



Republic of Iraq
Ministry of Higher Education & Scientific
Research
AL-Furat AL-Awsat Technical University (ATU)

Annual Report for SDGs

2015-2030

Sustainable Development Goals
Report for 2023





• The University In Brief

Al-Furat Al-Awsat Technical University is an Iraqi academic educational institution founded in 2014 after the establishment of four technical universities by the Technical Education Authority. Since the founding of the university, it has devoted its efforts to developing the basics of a successful university, which are (scientific research, teaching and learning, community service and the labor market) and to ensure this success. The university paid attention to the goals of sustainable development as one of the factors for success, institutional awareness, and continuity. The university launched its slogan (Towards a Sustainable University) in mid-2019.

The university consists of twelve formations (4 technical colleges and 8 technical institutes) and includes (110) scientific departments in the specializations (health and medical / engineering and technology / administrative / agricultural / applied arts) in the morning and evening studies and postgraduate programs at the levels (doctoral / master's / Higher Diploma/Bachelor/Technical Diploma)

• Vision:

To be the best and most distinguished choice in technical education to be a global competitor.

• Message:

Al-Furat Al-Awsat Technical University is keen to respond quickly to the requirements of the labor market to be a pioneering and effective center for community service and leadership by enhancing the principles of quality technical education and developing research capabilities and creative thinking to create a stimulating academic environment that intellectually and skillfully prepares a graduate capable of competing professionally to serve the community in accordance with global developments.



• University Values

1. Honesty and respect
2. Ethical and social responsibility
3. Loyalty and belonging
4. Academic freedom
5. Team work
6. Quality and excellence
7. Originality and innovation
8. Transparency and accountability

• Objectives

Al-Furat Al-Awsat Technical University aims to achieve the following:

First: In the field of technical education:

1. Preparing university generations of middle and senior cadres capable of keeping pace with global technical developments in various specializations.
2. Ensuring the qualification of the graduate to be a role model in society and instilling the principles of critical thinking and creative work
3. Continuous renewal and innovation in all aspects of the educational process at the primary and postgraduate university levels.
4. Interacting with partners in the labor market to monitor and adapt to practical needs.
5. Working to use various modern teaching and learning methods and effective communication with students to increase the relationship between the student and the university.
6. Achieving academic accreditation for the university's study programs nationally and internationally.



Second: In the field of scientific research

1. Preparing generations of scientists, researchers and technical experts in line with sustainable development plans and community service in all technical specializations.
2. Motivating teaching bodies to work according to the principles of solid scientific research and publishing scientific results in prestigious international journals.
3. Working to link research and its results to sustainable development plans and finding scientific solutions to the country's social, economic and technical problems.
4. Motivating teaching staff to work as research teams and enhancing participation with various scientific institutions to raise the level of the university globally.
5. Establishing research centers at the university aimed at finding scientific solutions to society's problems.

Third: In the field of community service

1. Continuous evaluation of specializations in scientific departments by suspending them or creating new scientific departments that keep pace with developments in the labor market and simulate societal needs.
2. Fulfilling the requirements of social responsibility and achieving an influential presence in community events and activities to promote social, cultural, scientific and economic progress.
3. Directing the consulting and research offices in the university's formations to provide consulting services aimed at enhancing the leadership role of the university in society.
4. Providing continuing education and training programs for all institutions and segments of society and striving to spread scientific culture.

Fourth: In the field of cooperation with universities and other scientific institutions

1. Supporting cooperation with international universities in the field of scientific research, cultural exchange, and joint supervision of postgraduate studies to develop the capabilities of teachers and students.



2. Building a system of strategic relationships with reputable universities and scientific institutions in a way that contributes to developing educational and research capabilities and programs.
3. Sustainable cooperation with supporting institutions to hold scientific seminars and conferences to disseminate knowledge, innovations and transfer technology.
4. Interaction with global scientific experiments and expertise in the scientific and technical field.

Fifth: In the field of performance evaluation and international classifications

1. Adopting the highest evaluation standards in the institutional and programmatic fields to achieve the university's comprehensive quality management requirements.
2. Providing the basic requirements for the university to rise within the international rankings.
3. Establishing the infrastructure to implement the e-government project to facilitate electronic communication between the university's formations and its branches.
4. Developing programs to develop the capabilities of faculty members to raise the level of their performance and creating the necessary incentives for that.
5. Enhancing the university's academic reputation by encouraging its researchers to participate in scientific research platforms and publish their scientific results.

Sixth: In the field of providing an attractive university environment

1. Improving infrastructure and services and their sustainability in accordance with national and international academic accreditation standards.
2. Rehabilitating and maintaining the university's green spaces and their formations in accordance with the university's green standards to improve the university environment for students.



3. Developing information technology services and applications at the university to facilitate rapid communication between the university and students.
 4. Facilitating knowledge sharing by developing the university’s virtual library project and linking it to an electronic application that facilitates the student’s access to books and research.
- **The university’s role in achieving sustainable development goals :**



Achieving the goals of sustainable development is the means to achieve well-being for current and future generations. The university seeks to be sustainable as a scientific and cultural edifice for its students and members and to have an impact on society through its strategic plans and its rationalization of the use of financial and natural resources (water and energy) in light of the preservation, development and continuous support of human resources, and in this way It contributes to achieving the seventeen sustainable development goals, none of which can be achieved effectively without helping to achieve other goals, as follows:



SDG 1: No Poverty





Al-Furat Al-Awsat Technical University prepares Different Campaigns to achieve SDG1 :

- **Campaigns to prepare food baskets for needy families inside and outside the university**

Al-Furat Al-Awsat Technical University continues its campaign to distribute food baskets. The campaign aims to implement and establish the principle of solidarity and social cooperation.

Food baskets, which include fruits, vegetables, meat, rice, sugar, oil, baby formula, and other materials, were distributed to needy families in the cities and villages of the governorates.





- Opening of the charity market for handicrafts

The charity market for handicrafts was opened at Al-Furat Al-Awsat Technical University in cooperation with community organizations to serve families in need



- Organizing a student carnival on the occasion of the New Year 2023



- Al-Furat Al-Awsat Technical University graduates students to work in the private sector also





Supporting students to help them complete their studies at the university:

- Financial aid for needy students, people with special needs, and the sick:

The university provided aid to needy students and aid to sick students and people with special needs during the academic year.

Reducing tuition fees for evening studies:

The university's formations continue to reduce the fees for evening studies for students admitted to it by 10% for social reasons, in addition to the top students, and according to instructions to help the community members overcome the difficulties facing its children to complete their studies there.

The university supports the community to contribute to the eradication of poverty:

- The Technical Institute in Diwaniyah established a charity market, the proceeds of which were allocated to needy families, and at the Babylon Technical Institute, proceeds were allocated to needy students and the families of martyrs.

- Karbala Technical Institute. The Institute's members and students carried out volunteer campaigns to distribute food baskets and Eid clothing to some needy families. In addition, the Institute contributes annually to providing medical services, logistical support, and providing dining tables to visitors to the Arba'iniyah of Imam Hussein, peace be upon him. The Technical Institute of Kufa contributes annually to providing medical services, logistical support, and providing dining tables to the visitors of the Arba'iniyah of Imam Hussein, peace be upon him.

- Najaf Technical Institute established a charity market, the proceeds of which were allocated to needy families and some needy students, as well as frequent visits to orphanages and providing them with their needs on religious occasions and regular days.

- Medical Technical College members and students provided food baskets to some families in the countryside surrounding its geographical location



SDG 1: No Poverty

Eradicate poverty in all its forms everywhere Targets include eradicating extreme poverty; and implementation of social protection measures; Ensuring equality between men and women in access to economic resources.

Economic sustainability aims to eliminate poverty in all its forms everywhere in society and maintain a sustainable society. The university, with all its formations, witnesses the implementation of various activities and events to contribute to the eradication of poverty, as follows :

The Najaf Technical Institute provided assistance to 46 needy students and the difficult financial circumstances they are going through in the amount of (2,350,000) thousand dinars. Tuition fees were reduced for a large number of students in evening studies covered by social welfare benefits, by a total of (50,000,000) dinars. . The Technical and Administrative College established By granting needy students varying amounts to help them complete their studies, in a number of (25) Student The Kufa Technical Institute provided sample assistance to students (2) students from the Departments of Materials Management Technologies and Community Health Technologies. The Institute provided financial assistance to (140) students in a total amount of (116,400,000) to students due to their economic circumstances (reducing study fees by 10%). The Karbala Technical Institute reduced the tuition fees for a number of students by (34), including (20) female students and (14) male students, for the academic year 2022-2023. . As for Al-Musayyib Technical College Tuition fees have been reduced for students who need studies for the year 2023 (parallel, evening, and higher studies)

Parallel study (5 students), evening study (23 students), postgraduate studies (21 students)

And also It provides university housing within the college for female students, with a capacity of (80 students) and at nominal prices. As for the College of Medical and Health Technologies, it reduced tuition fees in the college by (30) male and female students. Aid was provided to needy students in the amount of (1,025,000) dinars for (18) male and female students. Dinner banquets were held for the students of the internal departments. The Babylon Technical Institute provided financial scholarships to a number of students (27) to encourage them to excel and continue their studies with excellence, in the amount of (975,000) dinars. Supporting needy students and those with special needs with financial aid or in-kind gifts and The Najaf Technical Institute invited a group of orphans from the Al Ain Social Welfare Foundation and honored them and provided them with financial and moral support. The Najaf Technical Institute held an orphan's joy campaign to clothe orphans to the State House for Sprouts Care. A large number of workers at the institute were helped and financial sums were provided to them in a total of (20,000,000) dinars due to their difficult financial circumstances.





And he rose A number of teachers from the Administrative Technical College visited (Al Ain Foundation for Orphan Care) and presented (75) gifts. Discussions were held with the aforementioned center about the possibility of giving courses or workshops to help orphans find job opportunities.



Visit Al Ain Charitable Foundation

The Nour Al-Wafa Cultural Charitable Foundation was visited to distribute school supplies to needy families and orphans. A visit to the Nour Al-Wafa Cultural Charitable Foundation to distribute Eid clothing to needy families and orphans. A field visit to the Karbala Health Department for the purpose of agreeing on obtaining medical aid for our needy students. As well as distributing financial rewards to the institute's members, including teachers, technicians and administrators. Distributing financial aid to some members (social solidarity among members) to support humanitarian and medical cases, and distributing financial aid to needy students (social solidarity among members) or from the formation. And helping students to complete their studies who are exposed to accidents during the school year.



SDG 1: No Poverty



Visit the orphanage

The College of Medical and Health Technologies provided financial assistance for medical and humanitarian cases of its members, amounting to (1,500,000) dinars, based on the principle of solidarity.

The Babylon Technical Institute continues to employ lecturers and contracts with a number of (57) external lecturers and a number of (2) contracts in various scientific departments, assigning them with study materials to participate in reducing unemployment and providing a work permit for the people of the community. As for the Samawa Technical Institute, the Institute distributed clothes and stationery in a number of villages and districts in the governorate. People with limited income



Distribution of stationery to a primary school



SDG 1: No Poverty

In addition to providing in-kind assistance to 25 students in the form of a salary or study equipment on a regular basis, as well as distributing aid to poor families and workers' families.



Distributing clothes to primary school students

- Al-Furat Al-Awsat Technical University provide support (e.g. food, housing, transportation, legal services) for students from low-income families to enable them to complete university, as in the following:





SDG 1: No Poverty





- Al-Furat Al-Awsat Technical University holds ((The First Job Fair)) with the participation of dozens of private sector companies and institutions: <https://atu.edu.iq/?p=19966>



The first job fair was held in the courtyard of the university presidency. The opening of the exhibition was attended by the representative of His Excellency the Minister, Professor Dr. Yasser Laftah Al-Ugaili, President of the University of Kufa, and a number of university presidents and their assistants, in addition to the Secretary of the Grand Mosque of Kufa, Mr. Muhammad Al-Musawi, the President of the Najaf Chamber of Commerce, Engineer Haider Al-Adhari, the President of the Najaf Chamber of Industry, Mr. Amer Al-Haddad, and representatives of the supporting and participating parties, and the two assistants. The President of the University, ladies and gentlemen, deans of colleges and institutes, a number of university employees, and a large number of graduates. The celebration began with the recitation of verses from the Holy Qur'an, then Surah Al-Fatiha was read to the souls of the Iraqi martyrs, after which the Iraqi national anthem was played. In his welcoming speech, the University President referred to the university's efforts in qualifying graduates, holding



SDG 1: No Poverty

training courses and workshops, and preparing them to engage in the labor market. He also referred to the role of the Council. The consultant for the field of work at the university and supporting partners in supporting and assisting the establishment of the exhibition and communicating with private sector institutions. He also thanked the supporting bodies, the preparatory committee, and everyone who contributed to holding the exhibition. Meanwhile, the representative of His Excellency the Minister, Professor Dr. Yasser Lafta Al-Ugaili, President of the University of Kufa, delivered a speech in which he emphasized the efforts of the Ministry and Iraqi universities to provide job opportunities for graduates and the obstacles they face in order to achieve this goal and reduce the demand for appointment in government departments. This was followed by the presentation of a short film about the exhibition prepared by the Department of Media and Public Relations, after which Mr. Ali Abdul Hussein Al-Zalimi, Director of the Scientific Affairs Department at the university, delivered a speech by the preparatory committee in which he pointed out the participation of thirty companies in the exhibition and explained the mechanism for graduates to learn about the job opportunities offered and how to submit their CVs and conduct interviews. Personal with company representatives. While the President of the University granted letters of thanks and appreciation to the supporting bodies, which are the Kufa Mosque Secretariat, the Najaf Chamber of Industry, the Najaf Chamber of Commerce, the Al-Khayal Center for Businessmen, Al-Etijah Travel and Tourism Company, and the Horizon Travel and Tourism Company. Then the representative of His Excellency the Minister cut the ribbon opening the exhibition and toured the pavilions of the participating companies and reviewed the job opportunities offered. More than 600 graduates who visited the exhibition presented their experience certificates, and a number of employment interviews were conducted inside the halls of the university presidency. The exhibition received the attention of the media, satellite channels, news agencies and the press. At the conclusion of the exhibition, Professor Dr. Ahmed Ghanem Waday, Assistant President of the University for Scientific Affairs, distributed certificates of participation to the participating private sector institutions, who expressed their willingness for more cooperation in the future. They also praised the competence of the university's graduates and the willingness of their companies to employ a large number of them who attended and presented during the exhibition



SDG 2: Zero Hunger





Establishing group meals for internal department students

A group meal was held for male and female students of the internal departments in the university's campuses, as this initiative embodied a wonderful image of cooperation and solidarity initiatives to achieve the goals of sustainable development.





Opening of the guest house on campus

The building consists of two wings containing a number of rooms equipped with the latest furniture and supplies, in addition to suites for senior guests and delegations, as well as a reception hall, a restaurant, offices for facility management, and sanitary facilities, which provides a model environment for the residence of guests and official delegations.

The President of the University confirmed that the opening of this project comes within the framework of the University's endeavor to achieve a model, attractive university environment, especially as the University embarks on achieving the concept of internationalization, which requires strengthening cooperation with reputable international universities, through visits by professors and holding international conferences, workshops, and joint activities.





- **The Student Club Building and the Medical Laboratory Technology Department are opened at the Karbala Technical Institute**

At the forefront of the projects inaugurated by Al-Furat Al-Awsat Technical University was the building of the university student club at the institute, which will begin providing its services to students and affiliates.

Note that the club that was opened was implemented according to the latest specifications to constitute an architectural masterpiece added to the series of projects that the university recently implemented in all its formations within the geographical area and under the direct supervision of the Department of Construction and Projects in the university presidency.

It is noteworthy that it recently opened the Central University Student Club at the University Presidency, Kufa site for 2023-2024. He also previously opened the University Student Club at the Diwaniyah Technical Institute for the academic year 2022-2023, in addition to initiating the establishment of student clubs in both the Najaf Technical Institute and the Technical College. Engineering College, Najaf, and it is hoped that it will be opened at the beginning of the year 2024, in light of the campaign that the university is witnessing in all its formations to rebuild the infrastructure and for the sake of an exemplary sustainable environment for students and associates.

In the same context, the University President opened the Department of Medical Laboratory Technologies after rehabilitating the department to include a number of classrooms and laboratories that meet practical training requirements, in addition to a number of administrative offices and service facilities.





- Al-Furat Al-Awsat Technical University Provides different events, green areas to plant and developments agriculture to achieve zero hangers

Providing food aid to special groups of society to eliminate hunger:

- The Najaf Technical Institute established a charity market, allocating its proceeds to needy families and some needy students, as well as frequent visits to orphanages and providing them with their needs on religious occasions and regular days.

- Diwaniyah Technical Institute: The Institute provided in-kind assistance to Al Ain Foundation for Orphan Care, in addition to the Institute's annual contribution by providing medical services, logistical support, and providing food tables to visitors of the Arba'een of Imam Hussein, peace be upon him.

- The Babylon Technical Institute provided dining tables to the visitors of the Arbaeen of Imam Hussein, peace be upon him, and provided basic needs such as food supplies and blankets for the orphanage (buds and flowers) in Babylon and visits to the nursing home to contribute to providing some of their necessary needs of food supplies, winter clothes, cleaning materials and disinfectants, and providing The same things include another volunteer campaign to Al-Rashad Hospital in Baghdad, as well as a visit to Asmaa Primary School and the distribution of some sweets and milk to the students, and the distribution of food baskets that include a number of food items to some needy families in the neighborhoods of the governorate.

- Samawa Technical Institute, under the slogan of the university in community service, has organized many workshops to teach skills and provide professional experience to segments of society, free of charge or with nominal wages, to help the unemployed open small projects or find job opportunities in the labor market, as well as workshops and courses to employ and qualify graduates. Of its students, the Institute carried out volunteer campaigns for orphanages and the elderly to provide them with clothes, food, and blankets, and two volunteer campaigns for schools and distributed clothes to some needy families. During the year 2022,

- Al-Musayyib Technical College has made a major contribution in marketing the research of its members to private sector companies and various ministries, with (32) research papers to contribute to supporting the economic movement and solving the problems that these entities suffer from. It has obtained two job opportunities to employ its graduates, in addition to



SDG 2: Zero Hunger

holding a number of volunteer campaigns to contribute to providing Part of the needs of orphanages and the elderly, and carrying out a number of workshops and courses to provide professional skills and experience for all segments of society.

- With the large numbers of university graduates from various specializations, they contribute to achieving all the sustainable development goals of the country, starting with the first goal, “Eradicate poverty,” and the second goal, “Eradicate complete hunger,” by granting them technical qualifications that help them obtain opportunities in the labor market, in addition to their contribution. By achieving the goals, each according to his specialty, this helps to achieve the rest of the goals of sustainable development
- As for the Administrative Technical College, it carried out a volunteer campaign to the orphanage (Al-Anjum Al-Zahira) to donate some food items, clothes, and detergents.



Eliminating hunger, achieving food security, improving nutrition and promoting sustainable agriculture



SDG 2: Zero Hunger

Targets include eliminating hunger and malnutrition; Improving agricultural production and sustainable and robust food production; Correct trade distortions, and ensure functioning food commodity markets Social sustainability aims to support social solidarity and preserve a sustainable society from hunger AThe university, with all its formations, continues to implement poverty eradication activities in its locations to serve the people of its local communities:

University formations continued to provide activities and events to eliminate hunger by providing food baskets to families with limited income, and role-playing games Orphans (14) children in the amount of (2,500,000) dinars in Al-Muthanna Governorate by students and employees of the Samawa Technical Institute.



Visit a nursing home for the elderly

Distribution of gifts in the amount of (8) in the amount of (120,000) dinars, aid, food baskets, and

(120) baskets worth (1,850,000) dinars. As for the Babylon Technical Institute, it distributed food baskets to help needy families, and provided financial and in-kind assistance to homes for the elderly and orphans. Gifts were distributed to children and their morale was lifted by visiting the orphanage under the supervision of the Deanship of the Institute and in cooperation with the Medical Laboratories Department. He implemented a volunteer campaign by distributing the necessary needs of various food items to the Iraqi House Foundation for Creativity, Babylon branch, to shelter children. Implementing a volunteer campaign by distributing food and stationery to students of Asmaa Primary School under the supervision of the Deanship of the Institute and in cooperation with the Community Health Department. In addition to opening training courses at Al-Rashad Company for Auto Spare



SDG 2: Zero Hunger

Parts Trading. Providing job opportunities for graduates of the Institute from various scientific specializations (for the technological, medical and administrative departments, with (26) job opportunities in the private sector. Establishing a volunteer garden by all members and students of the Institute to support the children of martyrs from the Popular Mobilization Forces and the families of the martyrs. And establishing a college. A breakfast banquet for students in the internal departments .



A breakfast banquet for students of the internal departments in the formations

At the Technical Institute of Kufa, the Rehabilitation and Employment Division, in order to support graduate students, implemented (3) courses for graduates, and the number of students participating in them was (67), as well as one symposium, with a number of participants (12), and one workshop, with a number of participants (15), and an adult care home was visited. Age in Najaf Al-Ashraf through voluntary work by the Medical Laboratory Technology Department with a group of students from the Medical Laboratory Department, and 30 men's and 30 women's underwear were provided.



In cooperation with the Committee for Sustainable Development and Enhancing Community Service, the Institute provided a luncheon (breakfast for internal department students) during the holy month of Ramadan. A number of employees and students of the Departments of Mechanical Technologies and Materials Management Technologies organized a field visit to the State House for Bud Care, affiliated with the Ministry of Labor and Social Affairs, which provides its services to male orphans only from the age of (4-18) years. Financial assistance amounting to (390,000) thousand was provided. The Institute provided, in a qualitative initiative adopted by the Department of Limb and Support Manufacturing Technologies, specifically (amputation cases) of the lower limbs, the provision of modern prosthetic limbs to a number of people with special needs (10 limbs) for free, as the President of the University supervised their provision for an amount of approximately (20,000,000) dinars. Iraqi.



SDG 2: Zero Hunger



Distribution of prosthetic limbs for free

In addition, the Institute provides three activities for farmers and local food producers: greenhouses for the production of cucumber crops, apiaries for the production of honey, royal jelly and wax - wooden canopy production, and the propagation of various ornamental plants + fruit seedlings. The percentage of graduates in agricultural specializations at Al-Musayyib Institute reached (14.7) out of its total graduates. As for the Karbala Technical Institute, it distributed baskets containing a group of food items to needy families. Within the geographic area of the institute, and held a dinner for its students in the internal departments, members of the College of Medical and Health Technologies visited the orphanage in Najaf and the Institute for the Deaf and Mute, and provided blankets, sterile materials, and food baskets. For them and for poor families in the countryside, the Rumaitha Institute visited the orphanage in Muthanna and provided various assistance. The Najaf Technical Institute provided job opportunities within the institute by contracting with a number of affiliates, and assisting 108 students with financial amounts from the Social Solidarity Initiative, with a total amount of 5,550,000 dinars, helping 13 affiliates. From service employees, financial sums from the Social Solidarity Initiative, with a total amount of (2,550,000) dinars, and providing in-kind assistance to one of the orphanages, and from the Social Solidarity Initiative, with a total amount of 500,000 dinars, and setting up a charity bazaar at the institute, the proceeds of which go to needy students in the internal departments, as well as providing breakfast meals for All internal department students and gifts were distributed to them by the Deanship of the Institute .





SDG 2: Zero Hunger

A number of teachers from the Department of Business Administration Technologies and members of the college visited (Al Ain Foundation for Orphan Care) and presented (75) gifts. Discussions were held with the aforementioned center about the possibility of giving courses or workshops to help orphans find job opportunities.



-Al-Furat Al-Awsat Technical University provides different events for local farmers and food producers to connect and transfer knowledge

- Al-Furat Al-Awsat Technical University organizes a Ramadan evening for male and female students of the university's formations:
<https://atu.edu.iq/?p=20996>



Under the patronage of the President of Al-Furat Al-Awsat Technical University the Student Activities Department, in cooperation with the Media and Public Relations Department, organized a Ramadan evening for female and male students of the internal departments in the university's formations, Kufa site.



The Ramadan evening was attended by the Advisor to the Minister of Higher Education and Scientific Research, the Director of the Department of Relations and Media, and the delegation accompanying them, as well as the assistants to the President of the University, the deans of the formations of Najaf Al-Ashraf, Al-Qadisiyah, and Al-Rumaitha, the department directors in the university presidency, and a number of male and female affiliates. And the students the President of Al-Furat Al-Awsat Technical University in his speech during the start of the competition, welcomed the minister's advisor, the delegation accompanying him, and the distinguished guests and students, congratulating them on the holy month of Ramadan. He continued that the university has taken promising steps in recent years on the path to success at all levels and levels related to the educational process and its consolidation, as well as revitalizing the scientific research movement and advancing the reality of services. And the university environment and infrastructure. Hardly a day goes by without an achievement and an imprint at Al-Furat Al-Awsat Technical University. Pointing out that these achievements cannot be attributed to the person of the university president or the leadership titles in it, but rather to everyone because the work is being done in the spirit of one team, emphasizing the slogan that the university adopted in Earlier ((Tomorrow begins today)). The President of Al-Furat Al-Awsat Technical University explained that organizing such activities aims to enhance the spirit of loyalty and belonging and enhance the concept of one family, and that there is great hope that the upcoming achievements will be great and worthy of the name of the university. While the advisor to His Excellency the Minister pointed out in his speech the importance of Technical education, praising the initiatives adopted by Al-Furat Al-Awsat Technical University and the achievements achieved during recent years despite the challenges that the country is going through in its various sectors. Director of the Student Activities Department, teacher Naseer Ahmed, stated that the evening included a competition that included many social, cultural, historical and sports questions, as well as some of them were interactive questions related to the university. The competition ended in a tie between the female and male teams, with fourteen points each, and cups were distributed to both teams

- **Al-Furat Al-Awsat Technical University begins establishing a model student club:** <https://atu.edu.iq/?p=21745>

In light of the interest of the Presidency of Al-Furat Al-Awsat Technical University in all aspects of scientific, administrative and service work, especially those related to providing the best services to students and associates, the engineering and technical staff in the Department of Construction and



SDG 2: Zero Hunger

Projects at the University Presidency began implementing the model student club project inside the university campus in Kufa. President of the University, followed the project in the field, and indicated in an interview with the university's media that the project, built on an area of 1000 square meters and two floors, will be another architectural edifice added to the architectural facilities and landmarks that were established on the university campus in Kufa and other sites during the last three years. For his part, the Director of Construction The projects in the university presidency, Dr. Muhannad Al-Khaqani, pointed out that the building that is currently being implemented with high engineering specifications is part of an integrated project to develop the university environment.



Greenhouses (Al-Furat Al-Awsat Technical University, Iraq)





Honey Production (Al-Furat Al-Awsat Technical University,Iraq)



Third Annual Dates Exhibition <https://atu.edu.iq/?p=22348>
(Al-Furat Al-Awsat Technical University,Iraq)

ATU



Typical orchard (Al-Furat Al-Awsat Technical University,Iraq)
- <https://www.facebook.com/watch/?v=780173356675234>

Conservation: plant, animal, and genetic resources for food and agriculture



SDG 3: Good Health and Wellbeing





- **From Najaf...the launch of the fourth edition of the International Scientific Conference on Medical and Biological Technologies, organized by Al-Furat Al-Awsat Technical University in partnership with the Dohuk Technical University.**

From the Al-Najaf Al-Ashraf Governorate... Al-Furat Al-Awsat Technical University held its fourth international scientific conference for medical and biological technologies in partnership with the Dohuk Technical University, under the slogan “Medical technologies are our hope for a better tomorrow” for the period (17-18/4/2024).

The opening ceremony was attended by the President of the Al-Furat Al-Awsat Technical University, Professor Dr. Hassan Al-Zubaidi, and Dr. Masoud Abdel Karim, representing the President of the Dohuk Technical University, Professor Dr. Ari Adel, the President of the University of Kufa, Professor Dr. Yasser Lafta Al-Ugaili, the assistants to the President of the University, the deans of the formations of Kufa, Al-Najaf Al-Ashraf, Al-Diwaniyah, and Al-Rumaitha, and department directors. In the presidency of the university, as well as the senior staff at the Kufa Technical Institute, researchers and specialists from Iraqi universities in the center and region, and university employees and formations.

At the opening ceremony, Al-Zubaidi gave a speech in which he pointed out the importance of scientific research in developing the health and medical sector, pointing out that the university has achieved remarkable progress in the scientific research movement, as the number of published research in the Scopus and Clarivate database reached approximately (3,000) three thousand research papers, which contributed to the university's entry into the university. In a number of prestigious international rankings locally, regionally and internationally, all of this would not have been possible if our university had not had an educational staff that made scientific research a slogan and a unique practice for their work.

He also stressed his encouragement of applied research that addresses real problems in various sectors of society, hoping that such qualitative conferences will continue to be held to strengthen the partnership between the two universities and to serve the educational process.

The conference aims to exchange experiences and learn about the latest developments in medical, health and biological science technologies, and research into typical diagnostic and therapeutic methods for treating diseases, in a way that enhances ways to improve the quality of health and therapeutic services in the fields of: medical laboratories, community health technologies, nursing and therapeutic pharmaceuticals.

At the end of his speech, he thanked the scientific committee and the participating researchers, hoping that their research would resonate widely for its application in practical



reality. Thanks also go to the preparatory and media committee and all the supporting committees that contributed to the completion of this qualitative conference.

For his part, the Chairman of the Conference Preparatory Committee and Dean of the Technical Institute of Kufa, Professor Dr. Fadel Sami Zagher, indicated that the conference presented (61) sixty-one research working papers, including papers outside Iraq submitted by international universities, and others from Iraqi universities in the center and the region, and key speakers were approved. This scientific conference was from the Arab Republic of Egypt, and the third and fourth were from the University of Zakho and the Technical University of Dohuk.

It is noteworthy that the conference topics included medical laboratory techniques, community health techniques, nursing techniques, pharmaceutical and therapeutic techniques, and diagnostic and therapeutic techniques.

A documentary film was shown about the university, its formations, and the renaissance of sustainable construction and reconstruction therein. A documentary film about the Technical University of Dohuk was also shown.

While the opening session included the presentation of two working papers by the main speakers, the first from the Arab Republic of Egypt, Professor of Psychiatry at Ain Shams University, Dr. Hanan Azzam, entitled "Autism Spectrum - Bridge Theory and Application" and another working paper entitled "The Microbiome" by Professor Dr. Khaled Sobhi Ibrahim, in addition to working papers presented. Of the Iraqi universities in the center and the region.

At the conclusion of the activities of the first day of the conference, the University President extended his thanks and appreciation to all the professors, researchers and graduate students who contributed to enriching the conference.

In the same context, Al-Zubaidi presented the university shield to the representative of the President of the University of Dohuk, Professor Dr. Aari Adel, the representative of the University of Dohuk, Dr. Masoud Abdul Karim, Dean of the College of Health and Medical Technologies in Sheikhan, and the official spokesmen and heads of the scientific and preparatory committees from the University of Dohuk. The President of Al-Furat University was also honored. Technical Center, assistants to the university president, Professor Dr. Fadel Sami Zagher, dean of the Kufa Technical Institute, head of the conference's preparatory committee, and gentlemen, the official speakers and heads of the scientific and preparatory committees, by the representative of the president of the Technical University of Dohuk.





