance of education is due to its decisive influence in shaping values and concepts, contributing to the development of skills and acquiring the appropriate tools for the current generations so that they can live appropriately. Education can be used to instill the principles of sustainable development from a young age, thus shaping the future and present of nations.

Education alone is responsible for achieving a number of the SDGs, most notably SDG 1 (poverty eradication), SDG 2 (hunger

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eradication), SDG 3 (good health and well-being), SDG 4 (quality education), and SDG 5 (gender equality).

Participation of Assistant lecturer(Osama Mohammed Nouri) in the 4th International Conference on Engineering Sciences at the University of Diyala

Assistant lecturer(Osama Mohammed Nouri) from the Department of Artificial Intelligence and Robotics Engineering, College of Engineering, participated in the 4th International Conference on Engineering Sciences at the College of Engineering, University of Diyala, on Thursday, December 11, 2025, with his research titled Classification of Archaeological Fragments Using Data Mining Techniques.

The research aims to develop and test a bias-aware multimodal system for processing archaeological fragments. It focuses on integrating RGB and X-ray data with decorative descriptions, as well as addressing data imbalance, producing a calibrated classification, and providing reusable data storage.

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**The College of Engineering Participates in the First
International Scientific Forum on Cybersecurity Science and
Engineering (February 11, 2026)**

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,” with the participation of a select group of academics, researchers, and specialists from Iraqi universities and scientific institutions.

The College of Engineering’s participation involved its faculty members and researchers attending the forum’s scientific sessions, contributing to discussions on cybersecurity issues and modern technical challenges, as well as reviewing the latest research trends and practical applications in the field of information protection and digital infrastructure.

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

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contributing to supporting an integrated national vision for cybersecurity and strengthening scientific cooperation among educational and research institutions in Iraq.



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**Faculty of Engineering Hosts Seminar on Deep Learning
Technologies (March 17, 2026)**

The College of Engineering organized a specialized scientific seminar titled “Deep Learning: The Key to the New World,” presented by faculty member Dr. Ahmad Adnan Hadi, as part of scientific activities aimed at enhancing knowledge of modern technologies and keeping pace with rapid technological advancements.

The seminar addressed the concepts of deep learning and its most important applications in various fields, particularly in artificial intelligence, data analysis, and cybersecurity. The lecturer reviewed the theoretical and practical foundations of this technology, highlighting its pivotal role in building intelligent systems capable of decision-making.

The session also saw significant engagement from the audience, as numerous questions and comments were raised,

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enriching the discussion and helping to clarify the practical aspects of the topic.

This session is part of a series of scientific activities through which the College of Engineering seeks to develop skills and equip participants with the latest knowledge in the fields of modern technology, thereby enhancing institutional performance and keeping pace with scientific developments.



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**SDG 11: Make cities and human settlements
inclusive, safe, resilient and sustainable.**

The world's population is constantly increasing. To accommodate everyone, we need to build modern, sustainable cities. For all of us to survive and prosper, we need new, intelligent urban planning that creates safe, affordable and resilient cities with green and culturally inspiring living conditions.

SDG 11 aims to create inclusive, safe, resilient, and sustainable cities and human settlements. It emphasizes access to affordable housing and essential services, upgrading informal settlements, and providing safe, affordable public transportation and green spaces. The goal also includes minimizing urban environmental impact, enhancing climate and disaster preparedness, and safeguarding cultural and natural heritage.

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The College of Engineering at Al-Karkh University of Science organized a panel discussion on the application of geomatics technologies in sustainable urban planning (February 22, 2026).

The College of Engineering at Al-Karkh University of Science organized a panel discussion titled ***“IMPLEMENTATION OF GEOMATICS TECHNIQUES IN PLANNING OF SUSTAINABLE CITIES,”*** presented by Assistant lecturer. Ali Hussein Hadi, in the presence of the University President, Prof. Dr. Jumaa Salman Jiyad, and a number of faculty members.

The panel discussion addressed the concept of geomatics engineering and its components, and provided a comprehensive definition of a sustainable city along with its economic, social, and environmental dimensions. The session also focused on the applications of geomatics techniques in sustainable urban planning, while addressing the challenges facing the city of Baghdad in achieving sustainability.

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This seminar is part of the College of Engineering'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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**SDG 16: Promote peaceful and inclusive societies
for sustainable development, provide access to
justice for all and build effective, accountable and
inclusive institutions at all levels**

Armed violence and insecurity have a destructive impact on a country's development, affecting economic growth, and often resulting in grievances that last for generations.

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 are key to this process,

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

Under the patronage of the President of Al-Karkh University of Science, Prof. Dr. Jumaa Salman Jiyad, 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” on Monday, February 16, 2026.

The workshop was presented by lecturer. Wafa Abdul Hussein Kazim (Department of Quality Assurance and University Performance), who 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.

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The College of Engineering Hosts a Book Fair Titled “Human Rights in Thought and Knowledge”

Under the patronage of the esteemed President of Al-Karkh University of Science, Prof. Dr. Jumaa Salman Jiyad, 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.

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

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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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