- **Al-Furat Al-Awsat Technical University organizes a training course on medical rehabilitation and physical therapy entitled (Vestibular Rehabilitation)**

The Department of Medical Rehabilitation and Physical Therapy at the College of Health and Medical Technologies, Kufa, at Al-Furat Al-Awsat Technical University organized a training course on medical rehabilitation and physical therapy entitled (vestibular rehabilitation). The President of Al-Furat Al-Awsat Technical University, Professor Dr. Hassan Latef Kadhim Al-Zubaidi, attended part of the course, which lasted for two days. With the participation of specialists and researchers in the field of physical therapy from various governorates of Iraq. The international trainer, Dr. Redha Dashti, a neurology consultant from the miserable Kingdom of Bahrain, explained that the course aims to introduce physical therapists to modern techniques for evaluating and treating benign paroxysmal positional vertigo (BPPV), unilateral (UVH) and bilateral (BVH) vestibular dysfunction, as well as introducing neck vertigo. The course discussed the most important causes of vertigo and the most common symptoms that inner ear patients suffer from. The course also discussed the concept of benign paroxysmal positional vertigo (BPPV), the most common pathological condition in the ear, nose, and throat department, its symptoms, and methods of treatment and prevention. For his part, the



SDG 3: Good Health and Wellbeing

university president honored the international trainer. With a certificate of appreciation and the university's shield for his distinguished scientific efforts. The symposium was attended by the Assistant to the University President for Scientific Affairs, Professor Dr. Ahmed Ghanem Waday, the Dean of the College, Professor Dr. Angham Jassim Al-Ramahi, and the Director of the University President's Office, Mr. Moin Mohsen Al-Rubaie..



- Holding the third edition of the International Scientific Conference on Medical and Biological Technologies, organized by Al-Furat Al-Awsat Technical University in partnership with the Dohuk Technical University in the Kurdistan region of Iraq.





- Holding workshops on the role of psychological counseling and educational guidance units in student behavior



- Opening of the building of the Prosthetics Department to help disability people and the Information Technology Unit.



- A number of people with disabilities and special needs were presented with artificial limbs that were manufactured in the workshops of the Limb and Support Manufacturing Techniques Department



Ensuring healthy lives and promoting well-being for all at all ages. Targets include reducing maternal mortality; Ending preventable child deaths; ending or reducing AIDS and other diseases; universal health coverage, affordable essential medicines, and sexual and reproductive health care; Vaccine research, and access to medicines. Health sustainability aims to improve health and safety in the workplace by providing health and preventive care. The following activities were implemented at university sites:



At the Najaf Technical Institute, many seminars and workshops were held on drugs and their harm to health and society, communicable diseases and pollutants in the environment, and a number of seminars on topics related to health.

At the Samawa Technical Institute, it continued to provide free health services to different groups of society In village and rural areas and for the institute's students, as well as carrying out voluntary health campaigns for schools at various educational levels and holding many workshops and



seminars on the unhealthy phenomena that are widespread in society. Alcohol and drugs and their impact on the health of society, as well as electronic communication



Awareness workshops on widespread phenomena in society

As for the College of Medical and Health Technologies, it provided academic activities represented by seminars, workshops, and specialized courses in the field of health and the healthy environment, as well as providing free health services to different groups of society, including visiting oncology patients at the Al-Furat Al-Awsat Oncology Hospital in Al-Najaf Al-Ashraf Governorate, and donating the purchase of medicines at a cost of (250,000) dinars for patients. , Conducting free field laboratory tests for traffic policemen in Najaf Governorate. It was completed 13 medical courses to maintain good health, 11 seminars, 1 workshop, and 1 seminar.

At the Karbala Technical Institute, the institute's members are making great efforts to contribute to achieving the goal of good health and well-being by holding many seminars and workshops related to health for its members, students, and segments of society, as well as seeking the assistance of employees of the relevant state to participate in them.



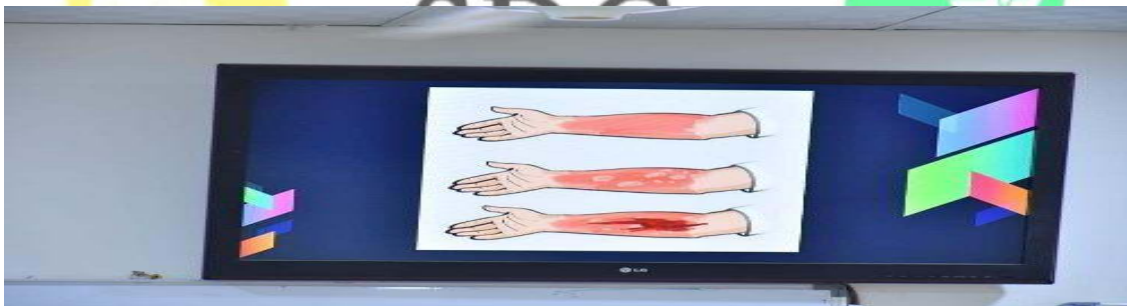


Seminar on drugs

At the Technical Institute of Kufa, a research team from the Medical Laboratory Technology Department visited some rural schools in Najaf Governorate to distribute some detergents to students (detergents) that were produced in the department's laboratories. The Medical Laboratory Technology Department organized a volunteer campaign that included carrying out several medical examinations (CBC, G.U.E., G.S.E) for various groups of the university community, with a ratio of (40) people distributed between students and associates.



The Nursing Technology Department organized a training course on first aid for burns



In addition to holding many workshops and courses on drugs, electronic extortion, and topics related to public health, with (29) workshops and seminars.

As for the Diwaniyah Technical Institute It ran out The Limb and Support Manufacturing Techniques Department held a course entitled “Isolation and Diagnosis of Contaminated Bacteria for Infections Leading to Amputation.” The Limb and Support Manufacturing Techniques Department at the Institute held a course entitled (Negative Effects of Drugs, Toxins, and Psychotropic Substances).



The Health Management Technologies Department at the institute held a symposium entitled The Dangers of Electronic Cigarettes, and the Community Health Technologies Department held a course entitled The Effect of Medicines and Nutritional Supplements on the Results of Laboratory Analysis.

At Al-Musayyib Technical College, many (4) courses were held on health education and health awareness, in addition to three seminars on drugs and their harms to health, and three seminars and workshops on smoking, the effect of jungles on human life, herbal medicine, and the medicinal benefits of plants.

At the Technical Administrative College, it held multiple symposiums on the negative effects of smoking and disorders resulting from drug abuse, their legal and societal consequences, the importance of rehabilitating those recovering from drug abuse, and the health effects of drug abuse as a case study, and a symposium on the general causes of the widespread phenomenon of drug abuse and reducing it. At the Technical Institute In Babylon, many workshops and seminars were held on the effects of drugs, their impact on health, the phenomenon of their spread, and methods of treatment from them, as well as on the harms of smoking, and the establishment of a medical detachment to provide medical services to visitors of the Arba'in shrine of Imam Hussein (peace be upon him) for free. Likewise, courses, workshops, and seminars on drugs, smoking, electronic blackmail, and on the province were carried out. On health at the Technical Institute of Al-Musayyib, Al-Rumaita, and the Technical College of Engineering, Najaf.



A.M.D.Abdullah Fazil Sarheed

12- The Department of Plant Production Technologies, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College, conducted a workshop on (the effects of drugs on the individual and society and how to get rid of them). The workshop aimed to introduce the attendees to drugs and addiction, the most important negative effects and complications resulting from addiction, and ways to prevent and treat drugs. It was conducted. Discussing the signs of an addicted person, the types of drugs, whether plant-based or manufactured in a laboratory, and methods of prevention and treatment. Target group: graduate and undergraduate students and employees in general.



13- The Educational Guidance Unit at Al-Musayyib Technical College, one of the formations of Al-Furat Al-Awsat Technical University, organized, in cooperation with the Association of Educational Teachers, Babylon Branch, and the University of Babylon - College of Education for Human Sciences, a symposium on self-confidence among university students, in which he attended.

Dr. Naglaa Ali Sultan

M.D. Saad Marza Al-Hasnawi

The two lecturers pointed out that self-confidence is one of the important qualities that an individual must possess, as it helps a person deal with life in a positive manner and makes him more capable of overcoming challenges and



difficulties. Therefore, self-confidence greatly affects a person's quality of life and his level of happiness and success in various fields.



14- Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University, in cooperation with the Mahaweel Drugs Division, organized an educational and awareness lecture for college students about the dangers of drugs and their effects on the individual and society. The lecture presented by Lieutenant Colonel Ali Hamid Hadi aimed to explain the dangers of drug addiction to the health of the individual and its effects on the family and society, and that practicing Addiction has a very significant impact in pushing a person to commit various crimes.

It included several topics, including the legal ruling for the user, identifying the types of narcotic substances and their effect on the person, the way they are promoted by drug dealers, and their negative consequences for the individual user in particular, as well as the social harms to society in general.

He recommended the necessity of issuing deterrent laws for the promotion and trade of drugs and the importance of educating the family and taking its role in guiding children, as well as educating society about the dangers of drugs by





holding specialized seminars, courses and workshops. Follow the treatment methods for the addict and take a role for the family in this field.



15- Al-Musayyib Technical

College, the Continuing Education, Rehabilitation, Employment and Follow-up Unit, in cooperation with the Narcotics and Psychotropic Substances Division in Alexandria, organized an extensive symposium on drugs and their effects on the individual and society. The symposium aimed to raise awareness of the dangers of drugs and their impact on the individual's condition in the family and society. It included several topics, the most important of which was the definition of drugs, the reasons for their promotion and use, their types, and methods of prevention. The symposium, in which First Lieutenant Osama Khudair Abbas lectured, touched on explaining the truth about drugs and their types, warning against their abuse, defining the reasons for their abuse and promotion, explaining their dangers to the individual, society, and the state, and introducing ways to prevent them. This bad phenomenon, its treatment, and highlighting the efforts made to address it by all concerned parties.

He explained that drug abuse is personal and public, and that the causes of drug use are ignorance of them and their effects, weak religious faith and upbringing, poor social status, imitation, bad company, and behavioral deviation. He explained that the ways to prevent drugs are to spread awareness of their dangers, harms, and effects, and explain the role of community institutions (family, school, media) in prevention.



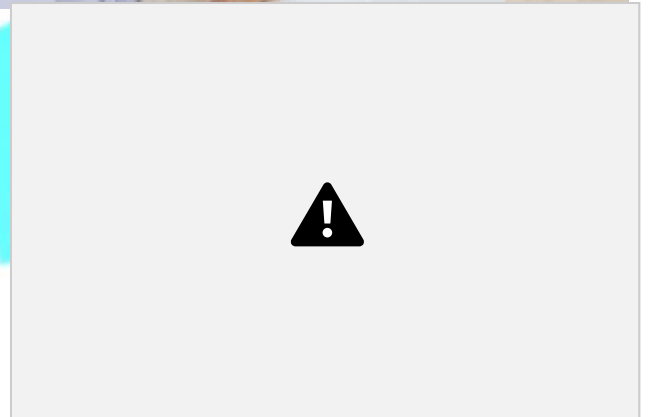
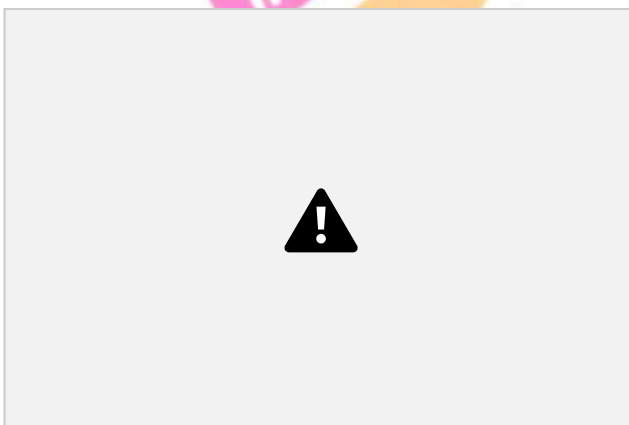
Among them is through awareness, in addition to the efforts of the security authorities in preventing them. The symposium explained the legal provisions for anyone who deals, deals, or trades in them, including imprisonment. The necessity of cooperating with the security services with news about suspected cases was emphasized.



16- Al-Musayyib Technical College/Educational Guidance Unit, in cooperation with the Directorate of Narcotics and Psychotropic Substances Affairs in North Babylon, organized a symposium on the phenomenon of the spread of drugs and its impact on the individual and society, in the presence of the college's professors and students, where the lecture was given by jurist Colonel Mahdi Abdel Jalil Naas. The symposium aimed to raise awareness of the dangers of drugs, their effects, and how to treat addiction to them. During the symposium, he explained the phenomenon of drug abuse, its impact on the individual and society, its types, its impact on the body, and its health, psychological, and physical damage, as well as its impact on the family, pointing to the role of the family in protecting its children by listening to them, giving them time and attention, and setting clear rules. The symposium reviewed how we confront the problem of drugs, problems and difficult times without using drugs, knowing the truth of the problem, the degree of interest in it, adequate knowledge of its details, and how to obtain information that helps understand it and find a solution to it.

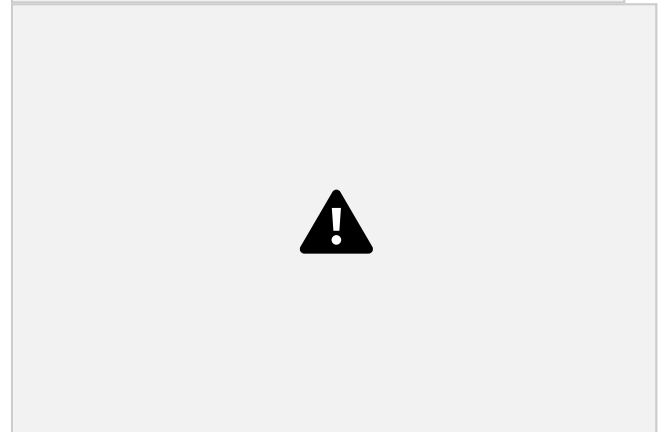
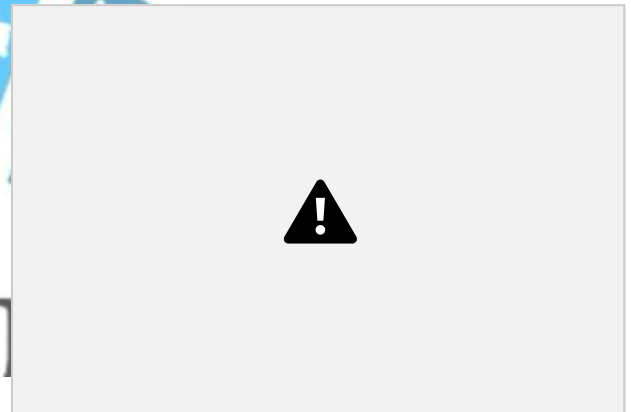
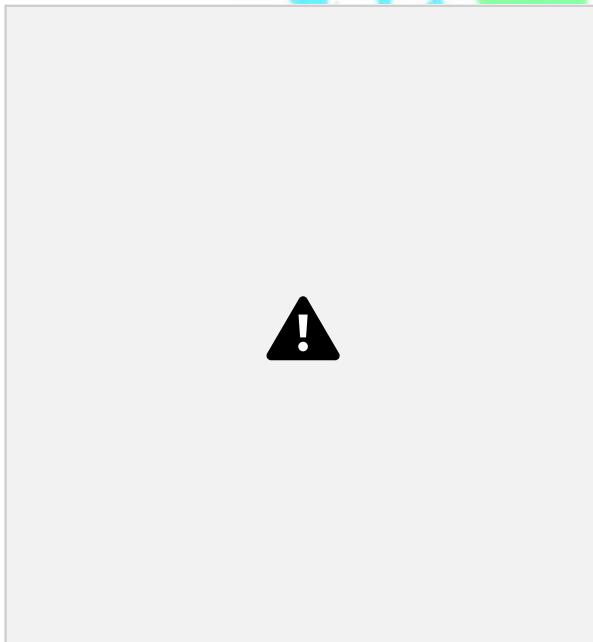
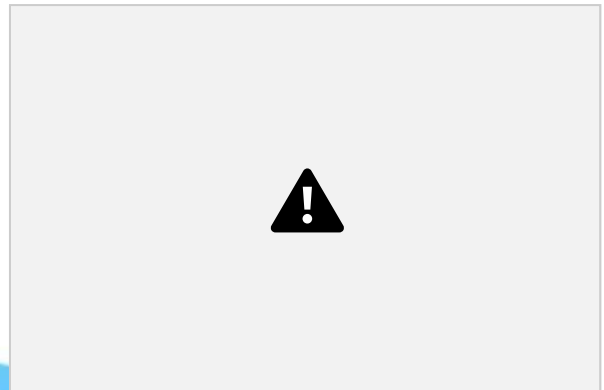
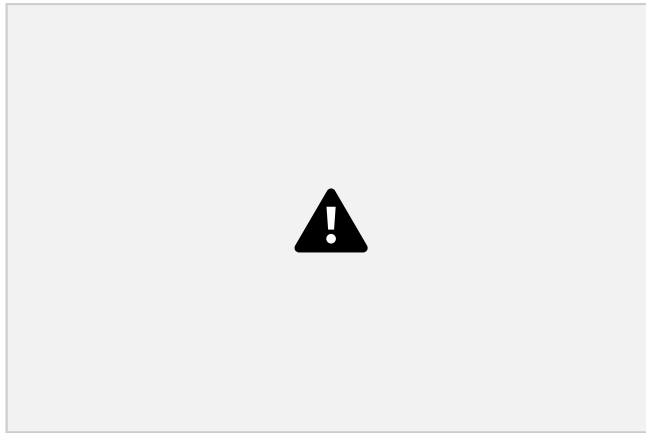


health





SDG 3: Good Health and Wellbeing





17- In compliance with the directives of the Ministry of Higher Education, the Musayyib College of Technology adopts a policy of prohibiting smoking inside the corridors of the buildings of the Musayyib Technical College by posting warning signs inside the building corridors..



18- Participation of a lecturer (Prof. Dr. Adel Obaid Hassouni Al-Saadi) as a member of the scientific committee of the conference (Developing



Occupational Health and Safety to Prevent Risks)



19- Students of Al-Musayyib Technical College participate in many festivals and sporting activities, where Students from Al-Musayyib Technical College won second place in the chess tournament and third place in the table tennis tournament that was held at the Karbala Technical Institute within the internal curriculum of Al-Furat Al-Awsat Technical University.



20- Students of Al-Musayyib Technical College participate in many festivals and sporting activities, where Students



from Al-Musayyib Technical College won first place in the volleyball tournament.



21- The Student Activities Division at the Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University held a ceremony to honor the students participating in the nineteenth Siblings Meeting Festival, which was held at the global station in Baghdad and in the presence of the preparatory committee, Professor Abbas Al-Dakhil, where the students were honored by the Assistant Dean for Scientific Affairs, Dr. Nabil Hamid Abdel Majeed. On behalf of the Dean of the College, Dr. Ali Al-Zubaidi, Al-Furat Al-Awsat Technical University won second place in this festival over Iraqi universities, and certificates of appreciation were distributed to the participants. It is noteworthy that the festival is held annually in Baghdad with the participation of Iraqi universities, institutes, civil society organizations, and state institutions.





Technical Institute / Kufa

2- The answer to the second point is below

1. A research team from the Medical Laboratory Technology Department visited some rural schools in Najaf Governorate to distribute some detergents to students (detergents), which were produced in the laboratories of the above department.





2. The Women's Empowerment Unit held a workshop entitled (How to deal with a woman in the event of foreign objects entering the child's body)



3. Within the activities of the Sustainable Development Committee, the Medical Laboratory Technology Department organized a volunteer campaign that included carrying out several medical examinations (CBC, G.U.E, G.S.E) for various groups of the university community, with a total of 40 people distributed among students, associates, and workers.



4. Within the activities of the Sustainable Development Committee, which aims to serve the community, the Community Health Technologies Department organized a volunteer activity that included measuring blood pressure and other vital signs for members, students, and workers.



5. In cooperation with the Sustainable Development Committee, the Limb and Support Manufacturing Technologies Department conducted a training course on the types of blood types, their inheritance and their importance in the human body.



SDG 3: Good Health and Wellbeing



6. In cooperation with the Commission for Sustainable Development, the Nursing Technology Department organized a training course on first aid for burns



7. The Women's Empowerment Unit held a workshop entitled (The Role of Artificial Intelligence in Early Diagnosis of Breast Cancer)..





- ❖ In cooperation with the Commission on Sustainable Development, the Department of Plant Production Technologies organized a special scientific symposium on combating water pollution



- ❖ Holding a workshop entitled Designing a Solar Energy System for a Residential House by the Electrical Technologies Department



3- Answer to the third point

- ❖ Rehabilitation and maintenance work was carried out on the infrastructure of the Medical Laboratory Technology Department building, amounting to 500 square metres. The work included repairing the damaged areas of the walls and floor of the building and its classrooms, painting the walls, maintaining electrical equipment and lighting, in addition to maintaining the laboratories.



- ❖ Rehabilitation and maintenance of the infrastructure of the Technology Department building was carried out Community health And in reality 950 m²

❖



- ❖ The construction of a model building for the Information Technology Department was carried out, which includes four modern computer laboratories with a capacity of 100 students for each laboratory. The laboratories are characterized by high-quality equipment, including computers and furniture, that meet the aspirations of high-level training. In addition, the building was equipped with an advanced studio for recording electronic lectures using light board technology. A number of administrative offices and service accessories were also provided to meet the needs of the institute's workers.





- ❖ The construction of a central conference hall that can accommodate 240 people was carried out. The hall is equipped with advanced sound systems, smart display screens, and laser data show technology. The best types of furniture have been provided to make it a model hall that accommodates conferences, scientific and cultural events, and the hall's building area is (6*18) square metres.² With stage (15*18) m²



- ❖ Establishing a continuing education hall designated for holding training courses, which is equipped with an advanced smart screen and modern sound systems. This hall allows training courses to be presented in an interactive and innovative way, with an area of (6*16) m²





Student championship at the Najaf Technical Institute and the importance of such competitions in enhancing sportsmanship among students.



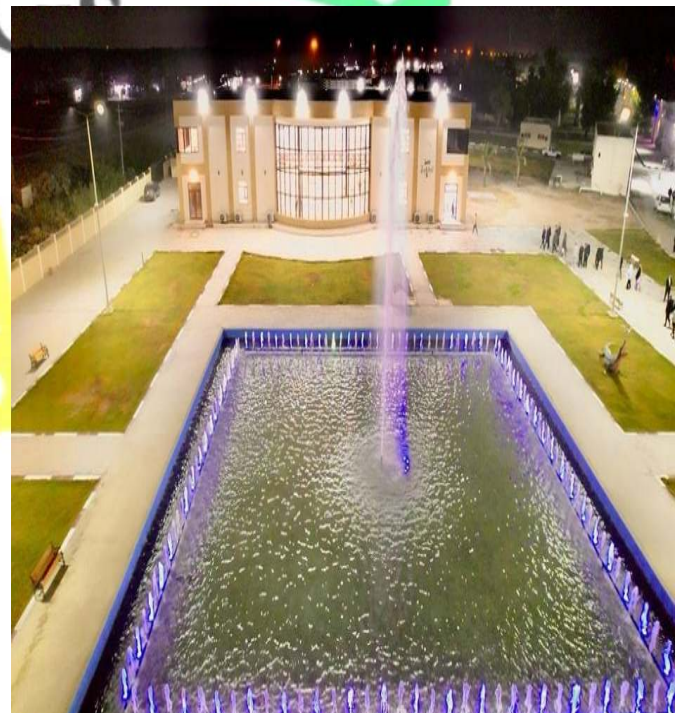
- Opening of the sports stadium on campus



SDG 3: Good Health and Wellbeing

The sports stadium includes eight courts for tennis, basketball, volleyball, badminton, and pentathlon, which were established on an area of (5,000) five thousand square meters, and a hall for the public with a capacity of 300 people.

On the other hand, the parks and green spaces were opened, the area of which the university has been increasing in the framework of achieving sustainable development goals. The added green spaces amounted to 10,000 ten thousand square meters, which included planting palm trees and other evergreen species, for which water is provided using modern irrigation systems.





SDG 3: Good Health and Wellbeing

- Holding a university volleyball championship (male and female), as well as an Iraqi university table tennis championship





Medical staff from morning and evening studies:

They are graduates of pharmacy, nursing, community health, and medical laboratories, graduates of technical institutes and medical technical colleges, who are appointed centrally for distribution to the various health departments in the country to contribute from their work sites to achieving the third goal of the Sustainable Development Goals, "Good Health and Hygiene," and the sixth goal, "Clean Water and Hygiene." "By exercising their duties, they contribute to achieving all sustainable development goals, because providing health awareness to the community helps in this. The introduction of evening studies for medical departments helps to achieve the desire of students, and this achieves the eighth goal, "Decent work and economic growth," one of the sustainable development goals set by the United Nations, through the presence of job opportunities on the basis of central appointment, and this contributes to creating many decent job opportunities, and in this way they contribute. In achieving economic growth.

Activities of the University to Support Public Health:

- On World AIDS Day, Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University organizes an awareness campaign for its students:
<https://atu.edu.iq/?p=23106>





On the occasion of World AIDS Day and under the auspices of Dr. Ali Al-Zubaidi, Dean of the Musayyib Technical College, the Department of Bioresistance Technologies, in cooperation with the Media Division of the Musayyib Technical College at Al-Furat Al-Awsat Technical University, organized an awareness campaign for the college's students to know the dangers of this disease and how to prevent it. The campaign aims to disseminate health and cultural guidance to our students about This disease and how to prevent it, and World AIDS Day or World AIDS Day is considered an annual global occasion that is commemorated on December 1 of each year. This occasion began to be commemorated annually as a result of a decision by the World Health Organization. The United Nations General Assembly stressed the importance of commemorating this occasion in its resolution 15/34. It is devoted to commemorating the occasion and raising awareness of the dangers of AIDS and the dangers of transmission of the HIV virus that causes it, through the use of tools. Contaminated sharps or other practices without taking appropriate prevention methods or through the use of contaminated medical equipment and tools. As well as ways to deal properly and correctly with those infected with the disease or carrying the virus that transmits it, as many of them suffer from discrimination and sometimes persecution because they are infected. AIDS is considered a dangerous disease, and its infection rates are still high, especially in developing countries.

- **A delegation from Jaber Bin Hayyan University visits the College of Health and Medical Technologies, Kufa... to activate the memorandum of understanding concluded between the two sides:**
<https://atu.edu.iq/?p=19421>



A delegation from Jaber Ibn Hayyan Medical University, headed by the Assistant President of the University for Scientific Affairs, Professor Dr. Hanan Dikan Abbas, visited the College of Health and Medical Technologies, Kufa, at Al-Furat Al-Awsat Technical University. The Scientific Assistant to the University President, Professor Dr. Ahmed Ghanem Waday, who accompanied the delegation to the college, said that this was in harmony with the university's policy of activating the provisions of the memorandum of understanding concluded between public universities in health and medical specializations for the purpose of developing universities in a way that achieves their advancement at the Arab and international levels.



For her part, the Dean of the College, Professor Dr. Angham Jassim Al-Ramahi, received the delegation, which consisted of the Assistant Dean of the College of Medicine for Scientific Affairs, Assistant Professor Dr. Ali Najeh Al-Awadi, and the Assistant Dean of the College of Pharmacy for Scientific Affairs, Dr. Fadel Abbas Al-Zayadi. During the meeting, Al-Ramahi stated that the visit aims to activate scientific and cultural programs, including holding seminars, workshops and joint scientific conferences, as well as cooperation in research fields in a way that contributes to achieving academic goals.

- **Al-Furat Al-Awsat Technical University visited the Thalassemia Center :** <https://atu.edu.iq/?p=19602>

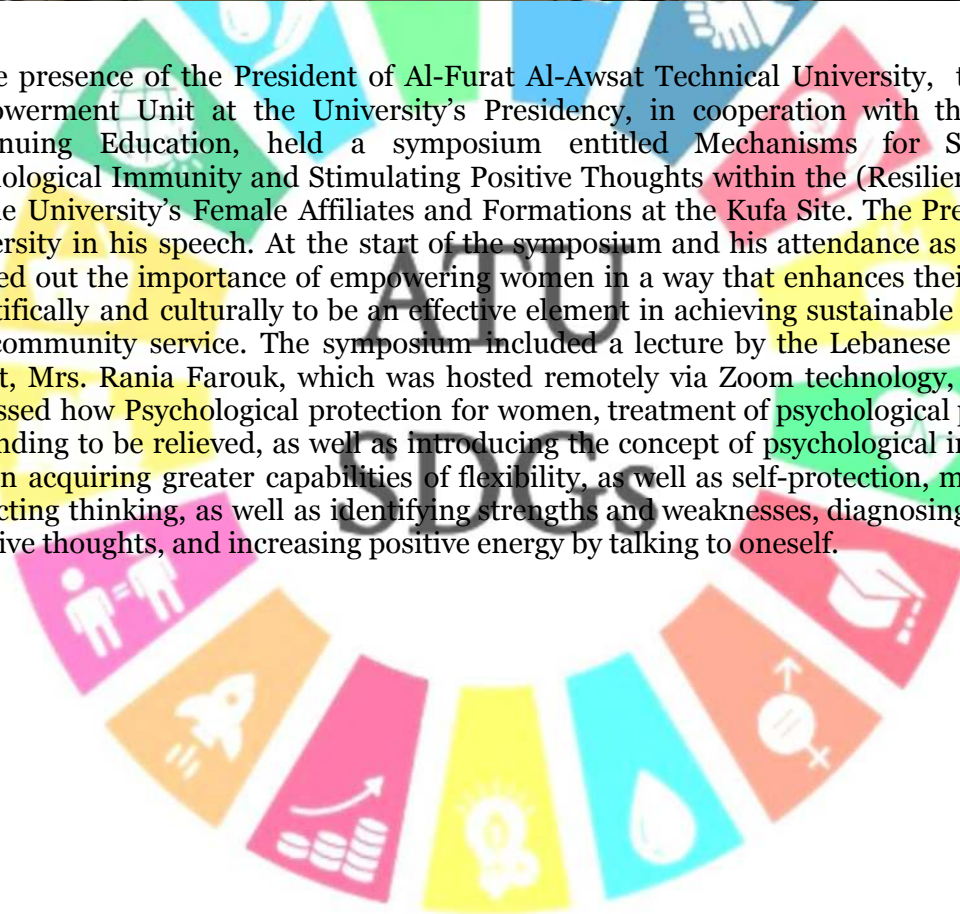


As part of a series of volunteer programs and activities that serve the community, a number of professors and students of the fourth stage of the Medical Laboratories Department at the College of Health and Medical Technologies, Kufa, at Al-Furat Al-Awsat Technical University, visited the Thalassemia Disease Center at Al-Zahra (AS) Teaching Hospital in Najaf. Department Head, Assistant Professor Dr. Raad Al-Jourani, for his part, explained that the visit aims to provide voluntary services to bedridden patients, identify their needs, alleviate their suffering, and instill a spirit of hope in their souls. At the conclusion of the visit, the professors and students extended their sincere thanks to the medical, nursing and administrative staff at the center and honored them for their efforts in serving patients, then distributed in-kind gifts to the deceased patients.

- **Al-Furat Al-Awsat Technical University holds a symposium entitled Mechanisms for strengthening psychological immunity and stimulating positive thoughts:** <https://atu.edu.iq/?p=23112>



In the presence of the President of Al-Furat Al-Awsat Technical University, the Women's Empowerment Unit at the University's Presidency, in cooperation with the Center for Continuing Education, held a symposium entitled Mechanisms for Strengthening Psychological Immunity and Stimulating Positive Thoughts within the (Resilience Program) for the University's Female Affiliates and Formations at the Kufa Site. The President of the University in his speech. At the start of the symposium and his attendance as part of it, he pointed out the importance of empowering women in a way that enhances their capabilities scientifically and culturally to be an effective element in achieving sustainable development and community service. The symposium included a lecture by the Lebanese development expert, Mrs. Rania Farouk, which was hosted remotely via Zoom technology, in which she discussed how Psychological protection for women, treatment of psychological pain, and not pretending to be relieved, as well as introducing the concept of psychological immunity and skill in acquiring greater capabilities of flexibility, as well as self-protection, modifying and protecting thinking, as well as identifying strengths and weaknesses, diagnosing, monitoring negative thoughts, and increasing positive energy by talking to oneself.





- **The Laboratory Research Fields Follow-up Committee at Al-Furat Al-Awsat Technical University follows up the stages of postgraduate students' research: <https://atu.edu.iq/?p=19297>**



The Laboratory Research Fields Committee at Al-Musayyib Technical College, Department of Bioresistance Technologies, Al-Furat Al-Awsat Technical University, followed the research laboratory for postgraduate students and reviewed the students' experiences. The committee expressed its observations and directions if the committee reviewed the research stages of master's students





- A new building for the Pharmacy Technology Department at the Kufa Technical Institute , the Department of Health Management Technologies at the Rumaitha Technical Institute and the Ibn al-Haytham Model Hall:<https://atu.edu.iq/?p=23022> .
<https://atu.edu.iq/?p=20266>





The new building includes (8) eight model laboratories for students equipped with high-tech equipment, in addition to two model pharmacies, each with a capacity of (50) for fifty students, providing practical and training services to students at a high level in a way that serves the educational process for dear students. The new building also includes an administrative wing. It consists of (7) seven rooms for the department head and associates. Meanwhile, the Ibn Al-Haytham model hall for theoretical teaching was opened, which accommodates (160) one hundred and sixty students, equipped with the latest education and teaching requirements. This is a major scientific achievement that contributes to providing scientific services to the people of Muthanna Governorate in the field of hospital and health center management.

- **Al-Furat Al-Awsat Technical University organizes a workshop to present and discuss Iraqi standards for laboratory quality:**
<https://atu.edu.iq/?p=22629>



-In a promising humanitarian initiative that embodies the university's concept of serving society... The President of Al-Furat Al-Awsat Technical University supervised the gifting of a number of people with disabilities and special needs with artificial limbs that were manufactured by students and with their own capabilities in the workshops of the Limb and Support Manufacturing Technologies Department in Kufa Technical Institute, in the presence of the Assistant President of the University for Scientific Affairs, Professor Dr. Ahmed Ghanem, the Dean of the Institute, Professor Dr. Fadel Sami Zagher, the Chairman of the Limb and Support Industry Committee in the Ministry of Health, Professor Raad Hashem, Dr. Mufid Azhar Abu Ghoneim, representative of the Najaf Health Department, and a number of associates and students in the aforementioned department.

-Al-Zuhairi in his speech: The university presidency adopted the creation of this promising specialization at the Kufa Institute to contribute to the preparation of promising technical cadres with a high level of skill who have the ability to qualify this category of society, and for the university to be a center of scientific and humanitarian radiation for society and to provide a technical educational environment that stimulates education and creativity and contributes to Preparing highly qualified graduates as well as achieving partnerships with sectors of society and private and mixed sector institutions related to scientific and



humanitarian activities and providing services and consultations to solve labor market problems and develop its programs.

It should be noted that the Department of Limb and Support Manufacturing Technologies was created in the academic year 2018-2019 to meet

The requirements of this important and broad segment, especially in light of the scourges of war and terrorism that the country has suffered from for long periods, resulting in a large number of people with disabilities.



- Moreover, the health graduates of the Medical and Technical College in Kufa and the departments of the technical institutes of community health, nursing, medical laboratories, and pharmacy and these staffs are appointed centrally to enter into the health work immediately after graduation to



contribute to the provision of health services to members of the community in a way that enhances the public health of citizens and reduces health problems and their treatment on the other hand, and the graduate's access to an economic resource that helps him to live in luxury with what he receives salary and allowances, and thus the university contributes to achieving the third goal "Good health and well-being" from Sustainable Development Goals.





- The University Presidency has the Educational Guidance Division and it has grandmothers in all its sites headed by people with expertise and specialization whose mission is to help students who suffer from psychological and social problems to overcome them or send them to specialized medical centers and follow up their cases. As well as carrying out workshops, seminars and courses on topics related to the psychological and mental state by the university's specialized cadres or seeking the assistance of those with medical specialties from outside the university. The unit also provides staff and students with free mental health support.



ATU university's official statement for establishing the physiologist unit (Al-Furat Al-Awsat Technical University, Iraq)

- **Portable clinics for the public**

Services are provided by students and supervised by doctors who are experts in medical care. Most of these services are provided during large events, such as festivals, gatherings, and religious ceremonies.





Volunteer at the Healthy Clinic (Al-Furat Al-Awsat Technical University, Iraq) to provide free public services

- **Online clinic services**

Visitors to the website have access to the services 24 hours a day, 7 days a week for free. All services are supervised by university experts on each campus. To reach the local community, all contact details are provided in Arabic.

Direct link to access

https://isa.atu.edu.iq/?page_id=2722



المعهد التقني / السماوة

الرئيسية / العيادة الطبية الإلكترونية

كلمة السيد العميد

غرفة المتابعة الإلكترونية

المكتبة المركزية

العيادة الطبية الإلكترونية

المعهد التقني السماوة

العيادة الطبية الإلكترونية

أ.م.د علي عنوك نجم

اختصاص : مناعة احياء مجهرية

رقم الموبايل: 07818856076

الدكتور زياد فاضل سعيد

اختصاص : مناعة

رقم الموبايل: 07824793515

المدرس ريماء نعمة الله حسن

اختصاص: احياء مجهرية

رقم الموبايل: 07800764310

الدكتور علي حسين الشذر

Online clinic services in Al-furat Al-Awsat university's website

- Under the direct guidance of His Excellency the Minister of Higher Education and Scientific Research or the supervision of the President of the Al-Furat Al-Awsat Technical University, the university established its electronic advisory clinics in Najaf, Samawah and Babil and a self-examination for the possibility of contact with the new Corona virus (Covid19) due to the imposition of a curfew and the announcement of the state of ban In view of the exceptional circumstances that the world is going through in general and our country in particular due to the outbreak of the Corona virus epidemic, which has made it difficult for the patient to reach health institutions or private clinics for doctors.
- For their part, the professors in the university formations with medical specialties for the site of Najaf, Samawah and Babel represented by the College of Health and Medical Technologies in Kufa and technical institutes in Kufa, Najaf,



SDG 3: Good Health and Wellbeing

Samawa, Babil and Musayyab formed consulting clinics and provide medical advice by sending inquiries to the private mail of the university page, which was established in the name of (Electronic Consultation Clinic / Al-Furat Al-Awsat Technical University) and through an information form designed for the aforementioned purpose.

- It is possible to enter via the link listed below, and a form will be opened according to the specialization, and the initial diagnosis of the case will be made by the competent doctor with guidance on the appropriate treatment, with the aim of reducing the presence of citizens to a minimum in hospitals as well as medical clinics and reducing friction between citizens for their safety

https://atu.edu.iq/?page_id=13882

The screenshot displays the website interface for the Electronic Consultation Clinic. On the left, there is a sidebar with a list of medical specialties: Internal Medicine, Pediatrics, Gynecology and Obstetrics, Dermatology, and Radiology. The main content area features a banner for 'COVID-19 Symptoms' with a 5-step infographic: 1. Fever and cough, 2. Fatigue, 3. Shortness of breath, 4. Loss of taste and smell, 5. Diarrhea. Below the banner, there is a section titled 'University of Al-Furat Al-Awsat Technical University - Electronic Consultation Clinic - COVID-19' with Arabic text explaining the service. The bottom of the page shows a navigation menu with various university news items and a 'Sustainable Programs' section.



Free access of Healthy Clinic for staffs, students and community (Al-Furat Al-Awsat Technical University, Iraq)

ATU Provides different Access to sexual and reproductive health-care services including information and education services through:

- ATU faculty of medical sciences runs a short course for sexual and reproductive health – care. The course is run once per semester, and it is free of charge.
- Note that enrollment is not compulsory, and it's welcome for all students and staff, and members of the general public. The university also established the physiologist unit, which runs special educational workshops and seminars to women staff and students to help them overcome physiological issues due to workplace or home, as shown in the official university statement.
- In each of the university's site, there is a health center that provides health services for students and members of the formation free of charge and follows up on all cases for the students who visit it to treat them to guide them healthily and provide them with appropriate information about epidemics, diseases and health care through indicative courses and posters to transfer them to their families and the general members of society.



SDG 3: Good Health and Wellbeing



Establishment of the Psychotherapy Unit, whose task is to make awareness programs in mental and psychosexual health for all residents of the university





ATU university free sexual and reproductive healthcare courses for students (Al-Furat Al-Awsat Technical University, Iraq)

- It periodically gave Student guidance seminars & courses to students & staff in all sites through the Educational Guidance and Psychological Guidance Unit in each site of the university. In addition Organizing awareness campaigns on mental and psychological health
- Aims of the Educational Guidance and Psychological Guidance Unit
- Develop an annual guidance plan that extends throughout the academic year commensurate with the needs of students in this field.
- Work on the implementation of the guiding plan and evaluate it annually.
- Carry out the process of individual and collective guidance for students in order to provide assistance and solve the problems facing them.
- Carry out the process of group orientation in classes to discuss with students issues of interest to them or to the community or college.
- Conduct the process of vocational and educational guidance.
- Holding seminars and workshops with preventive, curative or developmental objectives through coordination with the Central Committee.
- Prepare guidance leaflets on psychological, educational and behavioral topics.
- Discuss and address some of the negative phenomena prevalent among students.
- Utilizing extra-curricular activities as preventive methods



SDG 3: Good Health and Wellbeing



- For more evidence about Healthy Clinic the following :
- Al-Furat Al-Awsat Technical University provides health services support for the entire academic community & Public. **Healthy Clinic Photographs**

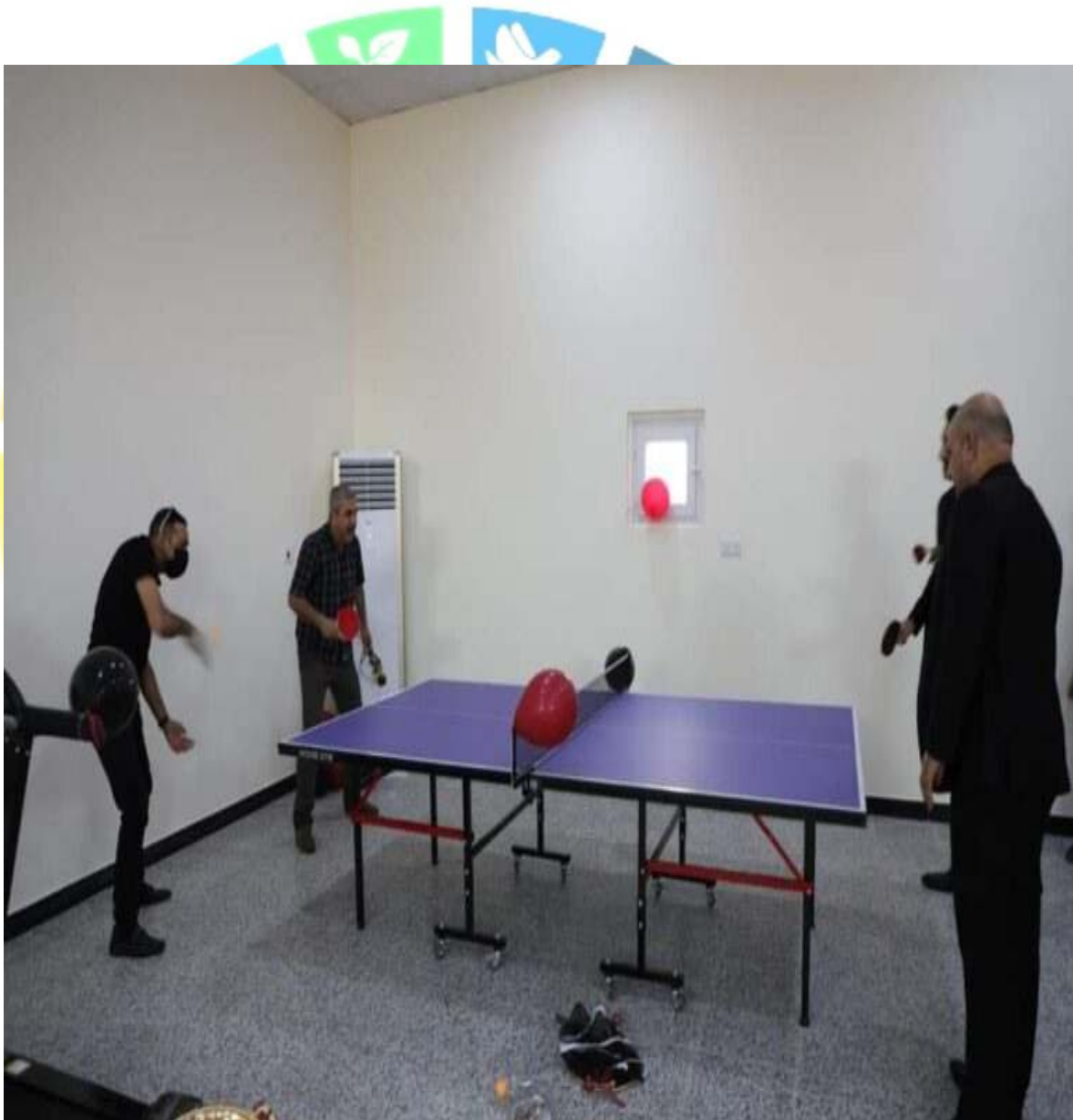


Web Address: <http://en.atu.edu.iq> <http://atu.edu.iq>





-The President of the Al-Furat Al-Awsat Technical University Opened the closed sports hall in the internal departments for girls in Najaf. The project included the establishment of a closed hall with all the devices and equipment for physical fitness



Moreover, Al-Furat Al-Awsat Technical University shares sports facilities with the local community, for instance with colleges or local schools or with the general



SDG 3: Good Health and Wellbeing

public, to support their mental and Physical health-care as the following: <https://atu.edu.iq/?p=2740>



Share Sports Facilities(Al-Furat Al-Awsat Technical University,Iraq)





SDG 3: Good Health and Wellbeing



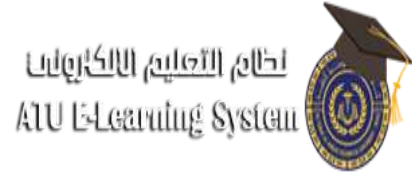


SDG 4: Quality Education





Education and Research



ATU E-Learning System: <https://elearning.atu.edu.iq/>

Academic services: <https://forms.atu.edu.iq/flow/index.html>

3.1. ATU Journals :

- Al-Furat Journal of Innovations in Electronics and Computer Engineering: <https://fjiece.atu.edu.iq/index.php/ce/index>
- Al-Furat Journal of Innovations in Agricultural Sciences (FJIAS) : <https://journals.atu.edu.iq/index.php/afijas>
- Al-Furat Journal of Innovations in Mechanical and Sustainable Energy Engineering (FJIMSE): <https://journals.atu.edu.iq/index.php/fjimse/about>

3.2. ATU Researches:

- AL-Furat AL-Awsat Technical University Digital Repository (ATUDR): <https://repository.atu.edu.iq/>
- AL-Furat AL-Awsat Technical University Scopus-Indexed: <https://www.scopus.com/pages/organization/60109360#tab=sdgs>

3.3. ATU Library:

- E-Library: https://atu.edu.iq/?page_id=10606
- Central Libraries: https://atu.edu.iq/?page_id=14670



The presence of training fields on university sites is one of the primary sources for students to receive training according to the latest international training methods and enables them to conduct research and prepare master's theses and doctoral dissertations on problems in the agricultural sector and enhance the positive aspects therein. This achieves the fourth goal "quality education" of the seven sustainable development goals.

University and Governance:

- Governance in the educational institution is one of the requirements for achieving sustainable development through activating the business control system to ensure achieving a high level of university performance and supporting university decisions that are based on participation and self-management, supporting decentralization and working in a single team spirit, and consolidating the core values adopted by the university through mutual respect and transparency. Justice, enhancing belonging and loyalty to the university, encouraging creative and distinguished people, adopting creative ideas and initiatives, and joint cooperation in implementing all work and at all levels of performance with high quality.
- Al-Furat Al-Awsat Technical University obtained membership in the United Nations Academic Impact Program (The United Nations Academic Impact UNAI)



United Nations Academic Impact
welcomes on this 12th day of September, 2023

Al-Furat Al-Awsat Technical University

*as a member of the United Nations Academic Impact and values its
commitment to the principles of the initiative.*

Robert Skinner

Robert Skinner
Chief, United Nations Academic Impact
Department of Global Communications
United Nations



- Al-Furat Al-Awsat Technical University issues the fourth issue of its scientific magazine

Under the direct guidance of the President of Al-Furat Al-Awsat Technical University, Professor Dr. Hassan Latef Al-Zubaidi, the editorial board of “Al-Furat Scientific Magazine” at Al-Furat Al-Awsat Technical University issued its fourth issue, and the first of the third volume, and it is considered (Al-Furat Magazine for Creativity in Electronics and Computer Engineering

), Al-Furat Journal of Innovations in Electronics and Computer Engineering (FJIECE) (ISSN 2708-3985),

A periodical, peer-reviewed scientific journal concerned with publishing solid scientific and engineering research and studies.

The new issue included scientific research that simulates scientific progress in the field of communications, electronics, control and computers

It is noteworthy that the journal is accredited for the purposes of publishing scientific research and promotions based on the Research and Development Department, No. PT 4/5097 on 6/15/2023, and is registered on the Iraqi academic scientific journals website.

The magazine continues to receive scientific research by faculty members and postgraduate students in the specializations mentioned above.

The President of the University, for his part, thanked the Chairman of the Journal’s Editorial Board, Professor Dr. Ahmed Ghanem Waday, Scientific Assistant to the University President, the members of the Editorial Board, the scientific evaluators, and the researchers who provided the Journal with their valuable research.

You can view the research published in Volume (3) Issue (1) for the year 2024 on the magazine’s website through the following link:

<https://fjiece.atu.edu.iq/index.php/ce/issue/view/8>

The research published in the above issue is on the magazine’s website and on the website of Iraqi scientific academic journals through the following link:

<https://www.iasj.net/iasj/issue/17973>

To inquire about the magazine, you can write to us on the magazine’s email

Furat-FJIECE@atu.edu.iq

For more information, please contact the Director of the Editorial Board

huseinawad@atu.edu.iq



- **Obtaining a number of accreditation certificates for construction testing laboratories at Al-Furat Al-Awsat Technical University from the Iraqi Ministry of Planning.**
- **The Office of Scientific and Consulting Services in the Presidency of Al-Furat Al-Awsat Technical University obtains accreditation certificate No. TL098 from the Iraqi Accreditation Authority**

Why is there a need for the Bologna Project?

-The existence of different educational and training systems is in the interest of the labor market in Iraq, and adopting this educational system will make universities compete to provide the best in terms of education. In addition, the path mainly supports the modernization of education and training systems to meet the needs of the constantly changing labor market as needed, so that the graduate obtains job opportunities that require high skills for the graduate to enable him to innovate and entrepreneurship. In order to develop the education process in Iraqi universities, the Ministry has begun implementing the Bologna Pathway, which is one of the modern educational systems approved in most European Union countries in technical universities within the center and in specific specializations (Department of Building and Construction Engineering at Al-Furat Al-Awsat Technical University, Northern Technical University, and the Department of Information Technology Technologies). At the Central Technical University and the Southern Technical University) starting from the current academic year 2022/2023 as a first experimental phase that can be applied on a larger scale in other specializations in technical universities as well as academic universities.

The Bologna path is characterized by the ability to adapt to labor market variables and constitutes a cornerstone in building a true partnership with the labor market in various sectors (public/private/mixed), especially since representatives of these sectors will have an active role in one way or another with regard to preparing curricula and updating them with specialized professors on a regular basis. And benefit from feedback from labor market leaders, partners and graduates, which is taken into consideration when reviewing the system.



Objectives of the Bologna Process:

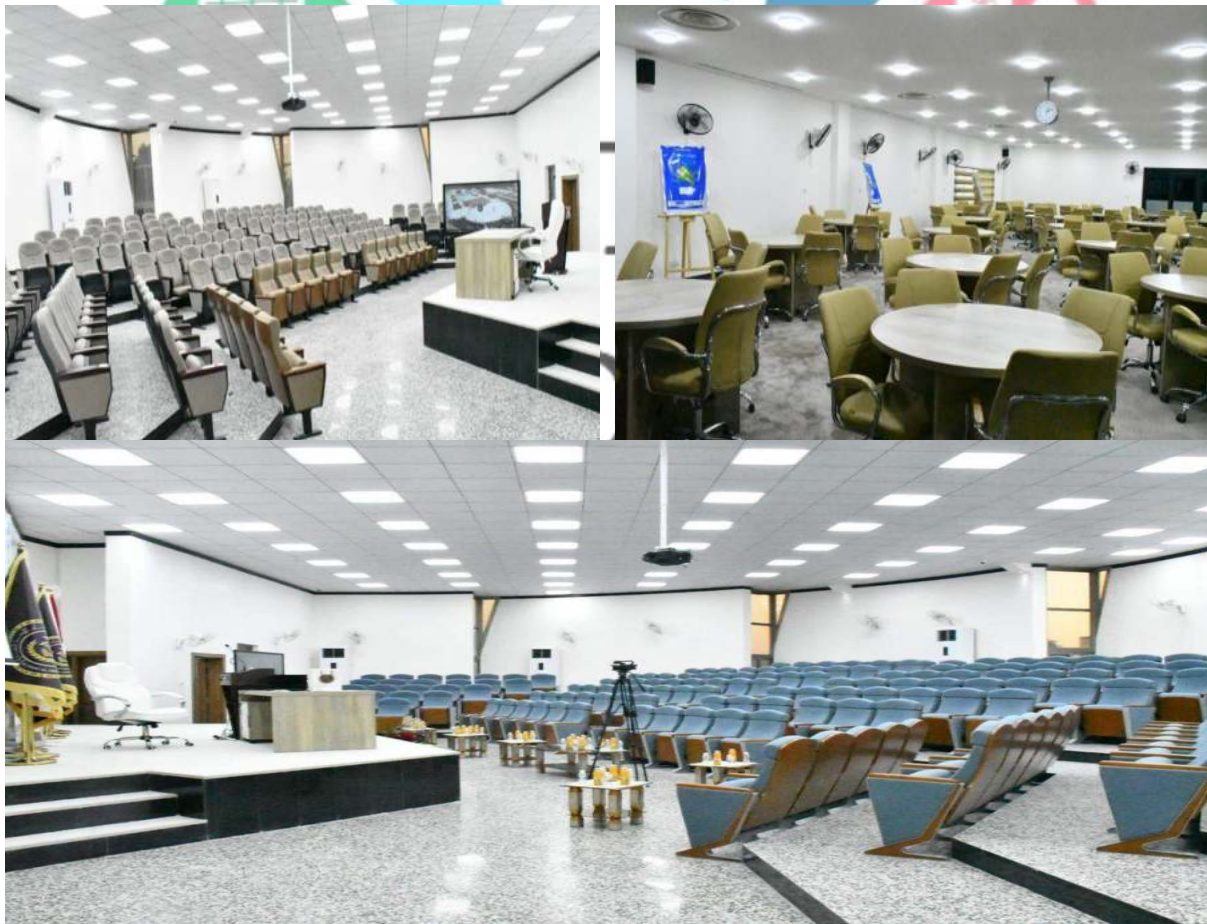
1. Building real partnerships between the university and the labor market.
2. Building confidence in the educational process
3. Adopting competency-based training and enhancing the self-confidence of the graduate.
4. The possibility of determining the performance and efficiency of students using the ECTS system, the European system for collecting and accumulating units.
5. The system allows the use of new educational patterns, such as working in groups, which enhances teamwork in addition to other patterns.
6. Design curricula that meet market needs and enhance job opportunities for graduates.
7. The system achieves greater transparency and fairness in evaluating students through the ECTS system, especially since the student's effort will constitute the largest portion of the evaluation.
8. Greater possibility of obtaining job opportunities inside and outside Iraq.
9. Enhancing education through practical training in real locations. On job training
10. The system enhances students' ability to research and innovate.
11. The track provides a free environment for students to choose study subjects and timings that suit their desires and abilities.





- **Opening of the Scientific building: <https://atu.edu.iq/?p=25942>**

The project (the Scientific building) includes the establishment of three model classrooms with a total capacity of approximately (500) five hundred students, as well as a hall for continuing education courses, an electronic library, scientific and administrative offices, and other service facilities that have been equipped with modern requirements of equipment, furniture, and other equipment. The best builders





SDG 4: Quality Education

Ensure comprehensive and equitable quality education and promote lifelong learning opportunities for all. Targets include universal access to free pre-primary education and quality primary and secondary education; improving professional skills; Equal access to education, expansion of education facilities, scholarships and teacher training. Scientific sustainability aims for education to be available to everyone throughout their lives. Education is an engine for sustainable development and the key to a better world. To achieve this goal, the university has implemented the following activities in its formations:

In all university formations, international standards are applied to distribute professors in proportion to the preparation of students and in proportion to their academic titles and precise specializations, as well as the approved academic systems in teaching subjects for primary and postgraduate studies, and reliance on the integrated system in giving lectures and taking into account students with special needs with regard to buildings and public facilities, as well as follow-up. Graduates and involve them in qualification courses for the labor market, as well as providing modern laboratory supplies and study halls according to good specifications.



Classrooms

At Al-Musayyib Technical College, to enforce impartial education In order to enhance the theoretical aspect of the study, the college seeks intensively to hold scientific visits for its students from various stages, which works to enhance the quality of education. The scientific departments at Al-Musayyib Technical College held 9 scientific visits for students in various fields of primary and graduate studies. As well as holding many scientific courses that aim to develop students' skills in various scientific and academic journals, including:

How to write original scientific articles, review articles, and previous studies for graduate students, and use the Endnote program to include sources in research and university theses for graduate students. Administrative and scientific mechanisms for delivering theses and theses to graduate students, Microsoft Office Word, teaching the basics of the English language in job interviews, and creating and



SDG 4: Quality Education

Managing a plant tissue culture laboratory for rapid seed production, pioneering projects, and business incubators to establish student and graduate projects, classifying and filtering official or personal emails, and developing the graduate's skills and ability to obtain a job opportunity.



At the College of Administrative Technology, a course was held for college members on organizing and preparing electronic lectures and presenting them using the Power Point program, as well as holding scientific debates among its students.

At the Technical Institute of Kufa, (5) courses were implemented by the Rehabilitation and Employment Division for students about to graduate, and (70) students participated in them. With the aim of developing the members' linguistic skills, the Continuing Education Unit conducted a special training course in the safety of the Arabic language for the job cadre at the Institute. The Education Unit conducted A continuing training course to build the academic capabilities and skills of newly recruited graduates, and (9) workshops to raise the efficiency of associates and students in scientific issues. The situation is no different at the Najaf Technical Institute, as many seminars, workshops, and courses have been implemented on modern educational methods for statistical programs. And computers for use in various scientific specializations, with a total of (20) workshops, a symposium, and a course. At the Musayyib Technical Institute, a workshop was held on the advanced 3D AutoCAD program, a symposium on biological risk management in laboratories, and a course on scientific and pathological sustainability for early and new employees. At the Diwanayah Technical Institute, the Najaf Engineering Technical College, and the Rumaitha Institute, scientific standards were taken into account to assign teachers to deliver lectures according to their specializations and scientific titles and their ratio to the number of students in the scientific departments, as well as holding workshops, seminars and courses on modern scientific methods and methods.



SDG 4: Quality Education

As for the College of Medical and Health Technologies, it was established A symposium entitled Ethics of the Good Teaching Profession and a symposium entitled Entering data into a program spss and prepare it for statistical analysis An introductory symposium entitled (The library is the interface of the scientific and cultural edifice) and a residency Workshop (mechanism for writing graduation research) A workshop on (How to prepare sample questions) and A course entitled (Basics of Summer Training), in addition to taking into account practical sobriety in teaching students and using resources and laboratories with international specifications.

At the Technical Institute in Samawah, it was completed Visiting schools and activating the role of education in building humanity





SDG 4: Quality Education

1. The Nursing Technology Department at the Diwaniyah Technical Institute held a workshop entitled (Sustainable Development Goals).
2. Implementing practical training curricula for practical academic subjects at Al-Hussein A. Children's Hospital for the Department of Health Management Technologies.
3. Creating awareness posters about sustainable development for nursing department students.
4. Participation of the Diwaniyah Technical Institute in the scout camp held by the Student Activities Department at Al-Furat Al-Awsat Technical University.
5. The Department of Health Management Technologies, in cooperation with the Legal Unit, held a field discussion entitled The Practical Application of Civil Service Legislation. The workshop aimed to raise the level of students' knowledge and awareness of the topics of the practical application of civil service legislation and inform them of how to organize files related to legal work.

Pictures of the book exhibition held by the institute's students at the Najaf Technical Institute.





Pictures of the Institute's students' initiative for psychological support for vocational study students during their final exams.



Pictures of the institute's students during their participation in the student camp.



- Al-Furat Al-Awsat Technical University participates in the Scientific Innovations Exhibition: <https://atu.edu.iq/?p=19996>



Al-Furat Al-Awsat Technical University participated in the Scientific Innovations Exhibition organized by the Ministry of Youth and Sports under the patronage of Prime Minister Mr. Mustafa Al-Kadhimi and in the presence of His Excellency the Minister of Youth and Sports Mr. Adnan Darjal. The President of the Al-Furat Al-Awsat Technical University stated during his attendance at the opening proceedings that the Al-Furat Al-Awsat Technical University is among twelve government universities participating in the exhibition. While the pavilion designated for the university included a number of devices, equipment, and student projects that were manufactured with the own capabilities in the university's workshops and laboratories for both the Najaf Engineering Technical College and the Najaf Technical Institute. The President of the University also praised the efforts of the students and professors who participated with their productions in this important forum and their keenness to leave an imprint for the university in all forums. Stressing that the university presidency will always support all creative initiatives that express the promising youth energies at the university and which can have an active role in the construction and development process

- To enhance the means of blended e-learning, the Administrative Technical College opens the technical studio to record electronic lectures: <https://atu.edu.iq/?p=20893>





Professor Dr. Fadel Abdul Abbas Al-Abidi, Dean of the Administrative Technical College / Kufa, opened the technical educational studio for recording the weekly electronic lectures, which was established with the support of the President of AL-Furat AL-Awsat Technical University for the requirements of blended and multimedia e-learning. Educational to enable students to communicate with the professor.

-AL-Furat AL-Awsat Technical University holds a workshop on unifying the curricula of the evaluation examination for health and medical specialties with the corresponding departments in private universities and colleges:
<https://atu.edu.iq/?p=19389>



The College of Health and Medical Technologies, Kufa, at AL-Furat AL-Awsat Technical University held the first workshop on unifying the curricula of the evaluation examination for health and medical specialties for the final stages, with the participation of researchers and specialists from the Department of Medical Laboratory Technologies and the Department of Anesthesia Techniques. The workshop, which was opened by the Dean of the College, Professor Dr. Angham Jassim Al-Ramahi, aims to name and unify scientific curricula for the academic subjects included in the evaluative examination for universities and private colleges. Al-Ramahi also affirmed her keenness on permanent cooperation between the college and private universities and colleges in a way that serves the consolidation of the educational process. The workshop witnessed dialogues and discussions between the two communities, which concluded with the identification of academic topics and the proportion of curriculum compatibility in accordance with the recently received ministerial instructions.

- Opening of the second edition of the Software Scientific Exhibition for the projects of the initial studies students of the Information Technology



Department.

- Opening of the engineering laboratory in Babylon for the Office of Scientific and Consulting Services at the University Presidency
- Launching the university's digital repository ATUDR



- One of the first steps taken by the university for quality education is the rehabilitation of the building of scientific departments at the site of Najaf and the implementation of these infrastructures reflects the implementation of the university of the fourth goal of sustainable development goals "Quality Education" through the provision of infrastructure with contemporary urban designs that take into account the rationalization of the use of financial resources and are environmentally friendly and reflect a suitable, attractive and decent university environment for students and associates
- Second, Scientifically to be graduates codification par excellence the best laboratory techniques, teaching competencies and blended physical and electronic education .
- Al-Furat Al-Awsat Technical University provides free access to all whether they are students at the university or not through different accesses such as Actual & Virtual Libraries, Computers, Actual & Online courses and workshops, free access to the lectures, etc. as in the following evidence





SDG 4: Quality Education

1. Free Libraries (Al-Furat Al-Awsat Technical University,Iraq)



2. Free Access for Computers (Al-Furat Al-Awsat Technical University,Iraq)

<https://t.me/atu2020>

<https://www.youtube.com/channel/UCspR7h6fe217HXPE4ao4I8g/videos>

3. Free Access for Courses & Workshops (Al-Furat Al-Awsat Technical University,Iraq)

https://cnj.atu.edu.iq/?page_id=608

https://isa.atu.edu.iq/?page_id=305

4. Free access for Lectures (Al-Furat Al-Awsat Technical University,Iraq)





Online teaching and classes recording room studio

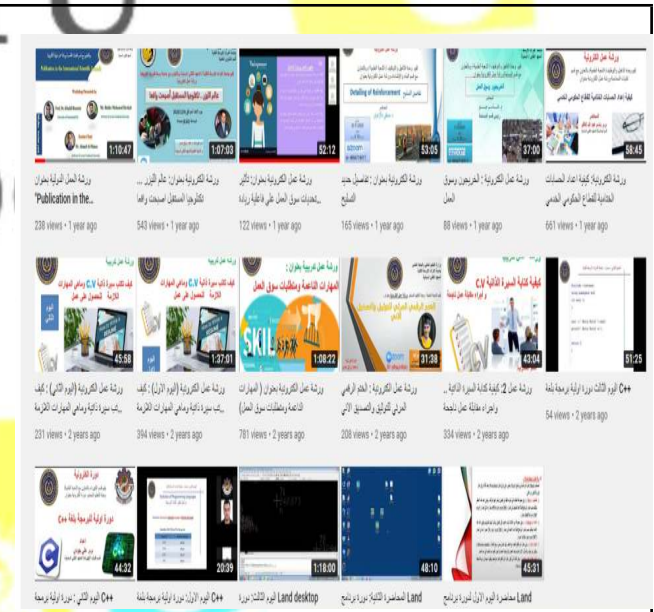
ATU has set goals toward more productive methods to engage students in many classes. All campus locations are now provided with such techniques to record and stream live classes.

For more details about the teaching studio

<https://www.facebook.com/79adnan/videos/512758403963422>



Rules of E-Learning
(Al-Furat Al-Awsat Technical University,Iraq)



Some International Workshops & Courses
(Al-Furat Al-Awsat Technical University,Iraq)



SDG 4: Quality Education



Online Teaching Methods (<https://elearning.atu.edu.iq/login/index.php>)
(Al-Furat Al-Awsat Technical University, Iraq)



Working on applied Bologna Process(Al-Furat Al-Awsat Technical University, Iraq)



Participation in the training program of the organization IREX to qualify students and graduates
(Al-Furat Al-Awsat Technical University, Iraq)



SDG 4: Quality Education

E-Learning

Al-Furat Al-Awsat Technical University Switching its educational system totally into E-learning at the beginning of 2019/2020 because of Covid-19 Pandemic.

This digital transition of Higher Education was an excellent trail to wide chances of learning for students with different E-applications such as (moodle, ZOOM, Google meets, and Google classroom) by applying the rules of the minister of higher education and scientific research.

Virtual Workshop

Moreover, different International and local workshops, and courses were made electronically and now the university still depends on E-application in some of its courses, workshops, and meetings

Online Teaching

(<https://elearning.atu.edu.iq/login/index.php>)

Regarding the Covid-19 Pandemic, teaching and learning at all sites of the university held virtually from 2020 until the end of the 2021-2022 Academic year. This website contains guidelines for the operation and various related information.

E-applications used in online education:



- The following link about; Workshop about how to use Google Meet and forms:
<https://isa.atu.edu.iq/?p=4096>

Student Support:

Students are the main pillar of the university and the makers of the future of the nation. It strives, with all its human and technological capabilities, to provide them with knowledge and technical skill and develop their skills, by providing a university environment suitable for them in all its service, entertainment and health aspects, as well as using the latest equipment in laboratories and educational means in classrooms. To deliver information to them, seek the assistance of teaching and training competencies in the fields of scientific



SDG 4: Quality Education

specialization, and work to support their personal talents in the sports, artistic and literary fields.

Among the aspects of support for students at the university are the following:

- Financial rewards for distinguished students: Students who excelled academically, won advanced positions in sports, artistic and literary activities, and contributed to community service are given financial rewards to encourage and urge them to make more efforts.

Additional link:

- Telegram Channel about ATU Workshop & Courses
<https://t.me/atu2020>
- Workshops and plans during 2020/2021 /Samawa technical institute:
https://isa.atu.edu.iq/?page_id=7520
- International Electronic workshop and Courses:
<https://www.youtube.com/channel/UCspR7n6fe217HXPE4ao418g/videos>
- Students Subject for learning:
https://isa.atu.edu.iq/?page_id=305
- Follow up the lectures in the university:
https://cnj.atu.edu.iq/?page_id=6508
- Scientific Exhibition for students:
<https://atu.edu.iq/?p=18353>



SDG 5: Gender Equality

GENDER
EQUALITY





SDG 5: Gender Equality

For achieving equality, the University's Student Activities Department organized the following activities with the participation of students of both genders, most of which achieved advanced positions at the level of local universities and university formation teams.

1. The Student Activities Department at the University Presidency organized an exhibition match between the university's teaching team and the Iraqi national team of 1986 and the Asian Cup champions of 2007. Closed Hall - University Presidency
2. Hosting the Al-Furat Al-Awsat Technical University, the University Festival of Fine Arts, Main Courtyard - University Presidency
3. The Student Activities Department organized a volleyball tournament (Female students) on the sidelines of the opening of the closed sports hall at the university presidency. Closed Hall - University Presidency
4. The Student Activities Department held a table tennis and chess tournament for students of university colleges and institutes, closed hall - Technical Institute - Karbala
5. Al-Furat Al-Awsat Technical University participated in the activities of the Iraqi Universities Badminton Championship at Al-Mustansiriya University
6. Al-Furat Al-Awsat Technical University participated in the activities of the Iraqi Universities Championship in table tennis and chess at the University of Basra
7. Al-Furat Al-Awsat Technical University participated in the course for preparing mobile and guide officials at Al-Mustaqbal College
8. Al-Furat Al-Awsat Technical University participated in the Qur'anic memorization and recitation competition for Iraqi university students Secretariat of the Grand Mosque of Kufa
9. Al-Furat Al-Awsat Technical University organized a purposeful theatrical performance in cooperation with the Abaad Media Team and the Reyadah Center. Al-Mutanabbi Hall - University Presidency
10. Participation of Al-Furat Al-Awsat Technical University in the Arena and Field Games Forum for Iraqi public and private universities. Al-Kifl International Stadium
11. Al-Furat Al-Awsat Technical University participated in (the Siblings Meeting Festival for various hobbies and crafts, its nineteenth session) under the slogan (Let us shout loudly for Baghdad, civilization and peace). The corridors of the international station in Baghdad



SDG 5: Gender Equality

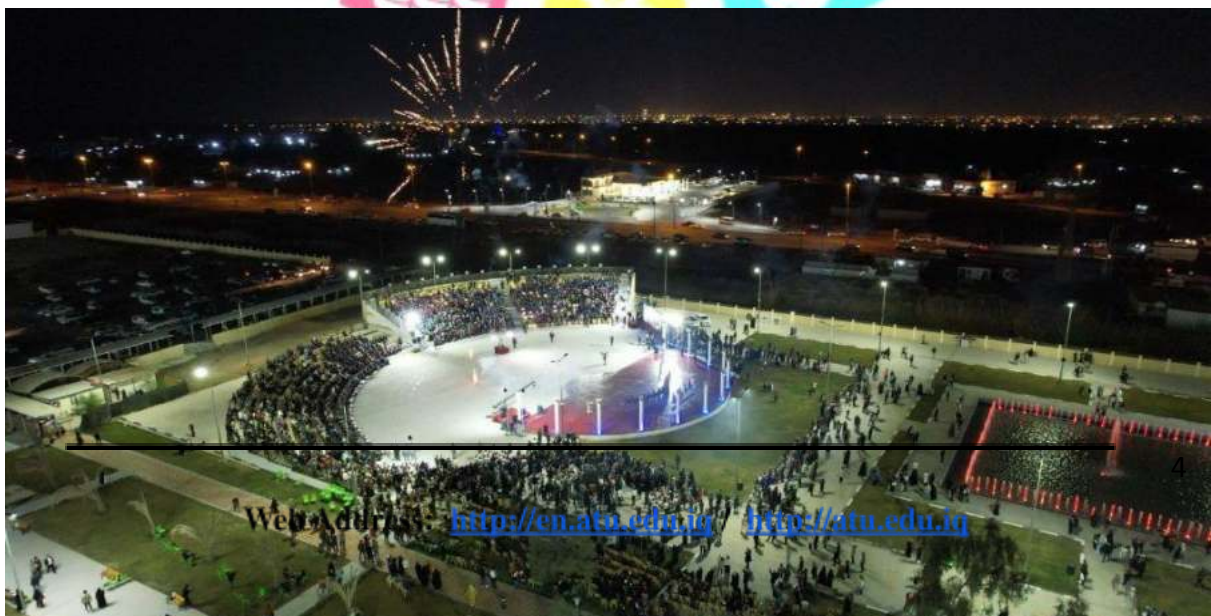
12. Holding a university festival for the art of public speaking and singing for university students (male and female) Technical Institute - Diwaniyah
13. Holding a university festival for applied arts and photographs (Arabic calligraphy and sculpture) for university students (male and female) Technical Institute / Al-Musayyib Technical College / Al-Musayyib
14. Holding the university festival of divination, ceremony and recitation for university students (male and female) Technical Institute / Babylon
15. Residence of eloquent poetry for university students (male and female) Technical Institute/Karbala
16. The Student Activities Department conducted an electronic development course for scouting activity officials
17. The Student Activities Department organized the University Futsal Championship (students) of the Technical Institute - Najaf
18. The friendly match between our university team and the University of Kufa team was held in the closed hall - university presidency
19. Hosting Al-Furat Al-Awsat Technical University, the activities of the Iraqi Universities Football Championship, indoor halls - University Presidency





SDG 5: Gender Equality

- Al-Furat Al-Awsat Technical University celebrates the graduation of its students (Male & Female) for the academic year 2022-2023





SDG 5: Gender Equality

Achieving gender equality and the empowerment of all women and girls. Goals include eliminating discrimination and violence against women and girls; assessment of unpaid care and domestic work; Ensuring the full participation of women; access to reproductive health care; And equal Women's access to economic resources. Social Sustainability aims to promote sustainable progress and achieve gender equality around the world. To achieve this goal, the university, with all its formations, implemented the following activities through the Women's Empowerment Division in the university presidency and the women's empowerment units in all the university's formations:

All formations organized a celebration on the occasion of Women's Day in cooperation with the Women's Empowerment Unit. The goal of this celebration is to break the distinction and recognize all the efforts made by women in various aspects of life and encourage the participation of female students in various sports, artistic and literary tournaments and festivals, in addition to women assuming positions at the university. A leader in the presidency of the university and its departments Women's Empowerment Units hold courses on various topics, including: The exacerbation of the phenomenon of domestic violence, the role of artificial intelligence in early diagnosis of breast cancer, enhancing the role of women in management and leadership, a campaign to combat the phenomenon of harassment, and a symposium entitled The impact of the increasing divorce rate on community unity, as well as workshops, seminars, and the distribution of awareness posters inside and outside the university as activities for women in it.





SDG 5: Gender Equality

A symposium on women's rights in Islamic legislation and a workshop on violence against women in the Iraqi Penal Code No. 111 of 1969.

Standard procedures for responding to and preventing violence against women in the workplace

Awan Organization for Awareness and Capacity Development, in cooperation with the Women's Rights Center in Samawa, holds a series of meetings to develop and formulate policies (combat harassment in the workplace)

Samawah 8/31/2023





SDG 5: Gender Equality

Al-Furat Al-Awsat Technical University celebrated the graduation of a new batch of its students for the academic year 2022-2023. For preliminary studies, those holding technical diplomas and technical bachelor's degrees in various specializations (technological engineering, administrative, financial, accounting, health, medical, agricultural, and applied arts), as well as graduates holding higher degrees, master's and technical doctorates.

The President of the University delivered a speech in which he explained that the University, in recent years, has adopted many promising initiatives related to the Sustainable Development Goals (SDG17) announced by the United Nations in its 2030 Agenda by increasing green spaces with an area of more than ten thousand square metres, and adopting renewable energies in a number of areas. Its vital facilities, and the adoption of an extensive reconstruction campaign that resulted in the opening of many projects in all the university's formations, which included classrooms, laboratories, arenas, service facilities, student clubs, administrative buildings, and infrastructure that included roads, liquefaction lines, and sewage.

The university will soon witness, God willing, the opening of the largest complex of research laboratories on Earth. The level of Iraqi universities to constitute a qualitative leap in revitalizing the scientific research movement at the university and to be available to all researchers and postgraduate students from other universities.

The university has also organized during recent years many scientific conferences inside and outside Iraq that have had an impact in enhancing the university's credit in Scopus and Clarivate to nearly More than two thousand five hundred scientific research papers and the university's entry into a number of prestigious international classifications.

The celebration witnessed a number of events, including ceremonies for awarding certificates to graduates of colleges and institutes, reciting the oath, and a candle march in memory of the martyrs of steadfast Gaza. The ceremony concluded with the distribution of gifts to the top students at the university's institutes and colleges, and taking souvenir photos.



SDG 5: Gender Equality

Women at Al-Furat Al-Awsat Technical University: Women occupy a distinguished and significant position in the university through their participation in developing strategic plans and assuming senior administrative positions. Since 2019, the role of women has become more prominent through the university presidency giving more attention to them and all their achievements within the university's work. This indicates the lack of distinction between them and the second gender in terms of Assuming responsibilities, granting her powers, and assuming administrative positions within the university presidency and all its formations.

In order to achieve the sustainable development goals set by the United Nations, the Women's Empowerment Unit was created to take care of everything related to them, including their scientific and societal achievements and the problems they suffer from. It is linked to the office of the President of the University and has liaison members in all formations whose mission is to clarify the role and status of women in the university and implement activities such as courses, workshops and seminars to reflect their presence in society and how they deal with developments to protect their family from the negative phenomena spread in society and enhance their role in their workplace and obtain all the same privileges. With the second gender, this achieves the fifth goal of the sustainable development goals, "gender equality." This unit is responsible for following up on activities in all university formations, because women in the university have a distinguished position in achieving university sustainability, and this achieves the tenth goal of the sustainable development goals, "reducing inequality." These activities include holding seminars, workshops, and courses on combating violence against women, unfair customs and traditions, self-development, and personal strength, and their importance in community development, as well as holding festivals to celebrate Women's Day and honoring distinguished women in university formations. The activities also included field visits to orphanages, the elderly, and people with special needs to provide Financial and in-kind assistance to them, visiting girls' internal departments to determine their needs and assistance, holding charitable bazaars to support needy students, and distributing posters urging combating violence against women and their role in building society. The number of seminars, workshops, and courses held by the Women's Empowerment Unit at the university's headquarters and its formations reached (35).) activity . Carrying



SDG 5: Gender Equality

out these activities is only an embodiment of the role of women in serving society and contributing to its reform, in addition to their position in the university. Thus, they contribute to achieving sustainability for society and the university.

- **Al-Furat Al-Awsat Technical University holds an event to support the fight against violence against women: <https://atu.edu.iq/?p=19934>**

The Department of Health Management Technologies at the Diwaniyah Technical Institute, in cooperation with the Women's Empowerment Unit, held a palm print mural event in support of the fight against violence against women, as part of the periodic anti-violence programs held under the slogan (Break your



silence and do not surrender). Dean of the Diwaniyah Technical Institute, Dr. Zaid Maan Hassan, and a number of the Institute's employees and students participated in the event.

- **Najaf Engineering Technical College at Al-Furat Al-Awsat Technical University holds a festival to combat violence against women.: <https://atu.edu.iq/?p=23132>**





SDG 5: Gender Equality

As part of the activities planned to be implemented for the sixteen-day campaign to combat violence against women, and in the presence of the Dean of the Engineering Technical College, his assistants, and a number of department heads and teaching staff at the college, the Women's Empowerment Unit at the Najaf Engineering Technical College at Al-Furat Al-Awsat Technical University, in cooperation with the Student Activities Division at the college, held a festival against violence against women. violence against Woman.

The festival included a theatrical performance urging combating violence against women, in addition to expressive artistic paintings.

In conclusion, Al-Husseini thanked all those responsible for these tasks, including professors and students, and stressed that women are the first homeland for every life.

- **Al-Furat Al-Awsat Technical University celebrates International Women's Day:** <https://atu.edu.iq/?p=20403>

As part of the activities of the Women's Empowerment Unit, the Presidency of Al-Furat Al-Awsat Technical University held a ceremony on the occasion of International Women's Day on the eighth of March of each year. Mrs. Zainab Hussein Al-Bakka, head of the Women's Empowerment Unit, gave a speech on the occasion in which she pointed out the importance of women and their great role in building society and thanked Mr. President. The university for its continuous support of activities and events related to women's empowerment. the Presidency of Al-Furat Al-Awsat Technical University, in his speech, congratulated everyone on this occasion, pointing out that women represent the basic link in the formation of the family, which constitutes the nucleus for building society. in his speech, cited titles and great names of women who had a great impact on the renaissance of nations, both at the beginning of Islam and the eras that followed, as well as in our history. Contemporary women have become role models for all the women of the world because of the sacrifices they made and their positions recorded in history with letters of light. the Presidency of Al-Furat Al-Awsat Technical University concluded his speech by saying that women are the pillars of society, and if they are reformed, societies are reformed. The ceremony was attended by the scientific and administrative assistants to the president of the university, a number of department directors, and a group of associates.

-



- **Al-Furat Al-Awsat Technical University organizes a volleyball tournament for female students on the sidelines of the opening of the indoor sports hall: <https://atu.edu.iq/?p=23044>**



Under the patronage of the President of Al-Furat Al-Awsat Technical University the Student Activities Department organized a volleyball tournament (female students) on the sidelines of the opening of the indoor sports hall at the University Presidency. The team from Al-Furat Al-Awsat Technical University, the University of Kufa, the College of Physical Education and Sports Sciences, and the College of Education participated in the tournament. For girls and Al-Mustaqbal University College, this comes within the direction of the university presidency for openness and partnership with local universities in scientific and student activities. Al-Zuhairi, in a statement to Al-Iraqiya Sports Channel, which was present to cover the opening ceremony and the tournament, pointed out the importance of the role of playing sports in enhancing the spirit of love, cooperation, and scientific competition among students, stressing that the university is continuing to implement many service and entertainment projects related to students, offering his thanks and appreciation for the efforts that were made in the opening. The sports hall and the holding of this tournament. On the other hand, the Director of the Student Activities Department, Dr. Naseer Ahmed Kamel, stated that this tournament is the first sporting event held in this hall in its new look for the academic year 2022-2023 and in the presence of the academic, media and sports elites. The results of the matches resulted in the victory of the University team. Al-Furat Al-Awsat Technical University took third place, while the team from Al-Furat Al-Awsat University College won third place repeatedly. The team from the College of Education for Girls at the University of Kufa won second place, and the team from the College of Physical Education and Sports Sciences at the University of Kufa won first place. At the end of the matches, the



President of Al-Furat Al-Awsat Technical University honored Professor Dr. Muzaffar Sadiq Al-Zuhairi presented the participating teams with medals and cups, after which souvenir photos were taken.

- **The Women's Empowerment Unit at Al-Furat Al-Awsat Technical University holds a symposium on the Law of Universal Attraction:** <https://atu.edu.iq/?p=21226>



To

learn about the law of attraction for things and change stereotypical thinking into creative and creative thinking and the effect of positive energy and breaking the barriers that create negative energy and excessive thinking. The President of the University also pointed out in his speech during his presence the importance of the activities held by the Women's Empowerment Unit in order to enhance their capabilities. Scientifically and culturally, to be an effective element in achieving the lofty goals that serve Iraqi society. The session was attended by the Scientific Assistant to the University President, Professor Dr. Ahmed Ghanem Waday.

- The Women's Empowerment Unit has been established and has a direct link with the Office of the President of the University and has members in all its sites whose task is to take care of women's rights and support and communicate their views and voice to the Presidency of the University, and has carried out several activities, festivals and workshops on issues related to society and shows the role of women in it, in order to ensure their right to equality with the opposite sex and this achieves the fifth goal of the goals of sustainable development "gender equality" and this unit is responsible for following up the activities that concern women at the university as a key element contributes to the sustainability of the university. In order to ensure its right, status and role in society and the university, this achieves the tenth goal of the Sustainable Development Goals "Reducing inequalities"



SDG 5: Gender Equality



- Students are admitted on the basis of the rate without discrimination between the sexes and this achieves the fifth goal of the Sustainable Development Goals, which is "gender consolation" in access to educational opportunities as well as the achievement of the tenth goal of the Sustainable Development Goals which is "Reducing inequality" as there are no laws or instructions that limit gender inequality in access to education and employment opportunities for admission to university specializations.





SDG 6: Clean Water and Sanitation

CLEAN WATER
AND SANITATION





The university achieved this goal through the following:

- Protecting water resources and rationalizing their use
- Preserving water and providing it in a healthy manner is represented by the sixth goal (clean water and sanitation) of the seventeen sustainable development goals set by the United Nations. The university is working to achieve it by adopting the use of more rational methods in irrigation for agricultural projects or watering gardens (such as drip irrigation methods). Spraying or digging artesian wells and lined canals), performing continuous maintenance operations and using devices and equipment with advanced technologies to reduce water consumption, as well as using stagnant water from rivers. In some formations, the water is recycled and treated for use in irrigating crops, as in the Musayyib Technical Institute.



An image of obtaining water to irrigate crops using clean energy technology



An image of a field being irrigated using a drip method

This reflects the reliance on natural resources of solar energy to provide energy and water in a way that does not affect the climate, but rather reflects positively on it by increasing green spaces, reducing desertification, and



increasing water bodies.

Ensure availability and sustainable management of water and sanitation for all
Targets include ensuring access to safe and affordable drinking water, sanitation and sanitation for all, and reducing pollution; Increasing water use efficiency; Strengthening participatory management of water and sanitation services. Social sustainability aims to ensure access to water in the region sufficient for domestic use and small agricultural projects for the poor majority. To achieve this goal, the university implemented the following activities:

Many workshops and seminars were held with (26) activities, in addition to conducting an educational awareness campaign. By publishing awareness posters to students on World Water Day, as well as on preserving ocean and sea water and water resources and rationalizing their consumption. The number of published researches on water reached (13), and holding a workshop on Rationalizing the consumption of potable water in light of the worsening water crisis locally and globally. In addition to publishing A number of guidelines in the corridors of the university's formations to maintain them.



Distributing posters on the importance of rationalizing water use

In addition to the continuous maintenance of drinking water stations and garden irrigation networks in all university formation sites.



Maintenance work for irrigation and drinking water systems

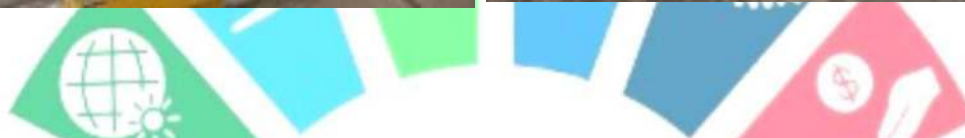


Publishing a number of research papers concerned with water and environmental management, as shown below:

Environmental Assessment Using Canadian Water Quality Index for Hilla River in Babylon Governorate, Iraq	1
Estimations of chemical contents of the musculoskeletal system in two cyprinid fishes Arabibarbus grypus and Leuciscus vorax	2
Potential impact of drought on Mikkes River flow (Morocco)	3
The Effect of Irrigation Water Salinity, Organic Matter, and Zinc Nano-Fertilizer on the Productivity of Sunflower (Helianthus annuus L.)	4
Efficiency of Silver Nano Particles in Removing Escherichia coli ATCC 25922 from Drinking Water Distribution Pipes Escherichia coli ATCC 25922 from drinking water distribution pipes	5
SOIL POLLUTION STANDARDS WITH HEAVY METALS IN SOILS OF DIFFERENT USES IN BABYLON PROVINCE	6
SOIL POLLUTION STANDARDS WITH HEAVY METALS IN SOILS OF DIFFERENT USES IN BABYLON PROVINCE	7
A new framework for assessing the sustainability of municipal solid waste treatment techniques applying multi-criteria decision analysis	8
Estimation of Muskingum's equation parameters using various numerical approaches: food routing by Muskingum's equation	9

4- Establishing an awareness campaign to raise awareness of World Water Day, targeting students and employees of Al-Musayyib Technical College. The Department of Building and Construction Technologies held an awareness campaign in order to raise the awareness of Iraqi citizens about the critical situation their water resources are going through, and to enhance their sense of responsibility to alleviate the severity of this crisis.





5- A researcher from Al-Musayyib Technical College (Zeina Hussein Ali) obtained a master's degree for her thesis entitled (Improving the quality of drinking water using distribution pipes coated with silver nanoparticles). The thesis dealt with the use of the latest techniques for treating and disinfecting drinking water, which is the technique of partial coating with silver nanoparticles. The study aims to test the performance and capabilities of AgNPs as antibacterial disinfectants, as two types of bacteria most prevalent in drinking water pipes were tested: Escherichia coli and Pseudomonas aeruginosa. This study dealt with the use of the latest drinking water treatment and disinfection techniques, which is the technique of partial coating of drinking water pipes with silver nanoparticles (AgNPs) (as drinking water may be exposed to contamination when it passes through water distribution pipes due to cracks in the pipes or repair, construction and connection processes. The results obtained from the laboratory work showed The AgNPs coating had clear effects against both of these types of bacteria, as high rates of inhibition were recorded, reaching 100% after a few minutes of





passing the bacteria-laden water through PVC pipes partially coated with silver nanoparticles. The exposure time and AgNps concentration had a direct effect on the rate of bacterial inhibition. In her study, the researcher recommended emphasizing the need to conduct further studies on the long-term work efficiency of tubes coated with AgNPs, in addition to developing a feasibility study to determine the economic cost of the coating process with silver nanoparticles.

6- A research study was prepared on water technologies and the drip irrigation organization in Al Salam Residential Complex, and this study was submitted to Al-Sabtain Contracting Company.

7- The Department of Building and Construction Technology Engineering, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University, and in cooperation with Tanaka University in Malaysia, organized an electronic workshop on Empowering the Future: Innovations in Sustainable Power Generation Empowering the Future: Innovations in Sustainable Energy Generation

The workshop aimed To introduce participants to the latest innovations and developments in the field of sustainable energy generation and to promote knowledge exchange, cooperation and communication among participants with the ultimate goal of promoting and accelerating the transition towards a more sustainable and environmentally friendly energy generation system.

The workshop included several topics, the most important of which are: Presenting innovative technologies and solutions, discussing policies and regulatory frameworks, in addition to addressing challenges and obstacles, enhancing cooperation and partnerships, raising awareness and disseminating knowledge.



Dr. Firas Bassem Ismail, Head of the Energy Research Department from Tanaka University in Malaysia, and Dr. Haider Fawzi Al-Shukarji from Al-Musayyib Technical College, lectured in it, and it touched on various topics related to sustainable energy generation and renewable energy, energy storage solutions, grid integration and smart grids, policies and regulatory frameworks, Sustainable energy generation in developing countries, social and environmental impacts, financing and investment opportunities, as well as future innovations and trends.

Permanent maintenance of the RO water filtration stations at the institute. There are two unit stations that provide a thousand liters per hour and another that provides 250 liters per hour in the internal departments of the institute, and also provides a large number of water sprinklers for the gardens.



Interest in afforestation campaigns aimed at expanding green spaces and improving the local environment at the institute



SDG 6: Clean Water and Sanitation



cleanliness

ATU

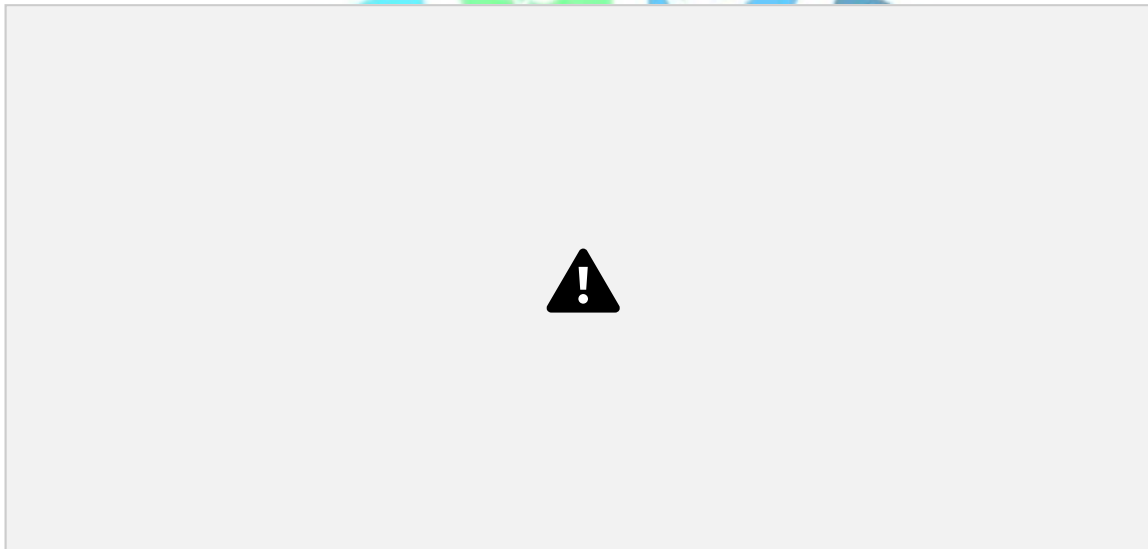
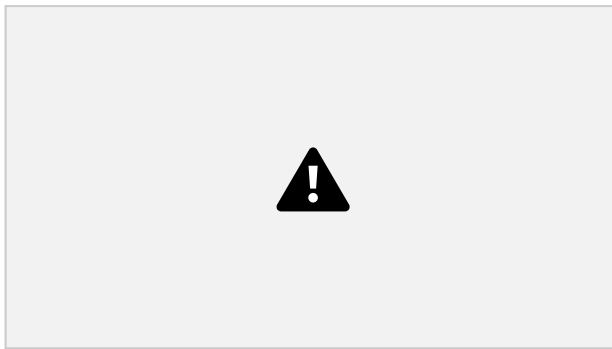


Water
conservation





SDG 6: Clean Water and Sanitation





SDG 6: Clean Water and Sanitation



SDGs

- **Opening a model rest station on the university campus in Kufa:**
<https://atu.edu.iq/?p=20425>

The President of Al-Furat Al-Awsat Technical University, inaugurated a model rest station with an area of three hundred square meters, distributed over three spaces, two of which were roofed with tiles, while the third space was roofed with solar energy cells. The station was also equipped with benches and tables for students to sit and points for charging electronic devices. ... This comes in the context of the university's orientation to adopt renewable energies and achieve sustainable development goals.

It is worth noting that the project was implemented by the engineering and technical staff in the Department of Construction and Projects at the University Presidency. In his speech during the opening, the President of the University praised the efforts made by the staff of the Department of



Construction and Projects and other supporting circles to complete the project, noting at the same time The reconstruction process at Al-Furat Al-Awsat Technical University is taking place at an increasing pace in all university formations to achieve a model university environment.

Wastewater Treatment

Al-Furat Al-Awsat Technical University has a system to prevent polluted water by wastewater treatment and conserve systems.



Monitoring and Evaluation

Monitoring and evaluation reports did regularly every month.

-Thesis about Monitoring and evaluation of water pollution

<https://atu.edu.iq/?s=%D8%A7%D9%84%D9%85%D9%8A%D8%A7%D9%87>

- President of Al-Furat Al-Awsat Technical University, an honorable member of the discussion committee for a master's thesis tagged (strategic planning through drawing water pollution maps using geographic information systems (GIS) for a specific area. The President of Al-Furat Al-Awsat Technical University, participated in his capacity as an honorable member of the discussion committee for a master's thesis in the field of surveying engineering and tagged (strategic planning through water pollution mapping using GIS for a specific area)

(Strategic Planning Through Mapping of Water Pollution Utilizing Geographic Information System GIS for Select Area).

The thesis presented by the master's student, Sahar Essam Wadih, included research on strategic planning, which is based on supporting tools, with the aim of overcoming the



SDG 6: Clean Water and Sanitation

problems of lack of data adopted by any project or strategic resource in all major sectors that concern human life, directly and indirectly.

The message that was discussed in the Engineering Technical College, Baghdad, reached

To the reasons for the common gap in the accurate and correct planning system, the most important of which is the lack of an accurate organized archive according to the correct scientific foundations of the database related to any strategic resource related to the lives of the population in any country.

During the study, pollution levels were determined in a number of sections of the Tigris River in Baghdad, taking into account the pumping stations for municipal and industrial wastewater by adopting the water quality index, and then preparing maps using geographic information systems technology to represent pollution levels that can be benefited by owners. The decision to assess the state of the river in terms of quantity and quality and to develop future strategic plans related to the water resource within the study area.

The study also recommended the use of geographic information systems (GIS) for its comprehensive importance as a software system used in several areas, foremost among which is water pollution.



-The university and all its sites work to rationalize the use of water to meet its needs except for the personal use of associates and students or for watering gardens and agricultural fields and the university has implemented (7) courses and workshops to reduce and rationalize the use of water, as it adopts the policy of using raw water by connecting pumps on rivers and delivering it for the purpose of watering gardens and agricultural fields, especially in formations where there are agricultural specialties.

-The Kufa Technical Institute and the Diwaniya Technical Institute have worked on installing pumps for the purpose of watering gardens, agricultural fields and trees even in the middle islands of the public street adjacent to its borders as a contribution to community service, while in the Technical Engineering College of Musayyib has been established to reclaim the agricultural lands of the College, while the Technical Institute of Karbala follows the policy of reducing the consumption of water quantities through the drilling of artesian and driving wells and reducing the watering of crops by using irrigation with sprinklers and drip



SDG 6: Clean Water and Sanitation

-As for the Technical Institute of Babylon, it uses the water that is mixed with a pull from the rivers by erecting pumps to water the gardens inside the Institute and the residential neighborhood of the Institute, and the Technical Institute of Musaib uses the dampened water as well as watering with sprinklers and drip to reduce the waste of water as well as the use of wastewater after treatment for watering the plantations. The University has held a number of (12) workshops, seminars, and courses on rationalizing the use of water and preserving it from waste, as well as publishing posters on not wasting water and preserving it, and the University's directives emphasize the continuous maintenance of water.

-It should be noted that the university has implemented several infrastructures during 2021 based on self-financing, namely the establishment of a rainwater drainage network.



Water Conservation (Al-Furat Al-Awsat Technical University,IRAQ)



SDG 6: Clean Water and Sanitation



Water Conservation - In-Ground Water Tank (Al-Furat Al-Awsat Technical University, IRAQ)

Water Conservation – Making Lake (Al-Furat Al-Awsat Technical University, IRAQ)

1. At the campus of all sites of the university, have separate sewerage systems. to collect water from different sources and then treat it to be ready to use in the campus.

1- Rainwater harvesting: is a perfect and easy source to collect rainwater in the university by certain systems of pipes to store it in big tanks and then treat it to use later.

2- Lake (area: 500m²): is used for three purposes in the university; first: to water the plants & animals
second: to keep the environment and third: to conserve water from different sources.

3- Ground Water Tank: Is an additional program to conserve water from different sources as underground water, rainwater ..etc in the university.

-Several buildings at the University have groundwater tanks and groundwater wells for water conservation programs. Also rainwater is collected and discharged into the local ponds and canals around the campus. This clean water is usually used for several purposes, including watering the plants, washing cars, cleaning, and toilet flushing.



SDG 6: Clean Water and Sanitation

- President of Al-Furat Al-Awsat Technical University, an honorable member of the discussion committee for a master's thesis tagged (Using geographic information systems and remote sensing to identify areas at risk of flooding / Samawah and Maysan, a case under study)

The President of Al-Furat Al-Awsat Technical University participated in his capacity as an honorable member in the discussion committee for a master's thesis in the field of surveying engineering and tagged

(Using GIS and RS to determine areas at risk of flooding, Samawa and Missan as a case study)

The thesis submitted by master's student Asia Egypt Noman included conducting water flow analysis on the topography model of the study area by using Arc Hydro tools to derive many data that describe the patterns of drainage of water bodies.

Landsat satellite images were also used, as well as the weighted overlay technique, which is one of the multi-criteria assessment techniques in the GIS environment, to determine the flood risk by using different weights for each factor affecting the final decision.

This study helps, through the maps that were produced, decision makers and experts in developing future plans to avoid the dangers of flooding in the study area.

The discussion that took place in the College of Engineering Technology in Baghdad concluded with the success of the student and her obtaining a master's degree with distinction.



- Inauguration the project of the Zamzam yard and station for chilled drinking water and the building of computer laboratories on the university campus in Kufa.

Within the framework of the university's directions and its endeavor to improve the educational and service infrastructure.. The President of Al-Furat Al-Awsat Technical University and in the presence of the Governor of Najaf, Dr. Majed Al-Waeli, inaugurated the project of the Zamzam yard and station for chilled drinking water on the campus in Kufa and the building of computer laboratories at the Institute Kufa .. Where the project was initiated in early July of this year by the engineering staff in the Department of Construction and Projects in the Presidency of the University and the Technical Institute of Kufa.

The project includes building and installing a water filtration system using RO technology and a cooling system to provide chilled water for students with a capacity of 1000 liters per hour, in addition to rehabilitating a yard surrounding the station with an area of 1600 square



SDG 6: Clean Water and Sanitation

meters, in addition to other accessories such as student seating benches, which are equipped with sockets for charging electrical appliances, in addition to night lighting. for the site..

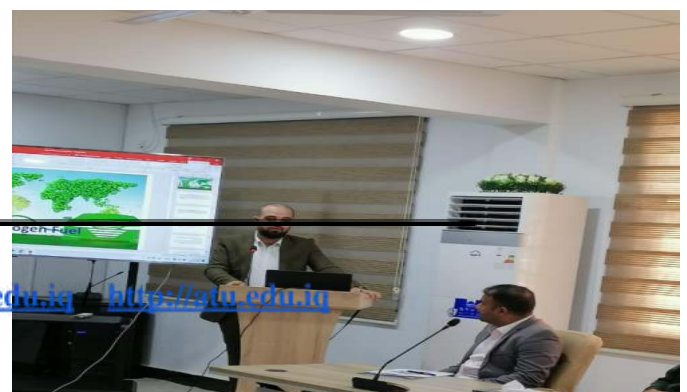
It should be noted that the project is the second of its kind on the university campus in Kufa, where the Al-Kawthar potable water station was previously opened in late 2021.

The building of computer laboratories has also been opened at the Kufa Technical Institute, which includes four laboratories that have been equipped with all the necessary requirements of devices, furniture and equipment that make them model laboratories that provide high-quality training.

This was witnessed by the opening ceremony, which was attended by the assistants and a number of deans of formations and directors of departments in the presidency of the university and associates and students of the Technical Institute of Kufa. The honoring of the Dean of the Technical Institute of Kufa, Professor Dr. Fadel Sami, and the Director of the Construction and Projects Department in the Presidency of the University, Dr. Muhannad Al-Khakani, and the Director of Departments witnessed The Ministry of Interior, Dr. Hassan Hadi, the Director of Court Affairs, Mr. Muhammad Abbas, and the engineering and



- Al-Furat Al-Awsat Technical University offers educational programs (workshops & courses) on fresh-water ecosystems (water irrigation practices, water management/conservation) for local or national communities





SDG 6: Clean Water and Sanitation



The university relies on programs to reduce water consumption in the toilets and buildings by switching faucets to automatic faucets to ensure that the amount of water used is reduced and that it is automatically closed after use and that water is not wasted.

Water efficiency solutions in university also include:

- Installing faucet aerators
- Fixing a water valve leakage
- Using leftover water for houseplants
- Using a watering can or garden hose with a trigger nozzle instead of a sprinkler
- Using a bucket and sponge when washing a car rather than a running a hose
- Washing clothes and linens in a washing machine rather than washing them by hand
- Recycling greywater for toilet flushing water and garden use
- Watering outdoor plants in the morning or in the evening when temperatures are cooler



Appliance	Total Number	Total number water Efficient appliances	Percentage
Toilet	140	110	78.5%
faucet	330	240	72.7%
		Average Percentage	75.61%

- ATU University cooperates with local governments on water security and management by offering free educational workshops and courses as indicated in the official university letter to Al-Najaf City Governorate shown below.
- ATU Policy for Water Efficient Appliances Usage





SDG 6: Clean Water and Sanitation



Water Efficient Appliances Usage (Al-Furat Al-Awsat Technical University,Iraq)



Drip Irrigation (Al-Furat Al-Awsat Technical University,Iraq)



SDG 7: Affordable and Clean Energy





- **Al-Furat Al-Awsat Technical University used the Solar Energy System & Wind Energy for more efficient energy.**

The university encourages the establishment of clean power plants using solar cells & Wind Energy, as (7) power plants have been established and this contributes to reducing the consumption of electrical energy as well as reducing its costs, and at the site of the presidency of the university in Kufa, the building of scientific departments is provided with clean energy, as well as feeding student rest stations on site with electricity points to force the charging of their mobile phones and computers from them, and nowadays working on the production of renewable energy through the flow of water.





- **Operating a solar-powered water pumping system at AL-Furat AL-Awsat Technical University/ Karbala Technical Institute**

In order to achieve the goals of sustainable development through the transition towards clean energy, a number of students, under the supervision of their teachers, were able to install a water pumping system powered by solar energy.

Note that one of the specifications of this project is that it can work during the day or night by connecting a 350-watt solar cell to a 13-amp DC water pump. A humidity sensor has also been connected to the system so that it works automatically without human intervention.





SDG 7: Affordable and Clean Energy



Workshops about clean energy (Al-Furat Al-Awsat Technical University,Iraq)



Ensuring access to affordable, reliable, sustainable and modern energy for all

The goals include ensuring everyone has access to affordable, reliable and modern energy services.

Environmental sustainability aims to ensure sustainable or optimal use of land, forests, energy and mineral resources. To achieve this goal, the university implemented the following activities:

The university has achieved great progress in adopting clean energy and increasing its production to meet part of its sites' electrical energy needs by using solar panels, spreading the culture of clean energy and benefiting from natural energy sources, as well as holding workshops and seminars, the number of which reached (43), on the importance of renewable energy and the use of motion sensors to illuminate public facilities, the use of economical lighting lamps instead of regular lamps, the use of air conditioning devices with inverters instead of regular devices to reduce electrical energy consumption, and the holding of a workshop on designing a solar energy system for a residential house by the Department of Electrical Technologies and Solid Waste Management and its role in achieving sustainable development. A number of Published research on clean energy (46) research.



For activities on renewable energy, health, water conservation and hygiene / Al-Musayyib Technical College



1- The Department of Soil and Water Technologies, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College, held a course (Water Pollution with Heavy Metals). The course, which lasted five days, aimed to introduce the dangers of water pollution, the damage it causes, and the critical limits of heavy metals in it.

The course included several topics, the most important of which are: Heavy metals, sources of heavy metal pollution, health effects and pollution in Iraq, as well as pollution with products imported into Iraq.

The course touched on the causes of water pollution, the methods used to remove or reduce pollution, the effects resulting from pollution, the most important studies and modern techniques about that, and the importance of developing solutions and increasing awareness of preserving the environment and its resources, especially water, one of the types of pollution that has become a threat to living organisms, to achieve sustainability in the ecosystem through Commitment to safety standards and environmental preservation in accordance with international regulations.

Target group: Researchers, graduate and undergraduate students, professors and members of the Department of Soil and Water Technologies.

Both attended the session

A. M. Sabah Latif Assi

A. M. Muhammad Tarkhan Abu Al-Meikh

M.D. Muhammad Malik Hamed





Target group: Academics and researchers in the field of sustainable energy.



8- The Department of Electrical Power Technology Engineering at Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University discussed the graduation projects of its fourth-stage students for the academic year 2022/2023.

The goal of discussing student projects is to consider their completion rate, identify the obstacles facing students during project implementation, and benefit from the guidance that professors provide to students to produce the best results for their graduation projects.



A committee was formed for this purpose, and the students' graduation projects revolved around using the hybrid system to generate electrical energy. Wind energy and solar energy were chosen as clean, sustainable energy sources for generating electricity, and the possibility of applying them in Iraq was studied. The work was divided into groups, and each group was working on part of the project. During which they studied

the possibility of generating electrical energy from wind and reached results about the use of the best types of turbines that can be used in Iraq, as well as the optimal use of solar panels. A section of the projects touched on the ATS system and the possibility of benefiting from it in modern smart control of homes and various loads, and a section of the projects presented a topic. It is important to manage the electrical network, while he discussed the use of alternative energy in cooling homes and finding the best systems used in cooling homes using alternative energy.



Activities on renewable energy

Installation of a solar energy system with a capacity of 3330 watts (maximum power) at the Najaf Technical Institute at Al-Furat Al-Awsat Technical University.





Renewable energy

Students university Euphrates Middle Technology They implement project cleaning cells Solar automatic¹

do Students College Technology Engineering Najaf One Formations university Euphrates The middle Technology , project cleaning cells Solar automatic²

And it was the goal from Project The process system cleaning automatic for cells Solar for surname from accumulation Dust on Panels PV Consequently Decrease big in production Energy , and that Area Geography in Iraq Rich With energy List on Light³ The sun , but Circumstances Desert Severe Dust Consequently Affect on Potential Obstetrics , Van project The process cleaning Helps on fix Enough⁴AE Panels Solar In a way general and cleaning Panels Solar In a way daily and active To avoid Dust and dirt and moisture and particles dried And also condensation Dew Attendant for the plates Solar.

And he mentions In there more in Use order Solar in Industries And also in Homes , Than Gives area⁵ My future⁶ East⁷ For this order.

and that order The mechanic that I suggested it Students and Use Latest Innovations And replace Technologies The usual To clean Panels Solar , non practice any pressure and carry mechanical on Panels and saving Alma⁸ and time and wealth , And cancels Costs Plumbing And costs Repeated Related With water.

Students of Al-Furat Al-Awsat Technical University are implementing (a project to install and connect a photovoltaic cell system with a capacity of (3 kilowatts)).

Students from the Najaf Engineering Technical College, one of the formations of Al-Furat Al-Awsat Technical University, implemented a project to connect a system of photovoltaic cells with a capacity of (3 kilowatts)).

The goal of the project was to equip the Power Mechanics Department building with alternative energy with a capacity of (3 kilowatts) by relying on photovoltaic cells as an alternative to electrical energy in the event of a national grid outage, thus reducing the burden of dependency on the national grid, based on the fact that the geographical region in Iraq is rich in existing energy. On the sunlight.



At the same time, the project was divided into three groups, each group researching an aspect of the project in its study. The first group (designing and building a photovoltaic system with a capacity of (3 kilowatts)) researched aspects of purchasing the best panels and their supplies and the latest technologies used in enhancing reliability on photovoltaic cells as energy. Alternative.

While the second group studied the effect of operating temperature on the efficiency of solar panels in the holy city of Najaf. Operational conditions have an effective role in the efficiency of panels and suggest the best ways to address them and how to overcome them using the best technological techniques in this regard.

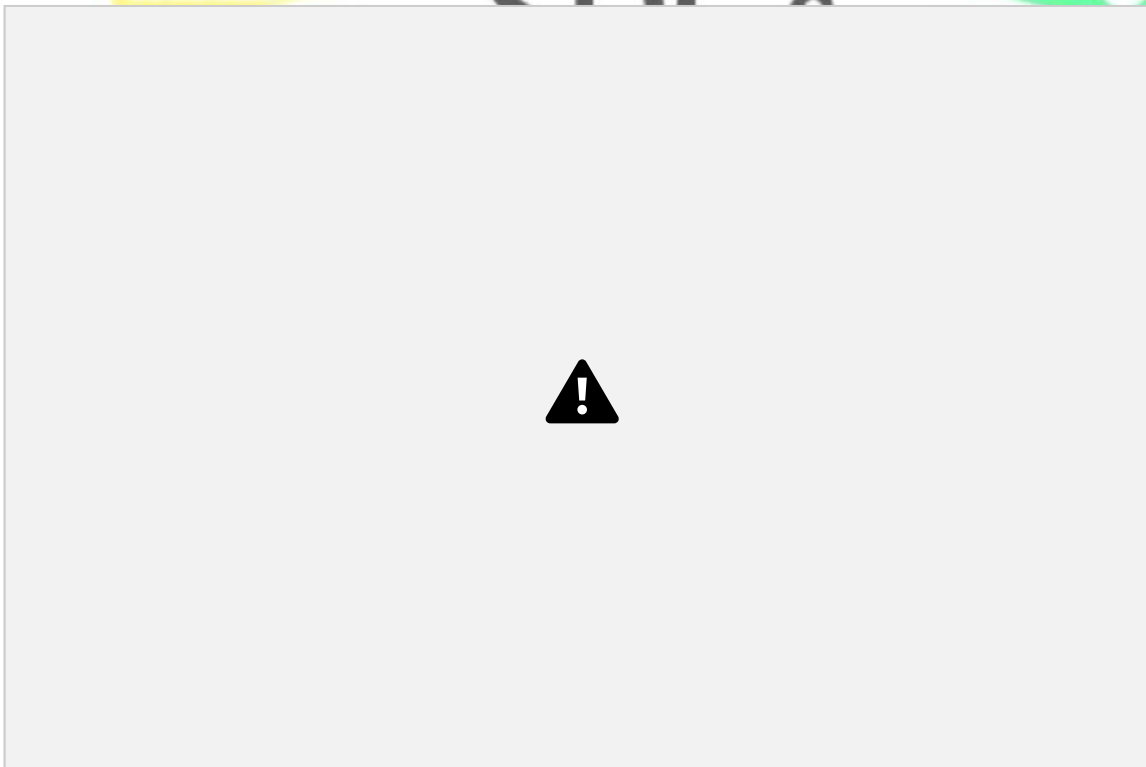
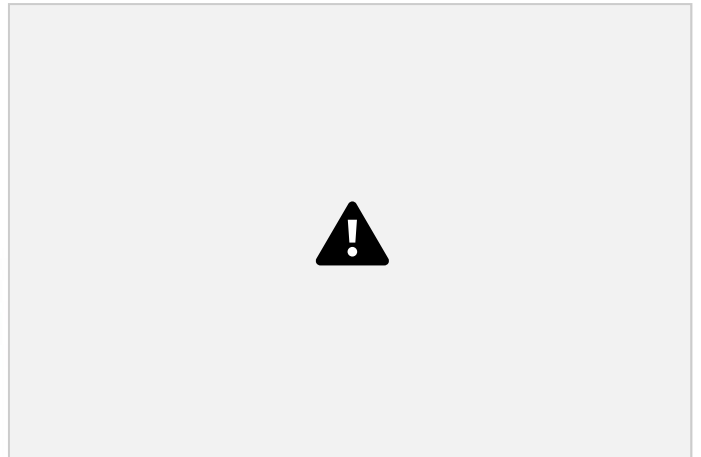
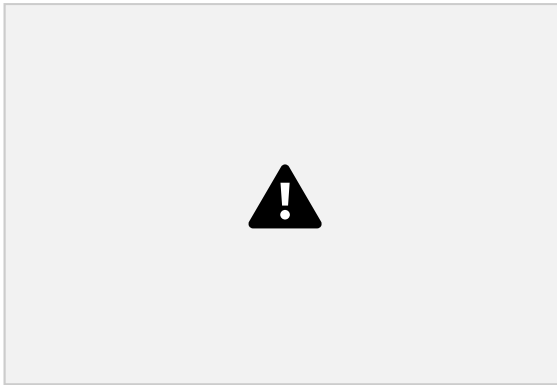
The third group relied on studying the amount of radiation, determining the best angle, and conducting a feasibility study for the system project with a capacity of (3 kilowatts). The clear geographical location of the city of Najaf and the amount of radiation falling on the solar panels was high and could be relied upon to provide alternative energy throughout the year. The economic feasibility also produced positive results to encourage the establishment of such projects in the near future to reduce the burdens of dependence on the national grid.







SDG 7: Affordable and Clean Energy





SDG 7: Affordable and Clean Energy

- Solar Energy Production
- <https://cms.atu.edu.iq/?p=4564>
- <https://atu.edu.iq/?p=15349>
- Wind Energy Production
- https://drive.google.com/file/d/10LVx_pG9BITYjKJFpW9A1jA2IQoibRvO/view?usp=sharing
- In the following image, Al-Furat Al-Awsat Technical University offers its services to Supply, Install, and Maintain of Solar Systems for NGO.





Solar Energy (Al-Furat Al-Awsat Technical University,Iraq)



Wind Energy (Al-Furat Al-Awsat Technical University,Iraq)

- Al-Furat Al-Awsat Technical University provides the local community with different knowledge about the importance of energy efficiency and clean energy by different workshops and courses actually the use it as in the following links.
- <https://youtu.be/recdyfJhmbE>
- <https://atu.edu.iq/?p=19409>
- <https://www.facebook.com/79adnan/videos/1151355189021216/>
- <https://atu.edu.iq/?p=18705>



Workshops about clean energy (Al-Furat Al-Awsat Technical University,Iraq)



-
- Publications about energy for ATU Academic Staffs
 - <https://docs.google.com/spreadsheets/d/1gOYbw2516xG9Hpflx4nCqm9aVZEJ56zO/edit?usp=sharing&oid=115154825454630381457&rtpof=true&sd=true>
 - The university's formations continue to strive to reduce the emission of harmful gases to the environment and their impact on climate change by establishing clean electrical power generation stations to reduce dependence on electricity generators that emit large quantities of harmful gases and noise, in addition to their need for large sums to provide supplies such as (kerosene and Maintenance), relying on sunlight, wind and water, as well as expanding the cultivation of green spaces by planting evergreen trees to improve the environment and as buffers to reduce pollution, fruit trees and planting flowers and shrubs. Thus, the university and all its sites contribute to achieving the thirteenth goal "Climate Action" of the seven sustainable development goals. Ten and increasing construction of environmentally friendly buildings that depend on renewable natural energy sources to obtain electrical energy to fill the need in classrooms, laboratories and administrative buildings at the university, and this achieves the seventh goal, "clean energy at reasonable prices," of the sustainable development goals.
 - The university's first department for renewable energy technologies was opened at the Karbala Technical Institute. It is the first department created for renewable energy at the university level. The department includes a group of scientific laboratories and mechanical and electrical laboratories. The construction of environmentally friendly buildings that rely on renewable natural energy sources to obtain electrical energy has increased to meet the need in classrooms, laboratories and administrative buildings at the university, and this achieves the seventh goal, "clean energy at reasonable prices," of the sustainable development goals.



With the increasing need for electrical energy and in light of the dramatically changing climate, this requires finding ways to provide it at acceptable prices as well as rationalizing its consumption. This is what the university is working on through the instructions and procedures it specifies for the purpose of rationalizing energy consumption and using economical technologies that consume less energy, such as the use of (LED) and light sensors. Exterior and construction of environmentally friendly buildings that take into account the benefit of natural lighting and air, in addition to the keenness of human resources therein to rationalize energy consumption by turning off devices and turning them on when finishing work or leaving the place. (47) courses, workshops and seminars were implemented regarding awareness of rationalizing energy consumption. For university members and students and for members of society in general. The university contributes to meeting part of its needs by establishing clean electrical power generation stations (solar panels) in most of its sites, as (404)A were produced during the year 2022. In addition, all university sites are taking measures and policies that will reduce and rationalize electrical energy consumption, such as using light sensors. In health groups and corridors, using inverter air conditioning devices instead of regular devices to reduce electrical energy consumption, carrying out continuous maintenance of electrical appliances and generators to reduce their fuel consumption and increasing their work efficiency, making shades for generators and maintaining electricity networks on an ongoing basis. Through this, the university is working to achieve the seventh goal (clean energy). At affordable prices) is one of the sustainable development goals set by the United Nations.





-Attending the opening events of the Solar Energy, Information Technology and Banking Conference: <https://atu.edu.iq/?p=20208>



The President of Al-Furat Al-Awsat Technical University attended the proceedings of the conference (Solar Energy, Information Technology and Banking), which was held by the Najaf Governorate Office in cooperation with the Chamber of Commerce in the governorate. The conference was attended by the Governor of Holy Karbala, the Deputy Governor of the Central Bank of Iraq, and delegations representing ministries and local governments in the

Iraqi provinces and banks. It was attended by the Consul General of the Kingdom of Bahrain in Najaf and the Consul of the Islamic Republic of Iran, in addition to companies specializing in solar energy and other investment companies in various fields. The Governor of Najaf, Dr. Engineer Majid Al-Waeli, opened the conference activities, welcoming the participating delegations, stressing that the conference is the first of its kind in Iraq. Al-Zuhairi, in his intervention at the conference, expressed the readiness of the university presidency to adopt the establishment of an advanced center for solar energy and other alternative energies. Pointing out that the university possesses advanced scientific and technical personnel that can deal with this important detail. Al-Zuhairi, in a press statement, stated that the conference held in the Holy Land of Najaf constitutes a qualitative initiative to address the issue of energy at this particular time, especially in light of the challenges facing the country in this sector and the global trends to achieve sustainable development goals, especially with regard to the use of clean energies and reducing the environmental impacts resulting from energy. Use of fossil fuels.

- Al-Furat Al-Awsat Technical University provides the local community with different knowledge about the importance of energy efficiency and clean energy by different workshops and courses actually the use it as in the following links.
- Renewable Energy Workshops : <https://youtu.be/recdyfJhmbE>
- Course on energy subsidies and emission reduction: <https://www.youtube.com/watch?v=kHSeVqfhMFk>



- The university publishes and distributes posters to members of the community and invites them and at all university sites to attend workshops, seminars and courses on rationalizing the use of energy and the use of clean energy, and conducting studies and research for the competent authorities to help them produce and use clean energy and install their own systems
- **Al-Awsat Technical University holds an electronic workshop (webinar) in partnership with Malaysia Perls University, entitled Geopolymer Concrete and Green Building Materials.**

Under the auspices of the President of Al-Furat Al-Awsat Technical University the Department of Scientific Affairs at the Presidency of the University, in cooperation with the Technical Institute of Babylon, held an electronic workshop (webinar) in partnership with the University of Malaysia Perls, entitled (Geopolymer Concrete and Green Building Materials).

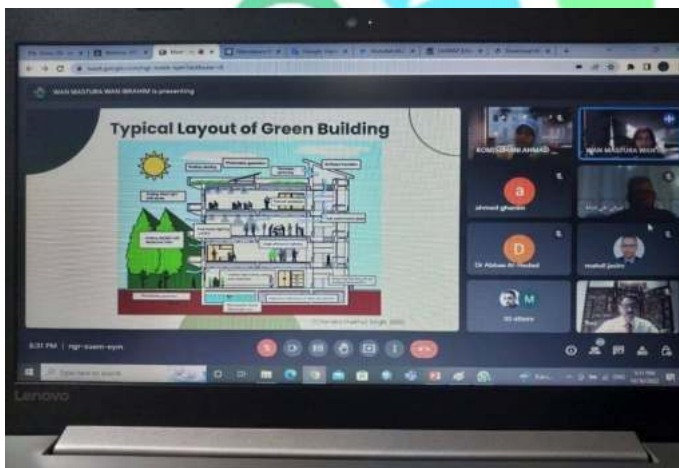
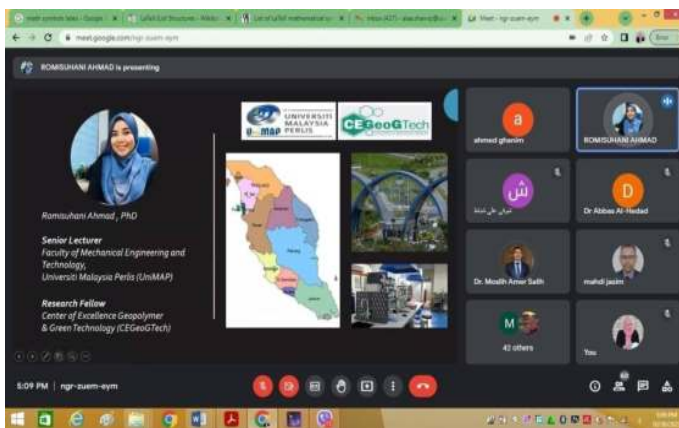
The scientific assistant, Prof. Ahmed Ghanem Waday, delivered a speech in which he emphasized the university's great interest in achieving sustainability and its goals in many areas such as renewable energy, reducing carbon emissions, using solar energy and smart buildings, and called for more coordination and cooperation with international universities.

We draw your attention to the fact that (details of the workshop and the lecturers are in the attached file). After completing the two lectures, the discussion was opened and questions were asked, which were answered by the two lecturers.

The workshop was moderated by Assistant Professor Dr. Musleh Amer Salih from the Babylon Technical Institute.



SDG 7: Affordable and Clean Energy





SDG 8: Decent Work and Economic Growth

DECENT WORK
ECONOMIC GROWTH





Al-Furat Al-Awsat Technical University Rehabilitation and Employment Centre



To Define the General Goal of Rehabilitation and Employment Centre

The division aims to help students of the final stages and graduates of Al-Furat Al-Awsat Technical University from various specializations to develop and build their personal, scientific and applied practical capabilities and life skills in a way that is consistent with the labor market, which gives them the opportunity to compete for jobs after their graduation in both the government and private sectors locally or Internationally and work to spread the culture of the importance of the private sector and reduce the burden on the public sector.

Objectives of the Rehabilitation, Employment and Follow-up Division:

- Guiding and advising students and graduates on the importance of their various scientific specializations in which they have been accepted.



- Preparing scientific studies on school curricula that contribute to their development to ensure their suitability for the labor market.
- Communicate with the scientific and cognitive development taking place in the world.
- Introducing participants to the importance of the Rehabilitation, Employment and Follow-up Division.
- Introducing the participant to the extent and strength of the trainee student's influence on the institution's reputation and the extent of its production
- Opening communication channels with government institutions and the private sector and building bridges of communication between graduates of various specializations and the labor market.
- Introducing the participant to the extent and strength of the trainee student's influence on the institution's reputation and the extent of its production
- Preparing and implementing training programs and workshops for students and graduates of Al-Furat Al-Awsat Technical University in a manner consistent with the labor market
- Communicate with the scientific departments and units within Al-Furat Al-Awsat Technical University and obtain a working paper that includes the labor market for each specialty within the public and private sectors.
- Following up on students after they are appointed to state institutions and the private sector and evaluating the extent of benefit from their specializations

The Strategy of the Rehabilitation, Employment and Follow-up Division:

- The unit's strategy is to prepare specialized studies that contribute to identifying the strengths and weaknesses of our university graduates and their educational path, identifying their areas of opportunity for the labor market, and monitoring current and future threats.
- The Rehabilitation and Employment Unit also contributes to preparing accurate studies based on scientific foundations on student and graduate databases and the unemployment rate in them, understanding the types of operational institutions and the differences between them, and knowing the helpful elements of how to advance the wheel of success and progress for the various operational institutions.



Login to my job platform: https://atu.edu.iq/?page_id=21470



The ((My Job)) platform is a permanent electronic job fair and forum for employers with graduates of our university, where each of them searches transparently and quickly for what he wants in terms of job opportunities and required jobs, and communication between the two parties is direct and effective.: <https://forms.atu.edu.iq/job/home.php>



Career Rehabilitation Centers for University Campuses:

- Al-Furat Al-Awsat Technical University/ Kufa (Main Campus):
https://atu.edu.iq/?page_id=4058
- Technical College of Health and Medical / Kufa:
https://chm.atu.edu.iq/?page_id=1930
- College of Administration and Management / Kufa
- Kufa Technical Institute / Kufa:
<https://iku.atu.edu.iq/?p=2531>
- Technical College of Engineering / Najaf:
https://cnj.atu.edu.iq/?page_id=3533
- Babylon Technical Institute / Babylon:
https://iba.atu.edu.iq/?page_id=6410
- Al- Mussiab Technical College/ Al-Mussiab:
https://cms.atu.edu.iq/?page_id=2874
- Al-Mussiab Technical Institute / Al-Mussiab:
https://ims.atu.edu.iq/?page_id=7019
- Karbala Technical Institute/ Karbala:
https://ikr.atu.edu.iq/?page_id=12400
- Al-Diwaniyah Technical Institute/ Al-Diwaniyah:
https://idi.atu.edu.iq/?page_id=1605
- Al-Samawa Technical Institute / Samawa:
https://isa.atu.edu.iq/?page_id=1387



“Riyada” initiative launched by the Prime Minister

On Monday, 11/13/2023, Al-Furat Al-Awsat Technical University will hold activities at Al-Furat Al-Awsat Technical University on the occasion of International Entrepreneurship Week. On this occasion, the graduates participated in the courses offered in order to qualify them to work in the private sector:

Monday 11/13: A panel discussion on entrepreneurial projects and their applications

Tuesday 11/14: A workshop on the “Riyada” project launched by the Prime Minister

Sunday 11/19: Exhibition of pioneering projects for university students and graduates



- Establishing a leadership training of trainers (TOT) course for officials of rehabilitation and employment units in university campuses





- **Announcement of employing graduates:** <https://atu.edu.iq/?p=19874>
AL-Furat AL-Awsat Technical University holds ((The First Job Fair)) with the participation of dozens of private sector companies and institutions: <https://atu.edu.iq/?p=19966>



The first job fair was held in the courtyard of the university presidency. The opening of the exhibition was attended by the representative of His Excellency the Minister, Professor Dr. Yasser Laftah Al-Ugaili, President of the University of Kufa, and a number of university presidents and their assistants, in addition to the Secretary of the Grand Mosque of Kufa, Mr. Muhammad Al-Musawi, the President of the Najaf Chamber of Commerce, Engineer Haider Al-Adhari, the President of the Najaf Chamber of Industry, Mr. Amer Al-Haddad, and representatives of the supporting and participating parties, and the two assistants. The President of the University, ladies and gentlemen, deans of colleges and institutes, a number of university employees, and a large number of graduates. The celebration began with the recitation of verses from the Holy Qur'an, then Surah Al-Fatiha was read to the souls of the Iraqi martyrs, after which the Iraqi national anthem was played. In his welcoming speech, the University President referred to the university's efforts in qualifying graduates, holding training courses and workshops, and preparing them to engage in the labor market. He also referred to the role of the Council. The consultant for the field of work at the university and supporting partners in supporting and assisting the establishment of the exhibition and communicating with private sector





institutions.

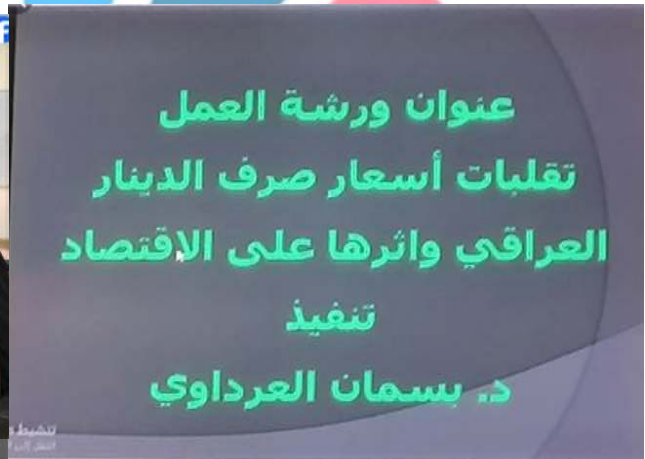
He also thanked the supporting bodies, the preparatory committee, and everyone who contributed to holding the exhibition. Meanwhile, the representative of His Excellency the Minister, Professor Dr. Yasser Lafta Al-Ugaili, President of the University of Kufa, delivered a speech in which he emphasized the efforts of the Ministry and Iraqi universities to provide job opportunities for graduates and the obstacles they face in order to achieve this goal and reduce the demand for appointment in government departments. This was followed by the presentation of a short film about the exhibition prepared by the Department of Media and Public Relations, after which Mr. Ali Abdul Hussein Al-Zalimi, Director of the Scientific Affairs Department at the university, delivered a speech by the preparatory committee in which he pointed out the participation of thirty companies in the exhibition and explained the mechanism for graduates to learn about the job opportunities offered and how to submit their CVs and conduct interviews. Personal with company representatives. While the President of the University granted letters of thanks and appreciation to the supporting bodies, which are the Kufa Mosque Secretariat, the Najaf Chamber of Industry, the Najaf Chamber of Commerce, the Al-Khayal Center for Businessmen, Al-Etijah Travel and Tourism Company, and the Horizon Travel and Tourism Company.

Then the representative of His Excellency the Minister cut the ribbon opening the exhibition and toured the pavilions of the participating companies and reviewed the job opportunities offered. More than 600 graduates who visited the exhibition presented their experience certificates, and a number of employment interviews were conducted inside the halls of the university presidency. The exhibition received the attention of the media, satellite channels, news agencies and the press. At the conclusion of the exhibition, Professor Dr. Ahmed Ghanem Waday, Assistant President of the University for Scientific Affairs, distributed certificates of participation to the participating private sector institutions, who expressed their willingness for more cooperation in the future. They also praised the competence of the university's graduates and the willingness of their companies to employ a large number of them who attended and presented during the exhibition

Promoting sustainable, comprehensive and sustainable economic growth, full and productive employment and decent work for all. The goals include promoting growth except steady economic; Improving the efficiency of resource use in production and consumption; full and productive employment, and the provision of decent work for all; Eliminate forced labour, child labor and trafficking; protecting workers' rights, including the rights of migrant workers; Increasing access to financial services. Social sustainability aims to support small enterprises and create jobs for the poor majority in the informal sector. Environmental sustainability aims to ensure the sustainable use of natural resources necessary for economic growth in the public and private sectors. To achieve this goal, the university implemented the following activities:



The university contributes to providing the sectors of the economy with technical human resources in administrative, medical and technological specializations to obtain decent work, as well as establishing consulting offices to provide consultations in various specializations at the university to help the public and private sectors to contribute to the growth of the economy. The university's formations hold workshops, seminars and courses for its students and members and for all segments of society. Especially graduates through qualification and employment courses to obtain job opportunities in the public and private sectors



The university holds courses for foresters (4) courses for the year 2023, and the university with all its formations continues to hold workshops and seminars to provide segments of society with soft skills to benefit from in opening small projects, and to hold the third job fair and entrepreneurship fairs.



The university works to hone the talents of its students in various scientific disciplines by training them in private sector institutions



The number of workshops and seminars on the economy and decent work reached (79) activities and research, with (7) research papers.





SDG 9: Industry, Innovation and Infrastructure





Ten (10) new projects entered active service for students, all of which were opened on May 5 of the current year 2023.



The President of Al-Furat Al-Awsat Technical University announced the entry of ten (10) modern projects into active service, all of which were opened in the fifth month of May of the current year 2023, and in a number of university formations, which enhances the level of education and the university's infrastructure.

These projects include a variety of modern facilities and equipment that meet the needs of students and enhance the educational process at the Diwaniyah Technical Institute, the Kufa Technical Institute, and the Babylon Technical Institute. Among these projects are:



At the Diwaniyah Technical Institute:

1. The Student Club, which features a spacious building area of 800 square meters and can accommodate 400 male and female students. The club's architectural design is characterized by modernity and fine details, and it is equipped with high-quality furniture.

2. The auditorium complex, which includes two model auditoriums and an administrative office. Each of them can accommodate 180 male and female students, and 360 male and female students can be accommodated at the same time. The halls are equipped with advanced educational means such as a smart educational whiteboard and high-quality sound systems.

3. A new gate for students to enter, two information rooms, and rehabilitating the corridors and approaches to the gate, to improve the students' experience in arriving at the institute.

4. Adding new green spaces and equipped gardens with a total area of 1,600 square meters.

5. An integrated health and service complex in which the rationalization of electrical energy consumption was taken into account in terms of smart lighting and the rationalization of water use.

At the Kufa Technical Institute:

6. A model building for the Information Technology Department, which includes four modern computer laboratories and a capacity of 100 male and female students. The laboratories are characterized by high-quality equipment, including computers and furniture, that meet the aspirations of high-level training. In addition, the building is equipped with an advanced studio for recording electronic lectures using Light Board technology. A number of administrative offices and service annexes were also provided to meet the needs of the institute's employees.

7. A central conference hall that can accommodate 240 people. The hall is equipped with advanced sound systems, smart display screens, and laser "data show" technology, and the best types of furniture have been provided to make it a model hall that accommodates conferences and scientific and cultural events.

8. The continuing education hall designated for holding training courses is equipped with an advanced smart screen and modern sound systems. This hall allows training courses to be presented in an interactive and innovative way.

At the Babylon Technical Institute:

9. The building includes listed classrooms and model laboratories. The building consists of two floors with a total area of approximately 2,000 square meters. The building has a capacity of up to 840 male and female students at the same time. The ground floor includes four typical auditoriums, each hall can accommodate 110 male and female students. On the



first floor, there are four typical laboratories with a capacity of up to 100 male and female students in each laboratory.

10. Adding green spaces and equipping the building's courtyards with an area estimated at 1,200 square metres. These green spaces have been rehabilitated to be a suitable environment for rest.

The opening of these integrated projects reflects the commitment of Al-Furat Al-Awsat Technical University to the construction and reconstruction campaign launched by the President of the University in June of 2019, which resulted in the opening of many important projects, the goal of which was to achieve a model university environment for solid, high-level education. At the same time, these projects embody the shift towards more sustainable education and enhance awareness of the importance of developing infrastructure because of its clear impact on the educational process.



- **Opening of the Scientific building:** <https://atu.edu.iq/?p=25942>

The project (the Scientific building) includes the establishment of three model classrooms with a total capacity of approximately (500) five hundred students, as well as a hall for continuing education courses, an electronic library, scientific and administrative offices, and other service facilities that have been equipped with modern requirements of equipment, furniture, and other equipment. The best builders





ATU
SDGs

- Opening of the second edition of the Software Scientific Exhibition for the projects of the initial studies students of the Information Technology Department.





- Opening of the engineering laboratory in Babylon for the Office of Scientific and Consulting Services at the University Presidency

The importance of the work of technological technical cadres is no less than the role of medical cadres in serving society, whether they are intermediate graduates of technological institutes of technology or primary graduates of technical engineering colleges in their various departments (the departments of surveying, civil, electronics, mechanics, machines, equipment, medical devices, the manufacture of limbs and supports, renewable energy, and water resources technologies). These specializations contribute to filling the need of the various sectors of the country's economy to contribute to achieving the sustainable development goals of the ninth goal, "Industry, Innovation, and Infrastructure," the eleventh goal, "Sustainable Cities and Local Communities," and the seventh goal, "Clean and affordable energy." Students are accepted into these departments according to the student's average and desire, in addition to the acceptance of (industry) graduates of vocational preparatory schools. This is an achievement of the fifth goal of the sustainable development goals, "gender equality." Those who excel in it obtain privileges and rights regardless of gender. This is an achievement of the tenth goal, which is "reducing inequality".

- Al-Furat Al-Awsat Technical University launches its automated response system on the Telegram platform as part of its digital transformation programs: <https://atu.edu.iq/?p=20072>

Under the guidance of the President of the University the staff of the Electronic Calculator Center at the University Presidency launched the automated response system on the Telegram platform. Al-Zuhairi indicated that this system is one of the university's projects towards digital transformation and represents an electronic window for communication with the community, through which access can be simplified. To the services provided by the university in real time. On the other hand, Dr. Mustafa Kazem Taqi, Director of the Electronic Calculator Center at the University Presidency and supervisor of the system's implementation, stated that the system works on the Telegram platform and provides a range of services, including registration for teaching suitability tests, registration for Arabic, English, and computer proficiency tests for graduate students, and many other services. For university employees and students.



- **The President of Al-Furat Al-Awsat Technical University opens the construction laboratory in the Office of Scientific and Consulting Services: <https://atu.edu.iq/?p=20015>**



The President of Al-Furat Al-Awsat Technical University opened the construction laboratory of the university's scientific and advisory services office. It should be noted that the laboratory is located in the center of the city near the departments of the Al-Najaf Governorate in the Al-Ghadir neighborhood, with an area of 600 square meters. The laboratory provides services and laboratory tests for construction materials (physical and chemical), non-destructive tests, construction evaluation reports, all asphalt tests, and soil investigations, as well as technical and engineering consultations. And electrical examinations, such as cables, transformers, and other mechanical examinations for elevators, and safety reports. While the honorable President of the University was accompanied by the Office Head, Dr. Qahtan Al-Fatlawi, and the Director and members of the Office of Scientific and Consulting Services at the University Presidency. They were received by the consulting engineer, Dr. Zuhair Abdel Hajim, and the engineers working in the laboratory.

Building resilient infrastructure, promoting inclusive and sustainable industrialization and encouraging innovation

Goals include affordable and equitable access to quality infrastructure; Labor-generated industrialization; Access to financial services and markets; Innovation and technology transfer, and increased access to information and communications technology. Economic sustainability aims to increase economic efficiency and growth in order to advance the reality of sustainable industry. To achieve this goal, the university implemented the following activities:

The university's formations seek to keep pace with the great scientific and cognitive technological revolution that the world is witnessing at the present time, represented by the tremendous increase in electronic innovations in all fields, and to provide the opportunity for graduates, students and specialists



to acquire important information that qualifies them to enter the labor market. The university's evaluation of workshops and seminars for its students and graduates, as the number reached (38) activities, including a workshop on compound rubber materials and how to use them in manufacturing cushions for cement factory vibrators, and on the maintenance and installation of cooling devices and natural polymers in food packaging and natural fibers and their role in increasing mechanical properties, cooling systems and the weather conditions of the city of Karbala. Creating shadows as a job Voluntary contribution from students for the purpose of training postgraduate students in primary and postgraduate studies.



A total of 18 research papers on industry and innovation were published during the year 2023.



- ATU
SDGs
- ❖ Within the framework of the directives of the Presidency of Al-Furat Al-Awsat Technical University for digital transformation in all fields, the construction of smart gates has been completed. The new gate, which has an area of 130 square meters, is distinguished by containing two information lounges for male and female students, with 12 electronic gates that open using the university electronic card, with what distinguishes it from the possibility It was used as a VISA card for electronic payment in all financial transactions inside and outside Iraq. The area of the new student entrance was (30) square metres, and the inquiries area was (13*10) with the new university fence (garage) with an area of 150 square metres. With the construction of a main street whose length was 115m inside the university and the width was 6m and outside. The university is 150 m long



❖ And 13 meters wide.

- ❖ Painting, painting and rehabilitating the floors of classrooms No. (1) and (3) and coating them with epoxy and chemical treatment at an amount of 180 square meters, as well as painting at an amount of 600 square meters.
- ❖ Qualifying health groups for workshops affiliated with the Power Mechanics Department
- ❖ Painting and rehabilitating the floor and walls of the Electrical Technology Department, at an area of 400 square meters² And also to spray the facade by 100 m² He also set a dry value of 100 m² Dyeing and qualifying
- ❖ The main hall hall has been built with an area of 800 m² (under construction)
- ❖ The construction of the Student Affairs Building + the Examination Committee was carried out at a size of (15*20) m²



- ❖ Assistant Dean's Office Building (under construction) (10*15) m²
- ❖ Scientific Division Building (under construction) (15*7) m²
- ❖ Within the framework of the renaissance of construction and reconstruction witnessed by the university and its endeavor to upgrade the educational and service infrastructure, the central library building was completed. The central library building project, which has an area of one thousand seven hundred square meters and two floors, includes a large reading hall with a total capacity of approximately (500) five hundred students, as well as a hall for courses. An electronic library, a special wing for books and periodicals, scientific and administrative offices, and other service facilities, which were equipped with modern requirements, including devices, furniture, and other equipment, from the best facilities.



2- - Within the framework of the great interests given by the Presidency of Al-Furat Al-Awsat Technical University and the Deanship of the Technical Institute / Kufa to organize scientific and cultural activities and events, and under the slogan “The Library is the interface of the scientific and cultural edifice,” the Deanship of the Institute organized the Library Cultural Festival, the activities of which were opened by the Dean, Professor Dr. Fadel Sami in the Central Library Hall in the presence of the Assistant Dean for Administrative and Financial Affairs and a number of department heads and members of the Institute.





- **Al-Furat Al-Awsat Technical University launches an electronic leave inquiry service for its members on the Telegram platform:** <https://atu.edu.iq/?p=21712>

Within its digital transformation program that it launched earlier. Under the guidance of the President of Al-Furat Al-Awsat Technical University the staff of the Electronic Calculator Center at the University Presidency launched an electronic leave inquiry service for its members on the Telegram platform. Al-Zuhairi indicated that this service is part of initiatives The university is moving



toward digital transformation, in line with technological development in the world, to save time and effort through an integrated program through which it is possible to simplify obtaining vacations available to employees of all types. He stressed that the university is continuing to achieve more initiatives within digital transformation programs through technical and electronic solutions. On the other hand, Dr. Mustafa Kazem Taqi, Director of the Electronic Calculator Center at the University Presidency and supervisor of the program's implementation, stated that this service includes submitting vacations electronically via phone or calculator, where the employee fills out the vacation form, writes the personal data, and determines the vacation days, and then it is sent to the concerned authorities without The need for a manual signature or stamp. Through the program, the employee can identify the leave balance and obtain approval or not through electronic notifications.

- **Mr. Dean of the Administrative Technical College / Kufa, Al-Furat Al-Awsat Technical University raises the curtain on the college's QR code signboard:** <https://atu.edu.iq/?p=20901>



Mr. Zahah, Dean of the Technical and Administrative College / Kufa, Professor Dr. Fadel Abdul Abbas Al-Abidi

The curtain features an artistic painting



representing an image of the QR barcode system. It was designed at the initiative of a group of students from the Information Technology Department/fourth stage. It includes information about the university, the college, and its scientific departments, as the students participated in the design.

-The university is the first and appropriate place to obtain consultations in all fields of work according to scientific foundations, studies and research of its professors reflected on the integrity of the decisions taken according to them except for the public sector or the private sector and the state departments depend on the consultations of universities to implement their projects in all ministries according to contracts concluded with the university in all its sites in return for wages determined according to the instructions in force and be relative to the work team that provides consultation, and the advisory office was opened in the presidency of the university .

-All sites in the university seek to expand by providing their consultations to the public and private sectors by announcing their advisory services in all scientific fields, and the revenues of the consulting offices are one of the types of revenue sources at the university that help them cover some of their expenses and implement the projects they need. In doing so, the university helps to support the community with the expertise of its consulting professors and technical cadres to help with industry, innovation, and infrastructure.





SDG 10: Reduced Inequalities





The university's contribution to achieving this goal:

- Assigning positions for both genders of university employees according to conditions and regulations Admission to all university departments is based on the average and the student's desire in light of the Ministry of Education's plan without reducing gender inequality.
- Admission to evening studies is based on the average and the student's desire, without distinction between males and females
- When either gender obtains the highest averages, a percentage of 10% is calculated for the top students in each department to enjoy the privileges of completing their studies or central appointment in accordance with the applicable laws.
- Honoring distinguished members of both genders with the same support and privileges

- Al-Furat Al-Awsat Technical University organizes a dialogue symposium entitled Academic Women: Experiences of Giving and Leadership.

In order to achieve the goals of the national strategic plan of the Department of Women's Empowerment in the Ministry of Higher Education and Scientific Research, and under the patronage of the President of Al-Furat Al-Awsat Technical University, Professor Dr. Hassan Latif Kadhim Al-Zubaidi, and with the approaching International Women's Day, the Women's Empowerment Division at the University Presidency, in cooperation with the Departments of Student Activities and Media and Communication, organized The government held a dialogue symposium entitled (Academic Women: Experiences of Giving and Leadership). Al-Zubaidi referred to the role of Iraqi women in the sound construction of society in his speech that he delivered at the opening of the dialogue symposium in the presence of the Assistant President of the University for Administrative Affairs, the deans of the Najaf and Kufa formations, and a number of guests and department directors. And members and officials of women's empowerment units in the university's formations. Pointing out that International Women's Day is not just an opportunity to celebrate, but rather an opportunity to reflect on the paths of success and challenges that women have faced throughout the ages, as well as to reflect on what women have provided in building



SDG 10: Reduced Inequalities

and advancing our societies. Al-Zubaidi praised the efforts of women who They succeeded in achieving excellence in various fields, whether in the field of work, creativity, entrepreneurship, or in community service, pointing out that their contributions are a source of inspiration for new generations and an enhancement of the true understanding of women's capabilities. He continued: Women in our Iraq still face great challenges, perhaps the most important of which are poverty and deprivation, as they About 20% of the population still suffers from material poverty and deprivation, and women bear the greatest burden in securing livelihoods for their families and facing the lack of public services and goods. Women in Iraq still suffer from limited opportunities to reach leadership positions, education and work, and the unemployment rate has reached Its counterpart is weak among men, and our institutions are still unfriendly to them on the one hand, and even hostile to women of determination, which threatens their positive role in society.

Al-Zubaidi stressed support for women's rights and empowerment, whether in the fields of work, education or politics, as well as that women constitute a vital force in building a better and more sustainable future. He called for a commitment to providing equal opportunities and a fair environment for women throughout the year, and to make Women's Day an opportunity to honor and appreciate women, and an opportunity to consider the challenges they still face and work together to achieve equality and justice. He praised the role of Iraqi women who have provided much in our contemporary history, including the recent decades in which It was characterized by challenges and difficulties in various forms. At the end of his speech, Al-Zubaidi pointed out that a good society is the product of a good woman, who is the whole of society.

The President of Al-Zahra University (peace be upon him), Professor Dr. Zainab Al-Sultani, the Assistant President of Jaber Ibn Hayyan Medical University for Scientific and Administrative Affairs, Assistant Professor Dr. Hanan Dikan, the Dean of the College of Education for Pure Sciences at the University of Karbala, Professor Dr. Hamida Aidan Salman, and the Dean of the College of Health Technologies, participated in the dialogue symposium. And Kufa Medical Professor Dr. Angham Jassim Al-Ramahi. The symposium, which was moderated by the official of the Women's Empowerment Division, Ms. Ikhlas Razzaq Naham, discussed the role of women in society and in building the state and the impact of social heritage and family education on preparing women for leadership. It also addressed women's work in the Islamic perspective and ways of involving them in decision-making. The symposium emphasized reference to the teachings of the Islamic religion and principles. Islamic law is the only way to support women, treat them fairly, and give them their rights, and give them a great status by entrusting them with the task of raising generations, and making them coworkers with men in building society. The symposium witnessed dialogues and discussions that concluded with several recommendations, the most important of which was: that universities have a major role in influencing girls to



SDG 10: Reduced Inequalities

learn. Gaining leadership skills and the need for the media to focus on success stories of positive role models of women in society. For her part, Al-Sultani stressed: The importance of balance and that women, even if they are leaders, do not forget their basic role in family education and society. - For the purpose of encouraging innovation and creativity: Adding another promotion according to powers, granted according to certain conditions in every governmental or private institution to promote female employees who are creative at work. In addition to the well-known legal promotion granted under the law. - To enhance women's academic leadership: seats in graduate studies are allocated to distinguished female employees that are outside the plan. - With regard to economic incentive: the married female employee is granted a plot of land regardless of the husband's benefit, and the instructions for granting land to the female employee are amended, from the standpoint of The justice of Islamic law, which made the wife's financial liability independent of her husband's liability. The symposium concluded by honoring the women participating in the symposium and the distinguished members of the university presidency and its formations.





SDG 10: Reduced Inequalities

Reducing inequality within and between countries

Objectives include promoting growth rates above the bottom percentile; promoting social, economic and political integration; reducing inequalities in opportunities and outcomes; Ensuring social protection for all; Ensuring participation in economic decision-making; Facilitating migration and reducing transaction costs related to migrant remittances.

Women at the university occupy a distinct place in all humanitarian, scientific and professional aspects. They practice all activities without discrimination on the basis of gender and are therefore equal to the other gender in terms of rights and duties. The Women's Affairs Division organizes various activities on national and religious occasions by holding workshops, seminars and courses to empower women and girls as students. The university, its graduates, and the women of society are the ones who teach us soft skills to benefit from them in the labor market or to educate them about the issues and problems prevalent in society, as the number of these activities reached (39) workshops, seminars, and courses, including drawing exhibitions, book fairs, and charity markets (bazaars) to sell and display students' handicrafts, as well as participation. B (5) By attending conferences related to women's issues.



A course to learn soft skills celebrating Women's Day



-The President of Al-Furat Al-Awsat Technical University sponsors the ceremony for the graduation of a batch of the program to qualify those seeking a job opportunity within the (Capabilities) project...to enhance sustainable livelihoods:
<https://atu.edu.iq/?p=20933>



To enhance sustainable livelihoods and qualify a number of young people seeking job opportunities in Diwaniyah Governorate. The Office of Scientific and Consulting Services at the Presidency of Al-Furat Al-Awsat Technical University organized a number of training courses for young graduates and those looking for a job opportunity at the Diwaniyah Technical Institute in cooperation with the Al-Khair Humanitarian Organization and with support from the German Foundation for

International Cooperation (GIZ), and the project to develop the private sector and enhance employment in Iraq. This The President of the University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, attended the closing ceremony of the training program, distributing graduation certificates, and honoring the outstanding students. Al-Zuhairi indicated in his speech at the honoring ceremony that the university has adopted all initiatives that would serve all segments of society, state institutions, and the private and mixed sectors, indicating that the university is capable of implementing promising programs that meet the needs of the labor market through its formations spread in the governorates of the Middle Euphrates.. as well. Al-Zuhairi extended his thanks and appreciation to all those responsible for this activity. On the other hand, the Director of the Civil Society Organizations Department, Mr. Iyad Al-Mayali, indicated in his speech that the organizations' administration emphasizes its approach to creating job opportunities for young people, relying on the experiences they gained from the above-mentioned programs, to place them in the local market. The Director of the Scientific and Consulting Services Office, Professor Dr. Qahtan Adnan Al-Fatlawi, stated that the (Qudrat) project included four courses for the month of March, which included (a course for installing and maintaining refrigeration and air conditioning devices - a course for inspecting cars and diagnosing faults in electronic devices - a course on the unified accounting system - a sales and marketing course). The number of trainees reached 126 trainees. The program coordinator, Mr. Ali Hussein, also indicated that the course curriculum includes practical field lectures that were implemented in the institute's workshops and at the hands of competent trainers with long experience, which accelerated the process of acquiring the required skills and experience for the trainees. It is reported that the celebration was attended by Gentlemen, assistants to the president of the university, deans of the Najaf Al-Ashraf and Al-Rumaitha formations, the director of the non-governmental organizations office in Diwaniyah Governorate, the staff of the Al-Khair Humanitarian Organization, and a



large audience of the Institute's employees and students. At the conclusion of the celebration, certificates were distributed and the participants in the training program were honored.

- **Al-Furat Al-Awsat Technical University organizes the University Festival of Applied Arts for Arabic Calligraphy, Photography and Sculpture:** <https://atu.edu.iq/?p=20455>



Under the patronage of the President of Al-Furat Al-Awsat Technical University the Student Activities Department organized the University Festival of Applied Arts for Arabic Calligraphy, Photography and Sculpture (male and female students) hosted by the Musayyib Technical Institute and the Musayyib Technical College. The festival began with the recitation of any of the Holy Quran, followed by the reading of Surat Al-Fatihah for the souls of the martyrs and the playing of the Iraqi national anthem, while the Dean of the Institute, Professor Dr. Jabbar Abbas Jaber, Dean of the Institute, delivered a welcome speech to the gentlemen attending, Dr. Ali Al-Zubaidi, Dean of the Al-Musayyib Technical College and Director of the Teaching Student Activities Department. Naseer Ahmed and the officials of the Student Activities Department from various university formations, pointing out the importance of festivals and exhibitions for painting and sculpture because of their clear impact on developing and developing students' talents. The Director of the Teaching Student Activities Department, Naseer Ahmed, stated in his speech during the opening ceremony that the festival is part of the department's annual curriculum for the second semester and with wide participation. From the university's formations, including various activities, including displaying artistic works from the talents of our university's students, conveying to the attendees the greetings and blessings of the honorable President of the University. Meanwhile, a group of students participated in displaying a bazaar of handicrafts and a book fair. It is noteworthy that the ceremony was attended by a large number of associates, students, and all members of the Student Activities Division. In the university formations. At the conclusion of the festival, shields and certificates of participation were distributed to the affiliates and students participating in the festival.



- **Launching the Excellence Day activities at Al-Furat Al-Awsat Technical University: <https://atu.edu.iq/?p=22438>**



Under the generous patronage of the President of the Al-Furat Al-Awsat Technical University and as an embodiment of the core values adopted by the Al-Furat Al-Awsat Technical University, including the encouragement of creativity, innovation and excellence, the Excellence Day in an annual tradition that it has adopted. The university to honor distinguished members of its formations. The celebration was attended by members of the University Council, including assistants and deans, as well as department directors at the university presidency. The celebration included honoring more than four hundred and fifty members of the teaching staff, technicians, administrators, contract employees 315, and service employees with certificates of appreciation and cash rewards, in which a number of criteria were adopted in determining excellence by the deanships of formations. The ceremony began with a recitation of any of the Holy Qur'an, then the President of the University gave a speech indicating In which he referred to the achievements that have been achieved at the university recently, despite the challenges and difficulties, foremost of which is the lack of a budget, stressing at the same time that the process of giving, building and reconstruction will not and has not stopped, regardless of the circumstances, with the enthusiasm of the generous and honorable members and students, hoping at the same time that the university will record a promising start at the beginning of the year. Next academic year 2022-2023. At the end of his speech, Al-Zuhairi extended his thanks and appreciation to all the university's employees, including teachers, technicians, administrators, and scientific and administrative leaders, praying for them to succeed in achieving the university's goals and aspirations.



SDG 10: Reduced Inequalities

- There are no laws or regulations that limit gender inequality in access to education and employment opportunities for admission to university jurisdictions.



Holding a job exhibition for graduates from the community in cooperation with the Municipality of Kufa Mosque, the Najaf Chamber of Industry, the Najaf Chamber of Commerce, the Imagination Center for Businessmen, the Direction Company for Travel and Tourism and the Horizon Road Company for Travel and Tourism.

More than 600 graduates (male & Female) who visited the exhibition presented their certificates of experience and a number of job interviews were conducted inside the university halls.

- My job platform for the registration of graduates and obtaining jobs according to the specialization has been prepared by the university to provide job opportunities for graduates. Link of the Platform : https://atu.edu.iq/?page_id=21470



SDG 10: Reduced Inequalities

- ATU University also announced overcome the obstacles that prevent students or employees from minority groups from moving from other Iraqi regions to the regions of ATU's campuses and getting enrolled or employed by ATU University

The image shows an official statement from the Ministry of Higher Education and Scientific Research, Republic of Iraq, issued by the Al-Furat Al-Awsat Technical University. The document is titled "امر جامعي" (University Order) and is dated 14/10/2018. It addresses the issue of discrimination in the workplace, specifically mentioning the 14th article of the Iraqi Constitution of 2005, which states that all Iraqis are equal in rights and duties, and that there is no discrimination on the basis of race, gender, or origin. The statement urges the university to publish posters that promote anti-discrimination in the workplace in all campuses, following the Fourth Meeting of the Al-Furat Al-Awsat Technical University ATU - Council. The document is signed by the Vice-Chancellor, Dr. Naji Abd Al-Muhsen Al-Muhsen, and includes a list of recipients for the statement.

Republic of Iraq
Ministry of Higher Education & Scientific Research
Al-Furat Al-Awsat Technical University

بسمه تعالى
جمهورية العراق
وزارة التعليم العالي والبحث العلمي
جامعة الفرات الاوسط التقنية

العدد / ١٤
تاريخ / ١٤/١٠/٢٠١٨

امر جامعي

استناداً للصلاحيات المخولة لنا نقرر:-
- العمل بالمادة ١٤ من دستور العراق لسنة ٢٠٠٥ والتي تنص (العراقيون متساوون امام القانون دون تمييز بسبب الجنس او العرق او القومية او الاصل او اللون او الدين او المذهب او المعتقد او الرأي او الوضع الاقتصادي والاجتماعي) فعلى عمادات الكليات والمعاهد الالتزام بما ورد اعلاه.

مع التقدير
أ.د. نجاد عبد المحسن الموسوي
مساعد رئيس الجامعة للشؤون الادارية والمالية
٢٠١٨/١٠/١٤

نسخة منه الى:
- مكتب السيد رئيس الجامعة / المعتمد / المستشار بالامر . مع متن القرار
- السيد المساعد الإداري المعتمد / المستشار بالامر . مع القرار
- قسم الشؤون القانونية / مع الوثائق
- قسم الرقابة والتدقيق الداخلي / الامر . مع القرار
- اصلا

جمهورية العراق - الخندق الفراتي - كوفة
www.afu.edu.iq - قسم التسجيل - atuf@afu.edu.iq

ATU University official statement urges publishing posters that promote anti-discrimination in the workplace in all campuses, issued following the Fourth Meeting of Al-Furat Al-Awsat Technical University ATU - Council (Al-Furat Al-Awsat Technical University, Iraq)



SDG 11: Sustainable Cities and Communities





Al-Furat Al-Awsat Technical University organized a large campaign to plant trees in the university's gardens on the occasion of National Planting Day and to improve the university environment.

The campaign included planting palm trees, acacia trees, roses, and ornamental trees, in addition to a number of other seedlings, to which university members and students contributed to achieve sustainable development goals and within the activities of the National Plantation Day. It is noteworthy that the campaign lasted for several days in which all scientific departments participated.





Ten (10) new projects entered active service for students, all of which were opened on May 5 of the current year 2023.



The President of Al-Furat Al-Awsat Technical University announced the entry of ten (10) modern projects into active service, all of which were opened in the fifth month of May of the



current year 2023, and in a number of university formations, which enhances the level of education and the university's infrastructure.

These projects include a variety of modern facilities and equipment that meet the needs of students and enhance the educational process at the Diwaniyah Technical Institute, the Kufa Technical Institute, and the Babylon Technical Institute. Among these projects are:

At the Diwaniyah Technical Institute:

1. The Student Club, which features a spacious building area of 800 square meters and can accommodate 400 male and female students. The club's architectural design is characterized by modernity and fine details, and it is equipped with high-quality furniture.
2. The auditorium complex, which includes two model auditoriums and an administrative office. Each of them can accommodate 180 male and female students, and 360 male and female students can be accommodated at the same time. The halls are equipped with advanced educational means such as a smart educational whiteboard and high-quality sound systems.
3. A new gate for students to enter, two information rooms, and rehabilitating the corridors and approaches to the gate, to improve the students' experience in arriving at the institute.
4. Adding new green spaces and equipped gardens with a total area of 1,600 square meters.
5. An integrated health and service complex in which the rationalization of electrical energy consumption was taken into account in terms of smart lighting and the rationalization of water use.

At the Kufa Technical Institute:

6. A model building for the Information Technology Department, which includes four modern computer laboratories and a capacity of 100 male and female students. The laboratories are characterized by high-quality equipment, including computers and furniture, that meet the aspirations of high-level training. In addition, the building is equipped with an advanced studio for recording electronic lectures using Light Board technology. A number of administrative offices and service annexes were also provided to meet the needs of the institute's employees.
7. A central conference hall that can accommodate 240 people. The hall is equipped with advanced sound systems, smart display screens, and laser "data show" technology, and the best types of furniture have been provided to make it a model hall that accommodates conferences and scientific and cultural events.
8. The continuing education hall designated for holding training courses is equipped with an advanced smart screen and modern sound systems. This hall allows training courses to be presented in an interactive and innovative way.

At the Babylon Technical Institute:



9. The building includes listed classrooms and model laboratories. The building consists of two floors with a total area of approximately 2,000 square meters. The building has a capacity of up to 840 male and female students at the same time. The ground floor includes four typical auditoriums, each hall can accommodate 110 male and female students. On the first floor, there are four typical laboratories with a capacity of up to 100 male and female students in each laboratory.

10. Adding green spaces and equipping the building's courtyards with an area estimated at 1,200 square metres. These green spaces have been rehabilitated to be a suitable environment for rest.

The opening of these integrated projects reflects the commitment of Al-Furat Al-Awsat Technical University to the construction and reconstruction campaign launched by the President of the University, which resulted in the opening of many important projects, the goal of which was to achieve a model university environment for solid, high-level education. At the same time, these projects embody the shift towards more sustainable education and enhance awareness of the importance of developing infrastructure because of its clear impact on the educational process.



- **Opening of the smart gates project on the university campus**

The new portal, which has an area of 130 square meters, features two information lounges for male and female students, with 12 electronic portals that are opened using the university electronic card, with what distinguishes it



from being the ability to use it as a VISA card for electronic payment in all financial transactions inside and outside Iraq.

The President of the University indicated that this project is the first of its kind adopted by the University and represents the first stage, where similar projects will be opened in other university formations within the geographical area, in accordance with the contract that the University concluded earlier with the Arab Electronic Payment Company.

At the same time, he praised the efforts made by the Deanship of the Institute, the cadres of the engineering unit implementing the project, the Department of Construction and Projects in the University Presidency, which supervised and followed up on the stages of completion of the work, and the Computer Affairs Department in the University Presidency, with its supporting circles that work with the aim of improving all aspects of performance to achieve a sustainable university environment.



- Infrastructure Projects:

The university achieved great and qualitative achievements over the four years 2019 - 2020 - 2021 – 2022- 2023-2024, as a continuation of the urban renaissance that the university adopted within its long-term strategic plan.



Establishing and rehabilitating the infrastructure requires huge sums, but it is considered one of the requirements for the sustainability of the university and the cornerstone of providing a safe and comfortable university environment for associates and students. It is in constant and increasing need for infrastructure to accommodate the large number of students as a result of its expansion by opening scientific departments with specializations required in the labor market or introducing evening studies in At a time when there are no financial specializations available within the state's federal budget to establish or rehabilitate them, so the university presidency took upon itself this task, with the participation of its formations, to create and rehabilitate the infrastructure, relying on its own capabilities, employing and managing the available resources with high efficiency, and implementing it in a direct manner by its staff in the Department of Construction and Projects and the Department Diwan affairs, in addition to the engineering cadres in the university's formations, are being completed in record times, taking into account that the buildings are environmentally friendly and with modern urban designs that imitate the heritage of Iraq. The following is the infrastructure that was established or rehabilitated at each of the university's sites during the year 2022.

1-1 Infrastructure projects for the university presidency site in Kufa:

1. Construction of the Al-Melad Tower building. The building area is 200 m², the height of the tower is 24 m. Its base includes an electronic library and a decorative clock at the top.
2. Establishing a building for the Scientific Department at the university and the Department of Scholarships and Cultural Relations. The building area is 200 m², two floors. The first floor contains 4 rooms and the second floor contains two rooms, with environmentally friendly construction and a modern urban design.
3. Establishing an enclosed bridge between the Christmas Tower and the Scientific Department Building. The bridge contains a large hall for meetings, and high-strength tempered glass was used to cover it.
4. Establishing (2) model health groups, one for female students and the other for male students. 20 health units were created, 10 health units for female students and 10 health units for male students.
5. Rehabilitation of the closed sports hall and the addition of building the second



floor. Rehabilitation of the first floor by restoring three rooms, the staircase, and a health group for male and female students. Adding a second floor building and creating (2) rooms with a contemporary design and environmentally friendly construction.

6. Construction of the student club building, first floor, area 250 square meters, one floor that includes seating areas for students, a large kitchen room, and a meal service annex.

7. Establishment of the Cultural Center, second floor, area 250 m². A second floor was established above the student club in which literary, cultural and artistic activities and events were held. It included three annexes.

8. Establishment of the grand celebrations arena, student bleachers, and honoring platform. The area is 650 square meters and includes a large “dancing” fountain and a parade arena surrounded by stands equipped with chairs and a large honoring platform.

9. Construction of a five-a-side court with an area of (1600 m²) surrounded by a PRC fence and (2) poured concrete gates.

10. Establishment of (2) greenhouses with an area of (468) m² for planting evergreen shrubs and flowers.

11. Establishing a fish lake on an area of 825 square meters to raise fish of several types





SDG 11: Sustainable Cities and Communities





The site of the University Presidency in Kufa included the construction of the Christmas Tower, which is considered a cultural landmark for the university and the holy city of Najaf. It was distinguished by its location between the University Presidency and the formations of the Kufa site, and the addition of its annexes, including the bridge and the scientific department building, with an attractive and modern view. As well as creating model health groups consisting of (20) each group containing (9) health places for female students and a health place designed for female students with special needs. This leads to achieving the third goal “good health and well-being” of the Sustainable Development Goals. The same applies to the health group for students, as it was designed It includes one place for students with special needs and (9) health places for students equipped with all supplies, and the rehabilitation of the sports hall and the establishment of health groups inside it, which includes two wings, one for male students and the other for female students that meets the needs of the players, in addition to restoring the building’s staircase, adding galvanized iron cubicles, and painting its floor with “epoxy” paints. "From global facilities and the installation of VIP chairs for spectators, the student club building and the major celebrations square on the university campus in Kufa. Work on the project began in the middle of last year 2022 and on an area of (12,000) twelve thousand square meters and includes the student club building with two floors and a building area Approximately (1,500) thousand and five hundred square meters have been equipped with the best necessary requirements of equipment and furniture, in addition to a water body with an area of (1,000) thousand square meters to further reduce temperatures and dust and soften the atmosphere, which leads to contributing to the thirteenth sustainable development goal, “Climate Action.” It contains One hundred and thirty nozzles to form a giant fountain, in addition to an amphitheater for celebrations that can accommodate a thousand spectators and another platform for VIPs. The project also includes floor casting works, concrete walkways, and green spaces of approximately (9,000) nine thousand square metres. The site was also equipped with lighting poles as well as other necessary electrical installations. Another infrastructure project is the construction of a five-a-side stadium with a fence that can accommodate a large number of spectators and with international specifications. Two (2) plastic houses were constructed in addition to the main nursery inside the greenhouse to grow plants for the purpose of propagating them and distributing them to the green spaces within the university presidency



site and formation sites to keep pace with the changes. This contributes to achieving the thirteenth goal, “Climate Action,” of the seventeen sustainable development goals.

The Kufa formations site witnessed many infrastructure construction or rehabilitation works. In the Medical Technical College of Kufa, the construction of the scientific departments building was completed, which consists of three floors with a building area for each floor (2500) m² and includes study halls, laboratories, and the deanship, teaching, financial, student, and administrative rooms. And in the institute. Kufa Technician: The Jaber Ibn Hayyan Building was rehabilitated for theoretical lectures with a capacity of (300) students for the Pharmacy Technology Department. The Pharmacy Technology Building and the attached Ibn al-Haytham Hall were constructed to deliver theoretical lectures with a capacity of (160) students, as well as the establishment of computer laboratories for (4) nine (140) students. It was equipped with (86) new computers, and a garage for the cars of the Institute’s members that can accommodate more than (100) cars. In the Administrative Technical College, four halls were rehabilitated in preparation for the establishment of the Department of Industrial Management Technologies.

Infrastructure of the Najaf site:

1. Establishing terraced halls for the Forensic Evidence and Medical Devices Departments, building area (376) m², number of halls (6)
2. Establishing an amphitheater for students near the deanship building with an area of (68) square meters
3. Establishing a health group with a prayer hall near the student club. The building area is (60) square meters with two wings
4. Rehabilitation of the aviation workshop with an area of (193) m² and three halls
5. Rehabilitation of health groups in the workshops and the Al-Mukhtar building, with an area of (116) m² on the ground floor of the workshops and on the first floor of the Al-Mukhtar building.
6. Establishing a waterfall near the deanship building with an area of (42) square meters
7. Rehabilitation of the Calculator Center wing in the Administrative Department building with a building area of (1735) m², consisting of (9)



halls

8. Rehabilitation of the Health Administration Department wing in the Technology Department building with a building area of (3186) m² consisting of (8) halls
9. A project to establish an aviation workshop, a number of model classrooms, and attached offices at the Najaf Technical College, with a building area of (1400) m².



Infrastructure projects for the Samawah site:

1. Rehabilitation and maintenance of construction laboratories, building area (640) and number of (8) laboratories
2. Establishment of sanitary groups with a building area of (12 3) and a



SDG 11: Sustainable Cities and Communities

- number of (20) units
3. Maintenance and restoration of the accounting department halls. The building area is (572) and the number is (27) halls and three floors.
 4. Establishing a fence for the Rumaitha Technical Institute, building area (800) m² and height (3) meters
 5. Establishing rooms for inspecting female and male students and a room for follow-up members. Number of rooms (3)
 6. Establishing an integrated health complex with two wings for male and female students, equipped with all necessary supplies



During the year, many rehabilitation and maintenance operations were carried out for the halls and laboratories of the Al-Ghadeer Building, painting and maintenance of the curbstone of the sidewalks, rehabilitating and covering the front facades of the conference hall building and construction laboratories, rehabilitating and maintaining the street adjacent to the Accounting Department and internal departments and equipping it with lighting, the street behind the Al-Ghadeer Building and connecting it to the main streets of the Institute, and rehabilitating the courtyards. Adjacent to the residential floors and the sports field, rehabilitating and maintaining the water pipes and the main tank of the institute, and rehabilitating the drainage behind the Al-Ghadeer building and the student club, in addition to establishing (2) kiosks for reproduction and for selling refreshments and vegetable markets. At the Rumaitha Technical Institute, the institute's tents were constructed with a length of (800) meters and a height of three meters, and it includes two gates. For the entry of male and female students, rooms for inspection of female students and others for male students, a



room for follow-up and guard personnel, and an integrated health complex, in addition to constructing roofs for the members' cars and leveling the sidewalks and corridors, which ensures the smooth movement of students, associates and visitors in the institute.

- **Al-Furat Al-Awsat Technical University celebrates the opening of the scientific departments building at the College of Health and Medical Technologies, Kufa: <https://atu.edu.iq/?p=20784>**



The scientific departments building at the College of Health and Medical Technologies, Kufa, was inaugurated in a joyful ceremony attended by the President of the University His Excellency Dr. Liqaa Al Yassin, Member of the House of Representatives, as well as a number of university presidents, assistants and deans at the Central and Southern Technical Universities, and the Advisor to the Governor of Najaf Al-Ashraf. For higher education affairs. The representative of His Excellency the Minister, Professor Dr. Yassin Al-Ithawi, praised the efforts made to complete the project and praised the clear progress witnessed by Al-Furat Al-Awsat Technical University in all fields, especially reconstruction, construction and infrastructure rehabilitation projects. Al-Zuhairi, in his speech, indicated that the project was completed through the personal efforts of the engineering staff. And the technician in the Department



of Construction and Projects in the University Presidency and the engineering and technical staff in the College of Health and Medical Technologies, under the supervision and field follow-up by the University Presidency and the Deanship of the College, pointing out at the same time that completing such a project in critical economic conditions and the absence of a budget constituted a major challenge and another success added to the series of successes and achievements. Which the university recorded earlier, relying on its own capabilities and employing and managing available resources with high efficiency. Al-Zuhairi also indicated that this project will contribute to strengthening the educational process and raising the level of outputs in a way that meets the requirements of the labor market, especially since the halls and laboratories have been equipped with the latest equipment and supplies necessary to ensure high-quality education and training. On the other hand, the Dean of the College, Professor Dr. Angham Jassim Al-Ramahi, presented Her thanks and appreciation to all members of the University Presidency and the Dean of the College who worked hard and diligently to complete the project in record time, which is considered a major qualitative addition to the college in a time of challenge. Meanwhile, the Director of the Construction and Projects Department at the University Presidency, Dr. Muhannad Al-Khaqani, explained that the building includes many model classrooms and laboratories. The offices and spaces have a building area of approximately six thousand square meters, distributed over three floors, in addition to courtyards, gardens, sidewalks, and rest stations for students surrounding the building.



Making cities and human settlements inclusive, safe, resilient and sustainable
Targets include ensuring access to housing, basic services and public transport for all; participatory planning for human settlements; protection of cultural and natural heritage; And enhancing the ability to withstand disasters. Social sustainability aims to ensure access to appropriate housing at the appropriate price, in addition to sanitation and transportation for the poor majority. To achieve this goal, the university Implementing the following activities:

The university, with all its formations, is working to achieve this goal by investing its financial resources to create infrastructure with distinctive urban designs that take into account the specifications of sustainable buildings necessary to provide sustainable facilities for its students and members worthy of a sustainable university campus, as well as rehabilitating buildings such as study halls, laboratories, and administrative buildings. **and** Within the framework of the directives of the Presidency of Al-Furat Al-Awsat Technical University for digital transformation in all fields, the construction of smart gates has been completed. The new gate, which has an area of 130 square meters, is distinguished by containing two information lounges for male and female students, with 12 electronic gates that open using the university electronic card, with what distinguishes it from the ability to... Use it as a VISA card for electronic payment in all financial transactions inside and outside Iraq on the Kufa website,



The electronic urinal is one of the buildings

Within the framework of the renaissance of construction and reconstruction that the university is witnessing and its endeavor to improve the educational and service infrastructure, the university completed (25) buildings during the year 2023, between new construction and rehabilitation on the site of the university presidency and all its formations. The university organizes several activities, seminars and courses, including on sustainable architecture, smart home



systems and their applications, sustainable revitalization of historical areas, green concrete and the importance of its use in modern construction.



Among the seminars held were modern buildings and their relationship to sustainable development, sustainable preservation of historical buildings, a journey of innovation, and leadership in planning sustainable cities.



Rehabilitation of infrastructure, holding a workshop



Samawa site buildings



The university's formations implemented more than (42) workshops and seminars on sustainable cities and local communities

9- The Department of Bioresistance Technologies, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College, concluded a course on (Differential mixing leading to drug abuse and addiction). The three-day course aimed to clarify the serious damage caused by drug abuse to the individual's health and the diseases that are transmitted through Drug abuse, as well as the family and societal damage that drug abuse is itself considered a crime punishable by law. The course included several topics, the most important of which is clarifying and explaining what drug abuse means, knowing that drug abuse leads to imprisonment or kills a person, and what are the reasons that lead to drug abuse and the harms it causes. The course touched on the reasons for the spread of drugs among Iraqi society and the reasons that lead to their abuse. It also touched on how to know your addicted friend and how to behave with him when you know that he is addicted. The target group is all age groups, especially young people.

Both attended the session

Mr. Dr. Adel Obaid Hassouni Al-Saadi
millimeter. Alaa Aqeel Jassim



10- The Department of Plant Production Technologies, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College, concluded a course on (Methods of using medicinal and aromatic plants in medicine and treatments). The course, which lasted five days, aimed to introduce the importance of medicinal plants and their significance. The course included several topics, the most



important of which are techniques for exploiting medicinal plants. And aromatics and ways to use them, in addition to knowing the medicinal uses of these plants, and their areas of use. The course touched on introducing the importance of trading in medicinal herbs and increasing awareness about the safety of taking them as they are safe substances for health, with the necessity of relying on them to reduce manufactured chemicals that have side effects.

The target group is graduate and undergraduate students, teachers, and agricultural engineers.

Both attended the session

Prof. Dr. Ahmed Adnan Kazem

M.D. Rana Rais Arak

M.D. Ali Saleh Hassoun





11- The Department of Plant Production Technologies, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College, concluded a course on the safflower plant, its benefits and its medically effective compounds. The course, which lasted five days, aimed to know the medicinal benefits of the safflower plant. The course touched on clarifying what the safflower plant is, as it is a plant that is not commonly used or cultivated. It is limited to a few places as well as learning about its form, cultivation and uses, and studying its active compounds in seeds and how to use its seeds to treat medical conditions. The most important medical condition that safflower seeds treat is treating vitiligo in the skin and eczema, as well as removing fats on the liver. The target group is professors, researchers and students.

Both attended the session

Prof. Dr. Abdul Karim Hussein Rumi

Prof. Dr. Ali Hassan Ali Wadi

1. Completing preparations to establish a Department of Limb and Support Manufacturing Technologies at the Diwanayah Technical Institute.
2. Opening of the model classroom complex at the Diwanayah Technical Institute.
3. Construction of a new fountain in front of the administration building.
4. Installing electric lighting poles in the corridors of the institute.
5. A new fountain is under construction between Al-Mutanabbi Building and the Al-Hasaba Center Building.
6. Construction of a research laboratory extension building.
7. Completing maintenance and rehabilitation work for the institute's laboratories and classrooms as part of the institute's objectives to provide a sustainable university environment for students and associates.



SDG 11: Sustainable Cities and Communities



8. Maintaining generators and lighting poles, cleaning, decorating and watering gardens, and cleaning the institute's courtyards and corridors





9. Implementing a maintenance and rehabilitation campaign for refrigeration and electrical appliances



10. Rehabilitating the Institute Gate No. 2, rehabilitating and covering the floor of the medical departments, rehabilitating and maintaining the fountain in the middle of the institute's gardens, and rehabilitating the side gate of the medical departments building overlooking the Student Affairs Building.



11. Volunteer work for students of the Nursing Technology Department at the Diwaniyah Technical Institute in repairing medical devices in the scientific departments.

12. Cleaning and watering gardens, removing excess and harmful plants, rehabilitating the courtyards, and rehabilitating and cleaning the courtyards for the gate.





13. Maintenance and restoration work for the transformer room opposite the Student Affairs Building.



14. Installing 1.5m garden lighting poles on the sides of the students' walkways.



15. Implementation works for the external fountain of the Technical Institute.



16. Making iron awnings in the yards.



17. Implementation and clearing works on the institute's external fence.

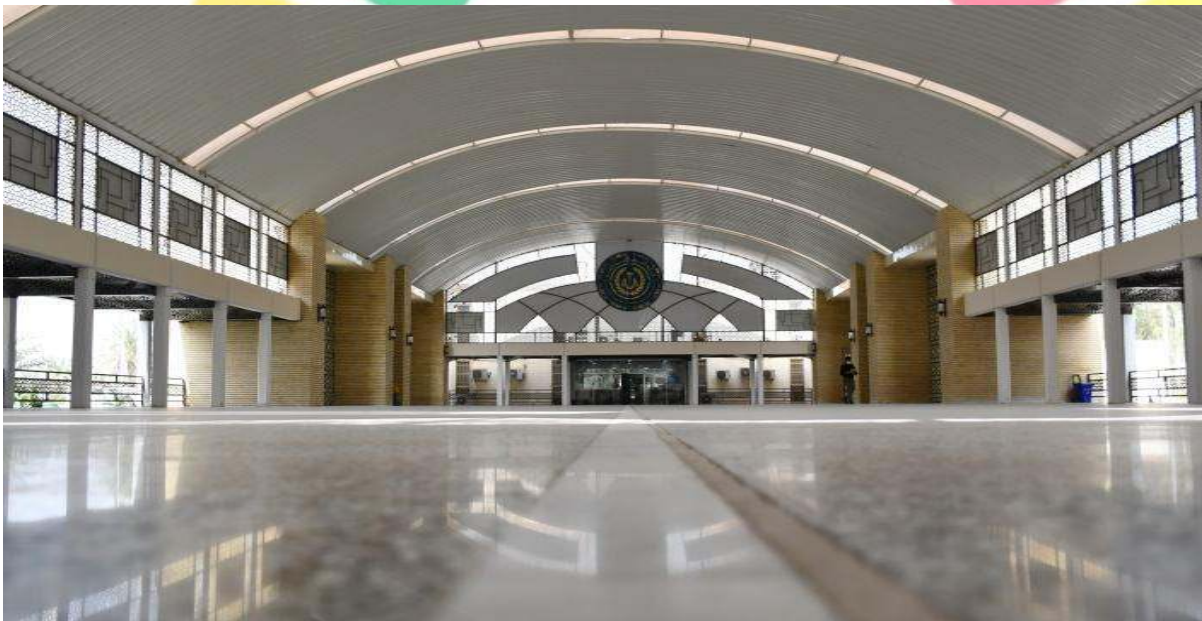




18. The final stages of construction work for the health laboratory annex.



- 1- Project name: Roofing the central space of the university presidency and constructing the main gates



2- Project name: Creating fountains and gardens at the entrance to the university presidency gate



- 3- Project name: Establishment of a portal and information building for the entrance to the university presidency





4- Project name: Establishment of a seven-player stadium at the university headquarters





5- Project name: Creating a greenhouse for shade plants



6- Project name: Rehabilitation of the closed sports hall at the university presidency



7- Project name: Rehabilitation of the continuing education building at the university presidency



SDG 11: Sustainable Cities and Communities

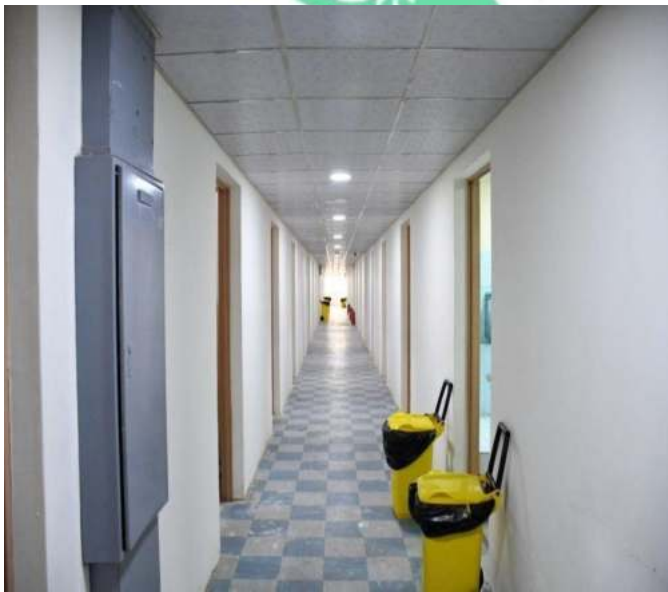




8- Project name: Establishment of green transportation stations (bicycles)



9- Project name: Rehabilitation of the internal departments building at the site of the Technical Institute / Najaf



10- Project name: Completion of the scientific departments building project at the Technical College of Engineering/Najaf





11- Project name: Construction of the Scientific Departments Complex building at the University Presidency



12- Project name: Establishment of a smart hall building in the university presidency





SDG 11: Sustainable Cities and Communities



13- Project name: Establishment of the digital library and (Birthday Tower)





14- Project name: Project to complete the shortcomings of the building of the College of Health and Medical Technologies / Kufa



- In the context of Al-Furat Al-Awsat Technical University's efforts to achieve sustainable development goals... Al-Zuhairi inaugurates the Al-Bustan Model Project after rehabilitation:
<https://atu.edu.iq/?p=21764>





In the context of Al-Furat Al-Awsat Technical University's efforts to achieve sustainable development goals...

Al-Zuhairi inaugurates the Al-Bustan Model Project after rehabilitation.

In a promising and unique initiative... The President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, inaugurated the Al-Bustan Model Project inside the university campus in Kufa.

It should be noted that the orchard, with an area of seven dunams, includes approximately one hundred and fifty palm trees that were planted during the year 2010.

During the past months, the university presidency has begun rehabilitating the orchard, plowing it, marketing the land, and installing a model irrigation system 55 meters long, in addition to establishing control gates for the outer perimeter and creating a water body with an area of 2,000 square meters with approaches, and expanded three thousand cubic meters of water to be exploited for the purposes of irrigating the orchard and its surrounding areas. .

The President of the University, during the opening ceremony, which was attended by the Dean of the College of the Future University, Professor Dr. Hassan Shaker Magdy, and the members of the University Council and department directors at the University Presidency, praised the efforts made to complete this project, which comes in the context of the University's directions to achieve sustainable development goals and provide a model university environment worthy of its name. The university and its position, especially the engineering and personnel staff in the departments of reconstruction, projects, and office affairs, the assistants, and the supporting administrative and financial circles.



- The Ministry of Higher Education and Scientific Research/the Scientific Supervision and Evaluation Agency granted certificates of excellence to Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University, for the Department of Electrical Power Technology Engineering, Building and Construction, and the Department of Plant Production Technologies, for first place in the Iraqi classification of universities for the year 2021, by competing with... Corresponding majors in public universities, private universities and colleges: <https://atu.edu.iq/?p=22231>





-Opening of the classroom building for engineering specializations at Al-Musayyib Technical College: <https://atu.edu.iq/?p=21602>



For the sake of a sustainable university environment...and to improve the university environment and from the standpoint of sustainability and its importance to achieve a safe and comfortable university environment for members and students, the President of Al-Furat Al-Awsat Technical University,



Professor Dr. Muzaffar Sadiq Al-Zuhairi, inaugurated the engineering halls building at Al-Musayyib Technical College after its rehabilitation. Al-Zuhairi, in an interview with the university media, explained: The building includes two floors, which have been fully rehabilitated, and include model classrooms, rooms for discussing theses and dissertations for postgraduate students, as well as meeting rooms, rooms for teachers and associates, and other service complexes. Pointing out that the work was under the direct supervision of The Dean of the College, Assistant Professor Dr. Ali Hassan Al-Zubaidi, accepted the engineering positions in the College in coordination with the Department of Construction and Projects at the University Presidency. Al-Zuhairi stressed the necessity of improving the reality of services provided to students and paying attention to workshops, laboratories and other service facilities, which make the college and institute a model and attractive university environment through sound and rational management of material and human resources. He thanked the Dean of the College, the assistants and the associates for their distinguished efforts. In the same context, Al-Zuhairi met with a number of students and associates, listened to their problems, and recommended overcoming all obstacles. While the opening ceremony was attended by the university's scientific and administrative assistants, Professor Dr. Ahmed Ghanem Waday, Professor Dr. Muhammad Al-Majtoui, deans of colleges and institutes, department directors at the university presidency, assistants, department heads, associates, and students.

Al-Furat Al-Awsat Technical University provides free access to all whether they are students at the university or local, International community through different accesses such as Actual & Virtual Libraries, Computers, Actual & Online courses and workshops, free access to lectures, publications, etc. as in the following evidence





1- Free Libraries (Al-Furat Al-Awsat Technical University,Iraq)



2- Free Access for Computers (Al-Furat Al-Awsat Technical University,Iraq)

<https://atu.edu.iq/?s=%D8%A7%D9%84%D9%85%D9%86%D8%B4%D9%88%D8%B1%D8%A7%D8%AA>

3- Free Access for publications (Al-Furat Al-Awsat Technical University,Iraq)

- <https://t.me/atu2020>

- <https://www.youtube.com/channel/UCspR7h6fe217HXPE4ao4I8g/videos>

4- Free Access for Courses & Workshops (Al-Furat Al-Awsat Technical University,Iraq)

- https://cnj.atu.edu.iq/?page_id=6608

- https://isa.atu.edu.iq/?page_id=305

5- Free access for Lectures (Al-Furat Al-Awsat Technical University,Iraq)

- Al-Furat Al-Awsat Technical University provides free public access to open spaces and green spaces



https://youtu.be/fSigHTN_m1U

The university's sites in the five governorates are working on planting seedlings, where (9660) were planted during 2021 only, and planting the surrounding trees as windbreakers or fruit trees by (3200) while the palm trees are located (815) on the campus (Kufa) university during 2021. In the Technical Institute of Karbala, (50) new palms were planted in addition to the existing palms previously and according to distinctive agricultural arrangements that add aesthetics within its geographical location, and the cultivation is carried out by voluntary campaigns for students alone or with their professors and associates in the university sites to grow grass

- Al-Furat Al-Awsat Technical University undertake actions to promote the % of more sustainable commuting through
 1. Limiting parking to control on the space of parking
 2. Free to rent bicycles on campus to reduce Emissions
 3. Free Bus to reduce the number of cars in the university



Limiting parking (Al-Furat Al-Awsat Technical University)



The Free bicycle (Al-Furat Al-Awsat Technical University)





Free Bus (Al-Furat Al-Awsat Technical University)

Al-Furat Al-Awsat Technical University
Department of Quality Assurance &
University Performance

جامعة الفرات الأوسط التقنية
قسم ضمان الجودة وإتداء المعايير

3. مقترح تجهيز ونصب وصيانة منظومات الطاقة الشمسية لكافة بنايات رئاسة الجامعة وتشكيلاتها وذلك بهدف ترشيد استهلاك الطاقة الكهربائية واعتماد مصادر الطاقة المتجددة والنتيجة تقليل انبعاثات غاز ثاني أكسيد الكربون CO₂.

4. مقترح مطابقة كافة الوارث ودوائر الدولة والقطاع الخاص باستعداد الجامعة لتجهيز ونصب منظومات الطاقة الشمسية وبأسعار مخفضة لتجاوز سعر الكلفة وذلك كمساهمة من الجامعة في خدمة المجتمع.

5. مقترح إنشاء باصات خاصة لدخول المركبات الى الفراجات الخاصة بالجامعة وتشكيلاتها وإنشاء كراجات خاصة بمركبات الطلبة خارج حدود الجامعة أو التشجير وذلك بهدف تقليل انبعاثات غاز ثاني أكسيد الكربون داخل المجمع الدراسي مع مقترح توسيع المناطق الزراعية في الجامعة.

ملاحظة: اعتماد ASTM International Standards في اجراء كافة التغييرات المذكورة اعلاه مع مراعات تطبيق اللقائ اعلاه على كافة البنائات التي نشأت حديثا أو قيد البناء.

التوصيات

تم موافقة المجلس بالاجماع على المقترحات اعلاه على ان يتم تشكيل لجان من ذوي الاختصاصات لاجراء دراسة ومن ثم تقديم التقارير التقنية والمالية المصاحبة لتق مشروع.

أ.م. بشار جبار حمزة
مقرر المجلس

أ.م.د. احمد غانم وداي
مساعد رئيس الجامعة للشؤون العلمية

To reduce the carbon dioxide emissions within the ATU sits, it is the proposal for establishing special patches that control and reduce the number of vehicles allowed to travel or park inside all ATU campuses, and building new parking areas for students' cars outside the ATU main campus and its related sites as well as expanding planted and the green regions inside ATU sites.



SDG 12: Responsible Consumption and production

RESPONSIBLE
CONSUMPTION
AND PRODUCTION





The university's contribution to achieving responsible production and consumption is one of the development goals:

- The university seeks to contribute to achieving this goal of sustainable development through the following:
 - The presence of consulting offices to provide advisory services to state departments, the private sector, and members of society in accordance with applicable laws and instructions by benefiting from the experience of university professors and craftsmen in various specializations to assist them in preparing production plans for factories and public and private companies in a way that suits the volume of consumption in order to achieve a balance between them and avoid the situation of large production that exceeds Consumption volume or less
 - Providing studies and solutions to the problems it suffers from or to determine its future plans regarding production or determining consumption quantities based on variables in the labor market.
 - Marketing research to relevant parties related to production and consumption determination
 - University graduates from the middle cadres, from graduates of technical and primary institutes to graduates of technical colleges, as well as graduates of postgraduate studies (master's and doctorate). Each category of graduates has a distinguished role in the sectors (agricultural, industrial and commercial).
 - To obtain patents for university members, which numbered (9) patents in medical and technological specialties, and their role in improving production processes.

The University also has an economic role in generating its own financial resources through the establishment of plant and animal production projects to provide products that contribute to meeting the local need and increasing green spaces in all university sites, in addition to providing scientific consultations in all scientific disciplines in it, investing in the mechanism of cooperation optimally and carrying out service projects for students to provide their needs on campus.

Service Projects

- 1- Cultivation of the crop of the shilling
- 2- Poultry field
- 3- Planting cucumber crop



-
- 4- Laying hen project
 - 5- Cultivation of field crops
 - 6- Fish Production Project Number (2)
 - 7- Nurseries 3 for the production of vegetables
 - 8- Meat production and sale project
 - 9- Arboretum for the production of seedlings and silhouette plants
 - 10- Honey production
 - 11- Egg Crushing Project

Ensuring sustainable consumption and production patterns

Objectives include achieving sustainable management and efficient use of natural resources; improving waste management; Promoting sustainable public procurement; ensuring access to information; Capacity building for sustainable development. Economic sustainability aims to use modern technology to improve services and expand access to disadvantaged groups, in addition to encouraging cooperation between different sectors and community partners to ensure continued success. To achieve this goal, the university implemented the following activities:

There are productive training projects in the university's formations for the agricultural, plant and animal departments at the Al-Musayyib Institute, Kufa, and the Al-Musayyib Technical College. These formations own large agricultural areas that they have invested to train students and contribute to providing agricultural products to meet part of the needs of their local communities with honey, watermelon, wheat, cucumber and date products, in addition to providing meat and egg products. And raising livestock of several types, in addition to holding many activities to support farmers in the areas adjacent to the formations through workshops and seminars, amounting to (56) activities, most of which emphasized the necessity of balancing consumption and production through optimal investment of natural resources, the use of modern production methods, and the promotion of purchases from production. local for its sustainability, and expanding the cultivation of fruit trees, especially palm trees, because of their great economic and environmental importance, and waste recycling.



A planting campaign at one of the university's sites and an awareness campaign was held targeting students and employees of Al-Musayyib Technical College entitled (Recycling) to raise awareness of the importance of recycling of all kinds in order to protect natural resources and reduce waste.



Pictures of the activities of the Rumaiha Technical Institute about:-

- Energy, health and water.
- Projects
- Student activities



Rumaitha Technical Institute holds a workshop entitled (Aquatic Life and its



Preservation)

Al-Zuhairi visits the Rumaitha Technical Institute and follows up on



infrastructure projects on the ground

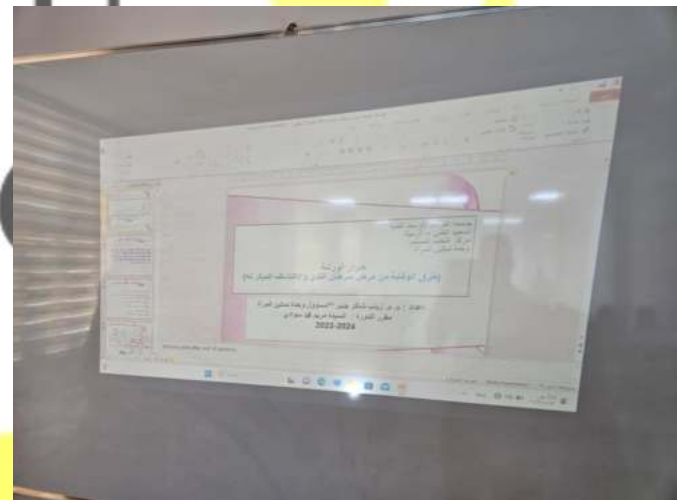


Rumaitha Technical Institute holds a course entitled (Different uses of renewable



energy and their impact on sustainable development)

Rumaitha Technical Institute holds an awareness workshop entitled Methods of breast cancer prevention and early detection



Rumaitha Technical Institute holds a sports festival

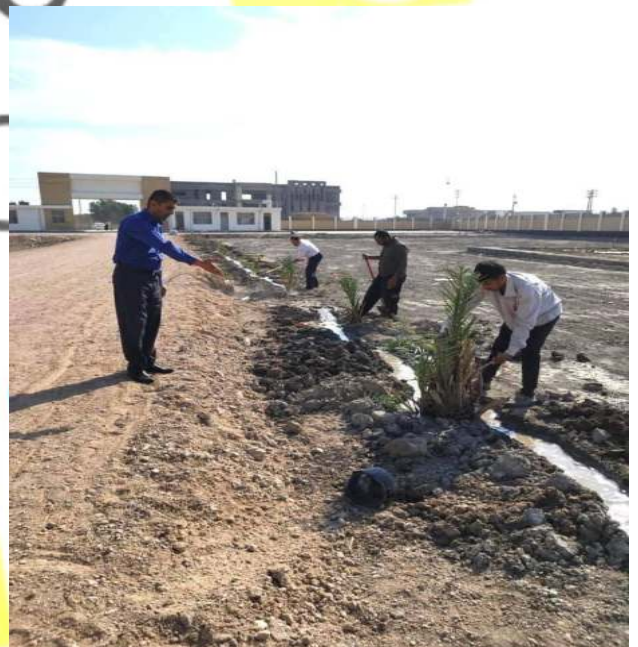




Al-Rumaitha Technical Institute holds a course entitled Renewable Energy and Its Future Prospects in Iraq



Rumaitha Technical Institute organizes a volunteer afforestation campaign





Within the Global Entrepreneurship Week, the Rumaitha Technical Institute organizes the Scientific Cultural Festival



Rumaitha Technical Institute holds a workshop entitled (Sustainable Development)



Rumaitha Technical Institute holds a symposium entitled (Drugs and their impact on the individual and society)





Rumaiitha Technical Institute holds the Cultural Book Festival



Rumaiitha Technical Institute holds a scientific trip for students of the Electrical Technology Department





Students from the Rumaitha Technical Institute visit the Chamber of Industry in Muthanna



- Al-Furat Al-Awsat Technical University participates in the third annual date exhibition organized by the Babylon Agriculture Directorate: <https://atu.edu.iq/?p=22348>



Within the framework of the directives of Al-Furat Al-Awsat Technical University to embody the concept of a productive university and work to achieve sustainable development goals... and under the guidance of the President of Al-Furat Al-Awsat Technical University participated in the third annual date exhibition organized by the Babylon Agriculture Directorate. Participation in the exhibition was represented by Dr. Shadhar Abdul

Hamza Al-Amiri, Kufa Technical Institute, by displaying samples of date varieties and pictures of the model palm orchard on the university campus in Kufa, which includes various varieties of palm trees and produces types of dates such as barban, khastawi, shukr, barhi, khadrawi, al-Zahdi and al-Maktoum. It is mentioned that The model orchard has been rehabilitated by the technical staff in the Department of Diwan Affairs at the University Presidency in coordination with the Department of Construction and Projects and with continuous field follow-up by the President of the University with the aim of improving the university environment by increasing the green spaces on the campus and



creating a lake for raising fish resources, in addition to adopting Modern irrigation techniques. It should be noted that the university's participation in the exhibition was admired by everyone.





SDG 13: Climate Action





- Organizing environmentally friendly festival activities

Al-Furat Al-Awsat Technical University organized the annual Environmental Friendly Festival, where emphasis was placed on...

1. The importance of paying attention to the environment, especially the university environment, because of its positive impact on the educational and training process
2. Pointing out the university's efforts to invest in available lands to reclaim them and turn them into green areas
3. Planting many fruitful and evergreen plants within the university

The term pollution, its types, causes, and the effects of each type were also clarified, a number of annual statistics related to this topic were presented, and the students presented a representative scene simulating the effect of smoking on the health of the individual and society.

The festival concluded with an event presented by the department's students, during which they displayed awareness and guidance posters inspired by the occasion.

After that, the rest of the activities were opened, which included providing free medical examinations, a charity market, a display of scientific posters, and various events.





SDG 13: Climate Action





SDG 13: Climate Action

Take urgent action to combat climate change and its effects

Objectives include strengthening resilience to climate change and natural disasters, including in marginalized communities; Implementing the Green Climate Fund. Environmental sustainability aims to ensure the sustainable or ideal use of land, forests, energy and mineral resources. To achieve this goal, the university implemented the following activities:

The university's formations are expanding by cultivating green spaces by planting palm trees, ornamental trees, thallus, and flowers in order to contribute to eliminating desertification and softening the atmosphere to get rid of global warming and reduce pollution, as well as using cooling devices with less pollution and using natural energy sources. The Samawa Technical Institute reformed and changed the desert climate after planting (1000) dunums of desert land and converting them into agricultural areas to advance the changing climate and desert reality. Investing in enriching local markets with agricultural products



Agricultural land investment by the Samawah Institute

The Musayyib Technical Institute invested in the agricultural lands it owned by cultivating more than (350) dunams of wheat and more than (150) dunams of the rice crop. And work to plant evergreen trees to contribute to improving the climate, which do not require water and can withstand climate change (such as drought) and by using modern irrigation methods to reduce water waste. The university's formations carry out various activities, including workshops,

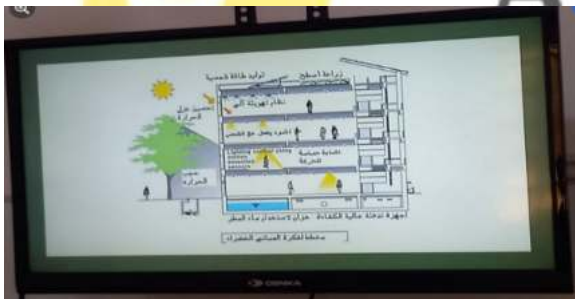


SDG 13: Climate Action

courses and seminars on climate and how to deal with the changes taking place in the world. Among these activities is a symposium on addressing desertification and expanding green areas.



The university's formations are implementing many courses, seminars and workshops to spread the culture of correct dealing with climate change. The number of these activities has reached (51) activities (3) research on climate, and the university's green spaces have reached (0h) m2



Climate symposium

University students in all formations have an important role in dealing with climate change by carrying out volunteer campaigns to cultivate green spaces, plant fruit trees and ornamental trees, and plant flowers and evergreen trees. .



Volunteer campaigns for students

Pictures of projects and spaces / Al-Musayyib Technical College



- 1- Rehabilitation of the information center with an area of 520 square meters at the Musayyib Technical College





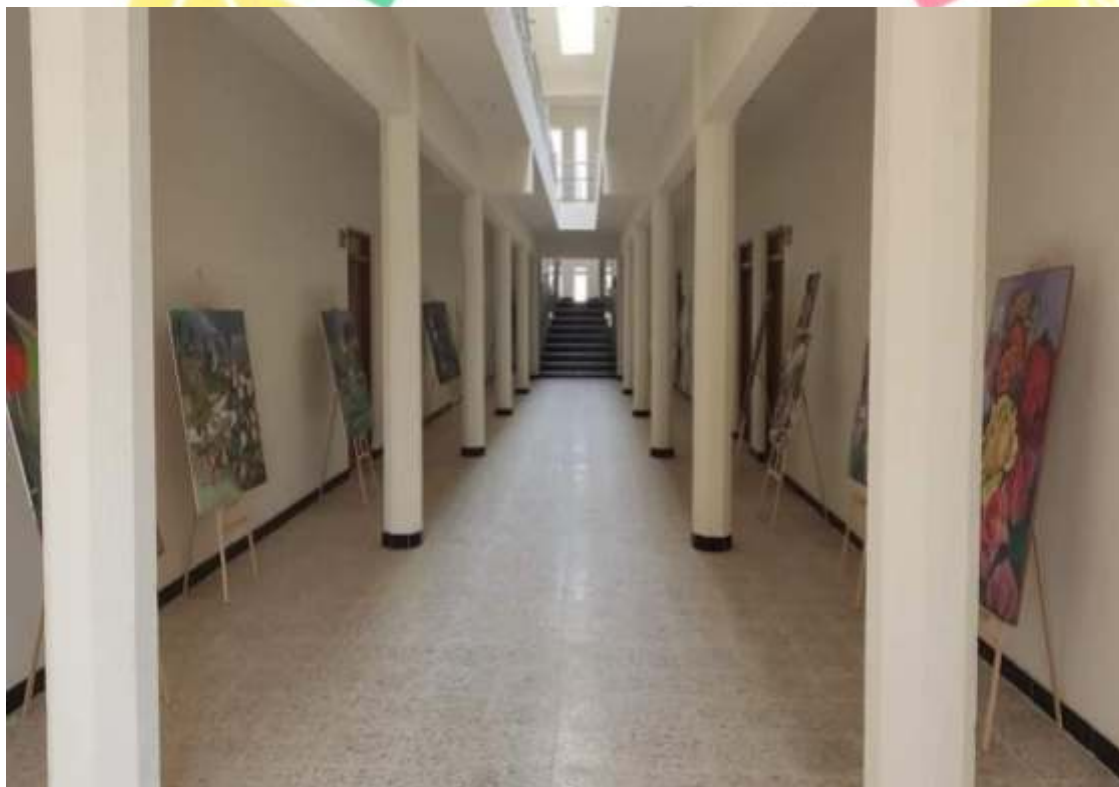
SDG 13: Climate Action





SDG 13: Climate Action

2- The classroom building has been rehabilitated with an area **1260 square meters**.





3- Rehabilitation campaigns for green spaces at Al-Musayyib Technical College





SDG 13: Climate Action

established three model classrooms with a total capacity of approximately (500) five hundred students, in addition to a hall for continuing education courses, an electronic library, scientific and administrative offices and other service facilities that have been equipped with modern requirements of equipment, furniture and other equipment, and from the best facilities. .





SDG 13: Climate Action

A field tour to follow up on the progress of construction work in the new Technical Institute Deanship building. This project comes within the Institute's vision to provide a modern educational environment that meets the needs of students and faculty members, and is in line with the latest specifications and the highest international construction standards.



Green spaces at the Najaf Technical Institute.

SDGs





laboratories



Criminal and forensic evidence laboratories have been completed.-

1. Completing maintenance and rehabilitation work for the institute's laboratories and classrooms as part of the institute's objectives to provide a sustainable university environment for students and associates.
2. Maintaining generators and lighting poles, cleaning, decorating and watering gardens, and cleaning the institute's courtyards and corridors



SDG 13: Climate Action





SDG 13: Climate Action





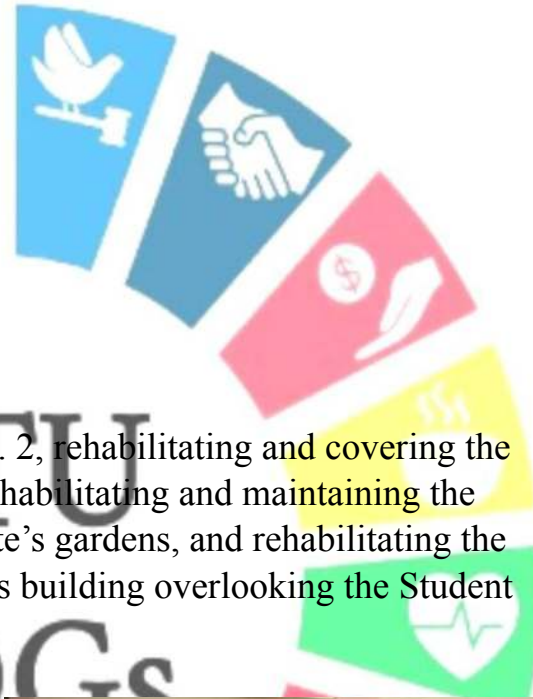
SDG 13: Climate Action





SDG 13: Climate Action

3. Implementing a maintenance and rehabilitation campaign for refrigeration and electrical appliances



4. Rehabilitating the Institute Gate No. 2, rehabilitating and covering the floor of the medical departments, rehabilitating and maintaining the fountain in the middle of the institute's gardens, and rehabilitating the side gate of the medical departments building overlooking the Student Affairs Building.





SDG 13: Climate Action

5. Volunteer work for students of the Nursing Technology Department at the Diwaniyah Technical Institute in repairing medical devices in the scientific departments.
6. The Department of Community Health Technologies at the Diwaniyah Technical Institute organized a volunteer campaign to the Al Amal Institute for the Deaf and Mute in Diwaniyah Governorate out of the spirit of social solidarity.
7. The Civil Defense Unit at the Diwaniyah Technical Institute, in cooperation with the Red Crescent Society in Diwaniyah and the Women's Empowerment Unit, held an educational awareness seminar on



desertification, expanding green spaces, and rationalizing water consumption. And adopting sustainable development projects for lands suffering from desertification.

8. Completing preparations to establish a Department of Limb and Support Manufacturing Technologies at the Diwaniyah Technical Institute.
9. Opening of the model classroom complex at the Diwaniyah Technical Institute.
10. The Rehabilitation, Employment and Follow-up Unit at the Diwaniyah Technical Institute organized a visit to the Iraqi Federation of Industries, Diwaniyah Branch To open horizons of cooperation in the field of training and developing students, supporting their ideas, and creating job opportunities for graduates in several specializations.



SDG 13: Climate Action

11. Cleaning and watering gardens, removing excess and harmful plants, rehabilitating the courtyards, and rehabilitating and cleaning the



courtyards for the gate.

12. Rehabilitating roads and corridors and creating green squares with a new fountain in the middle to provide a university atmosphere and environment.



13. Maintenance and restoration work for the transformer room opposite the Student Affairs Building.



SDG 13: Climate Action



14. Installing 1.5m garden lighting poles on the sides of the students' walkways.



15. Implementation works for the external fountain of the Technical Institute.



16. Making iron awnings in the yards.



SDG 13: Climate Action



17. Implementation and clearing works on the institute's external fence.



18. The final stages of construction work for the health laboratory annex.





SDG 13: Climate Action

19. The Women's Empowerment Unit, in cooperation with the Community Health Technologies Department, held a symposium entitled (Supporting energy and reducing emissions in environmental pollution).
20. The Department of Materials Management Technologies, in cooperation with the Women's Empowerment Unit, held artistic and cultural events on the occasion of the Great Victory Day, in the presence of Assistant Professor Dr. Zaid Maan Hassan Al-Dulaimi, Dean of the Institute, the heads of scientific departments, and a number of associates and students. The activities included a national play prepared and performed on stage by the department's students, telling the tales of heroism. Our army and our national mobilization in defeating terrorism in the epic of victory.



21. The Women's Empowerment Unit, in cooperation with the Department of Health Management Technologies, joined a solidarity stand within the 16-day campaign to combat violence against women.



22. In order to enable the student to see pathological cases that require the installation of a prosthetic limb and to participate in the process, the students of the Limb and Support Manufacturing Techniques Department organized a



scientific visit to the Rehabilitation Center for People with Special Needs (Disabled) and the Prosthetic Limbs Workshop.



23. The Women's Empowerment Unit, in cooperation with the Media and Government Communications Division and in cooperation with the Community Police Department in Diwaniyah, held an awareness seminar on electronic blackmail.

24. Participation of members and students of the Diwaniyah Technical Institute in the University Festival of Fine Arts, held at Al-Furat Al-Awsat Technical University.



25. Implementing practical training curricula for practical academic subjects for students of the Department of Health Management Technologies at Al-Diwaniyah Teaching Hospital and Al-Hussein A. Children's Hospital.



SDG 13: Climate Action



26. The Media and Government Communication Division at the Diwaniyah Technical Institute, in cooperation with the National Security Service in Diwaniyah, held an awareness seminar entitled (The Harms of Drugs and Their Health Risks).

27. The Department of Limb and Support Manufacturing Technologies at the Diwaniyah Technical Institute held a course entitled Isolation and Diagnosis of Contaminated Bacteria for Infections Leading to Amputation of Limbs.

28. The Mechanical Technology Department, in cooperation with the Women's Empowerment Unit, organized a theatrical performance entitled The Al-Aqsa Flood to support our Palestinian people.

29. Continuing the volunteer work of students of the Department of Community Health Technologies at the Diwaniyah Technical Institute in maintaining and painting the microbiology laboratory.





SDG 13: Climate Action

30. The Department of Community Health Technologies at the Diwaniyah Technical Institute held a course entitled The Effect of Medicines and Nutritional Supplements on the Results of Laboratory Analysis.

31.

32. Volunteer work for students of the Nursing Technology Department in maintaining and cleaning equipment for the microbiology laboratory.

33. The Civil Defense Unit at the Diwaniyah Technical Institute, in cooperation with the Explosives Department in Diwaniyah, held a scientific symposium entitled (Identifying and Beware of Explosives) for students of the Nursing Technology Department.

34. The Department of Health Management Technologies at the Diwaniyah Technical Institute held a symposium entitled The Dangers of Electronic Cigarettes.

35. Organizing the activities of the Global Entrepreneurship Week at the Diwaniyah Technical Institute, which continued for seven days. The closing ceremony included several pioneering programs and events, including workshops, exhibitions, handicrafts, courses, seminars, and success stories.

36. The students of the Department of Health Management Technologies/morning study for the second stage at the Diwaniyah Technical Institute organized a scientific visit to the Department of Pharmacy and Therapy at the Diwaniyah Teaching Hospital.

37. Volunteer work for students of the Department of Community Health Technologies at the Diwaniyah Technical Institute in maintaining and painting the chemistry laboratory.

38. Volunteer work for professors and students of the Nursing Technology Department at the Diwaniyah Technical Institute in repairing scientific department laboratories.

39. The Women's Empowerment Unit at the Diwaniyah Technical Institute held a workshop entitled How to make soap at home by hand.





40. The Accounting Technologies Department at the Diwaniyah Technical Institute held a course entitled The Role of Auditing in Achieving Sustainable Development Goals.

41. Participation of the Women's Empowerment Unit in a workshop on home artistic works (such as glass painting, engraving, and embroidery).



42. Students of the Department of Community Health Technologies/Second Phase at the Diwaniyah Technical Institute organized a scientific visit to the Communicable Diseases Center at Diwaniyah Teaching Hospital.



43. The Nursing Technology Department at the Diwaniyah Technical Institute held a scientific symposium entitled Early detection of breast cancer as a means of preventing the impact and repercussions of the disease.



SDG 13: Climate Action

44. The Mechanical Technology Department held a student festival in coordination with Gaza. The festival included reading an opening speech and poetry, in addition to a play narrating the events in Gaza.

45. Implementation and painting works for the halls and corridors of the administrative departments building.



46. Implementation works for the electrical transformer room.



47. Implementation work on the interface of the medical departments of the Diwaniyah Technical Institute is in progress.



SDG 13: Climate Action



48. Implementation work in progress for the Diwaniyah Foreign Affairs Technical Institute portal.



49. The work of finishing the carpentry workshop surface with ceramic floor tiles.



SDG 13: Climate Action



50. The Mechanical Technology Department planted the front garden of the department with a group of flowers and trees, in cooperation with a group of Mechanics Department staff.



51. The Department of Mechanical Technologies held a scientific visit to the textile factory in Najaf to see the work of production lines in the textile industry.



SDG 13: Climate Action



52. The Rehabilitation and Employment Unit, in cooperation with the Mechanical Technology Department, held a training course entitled PowerPoint Basics for second-year students and graduate students.



53. Extending a main electricity cable to the new fountain in the middle of the gardens.





54. Making rainwater drainage manholes.



55. A massive campaign to plant palm trees.



56. Secondary ceiling cleaning work in workshops.

57. Implementation and application work in cash for the medical departments building. The final stages of implementation work.



58. Implementation work on the entrance to the main door of the medical departments building with wrought iron is in progress.



SDG 13: Climate Action



59. Making agricultural sprinklers in gardens, first stage.

60. Implementation work for the internal fountain of the Diwaniyah Technical Institute is in progress.



61. The Sustainable Development Committee in the Nursing Technology Department, in cooperation with the Women's Empowerment Unit, held a workshop entitled Computer Program and Social Media Applications, the Eighteenth Goal for Sustainable Development.

62. The Nursing Technology Department at the Diwaniyah Technical Institute held a scientific symposium entitled Accident Prevention.

63. Students of the Nursing Technology Department at the Diwaniyah Technical Institute organized a scientific visit to the Diwaniyah Dairy Factory.



SDG 13: Climate Action



64. The Department of Limb and Support Manufacturing Techniques at the Diwaniyah Technical Institute held a course entitled (Negative Effects of Drugs, Toxins, and Psychotropic Substances).

65. The Department of Mechanical Technologies at the Diwaniyah Technical Institute held a scientific symposium entitled Solar air conditioning to achieve sustainability.

66. The Department of Community Health Technologies at the Diwaniyah Technical Institute conducted a course entitled Water Pollution, Its Impact on Fish, and Its Interference within the Food Chain.

67. The Department of Nursing Technology at the Diwaniyah Technical Institute organized a scientific visit to the Al Ain Foundation for Orphan Care.



68. Creating an evening study for the Department of Limb and Support Manufacturing Techniques at the Diwaniyah Technical Institute.

69. The Women's Affairs Unit, in cooperation with the Department of Community Health Technologies, held a symposium entitled Green Chemistry and How to Reduce Pollution.



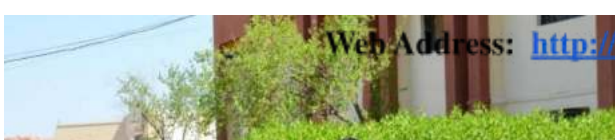
SDG 13: Climate Action

70. The youth of the Sa'i Volunteer Team from the residents of the housing area in Diwaniyah Governorate, and under the slogan (I am a volunteer) are carrying out a volunteer tree planting campaign in the outer courtyard of the gate of the Diwaniyah Technical Institute.

71. The maintenance unit cadres launched a campaign to implement irrigation systems using sprinklers and adopt advanced irrigation systems, with the aim of rationalizing water consumption and reducing waste.



72. The maintenance and services unit staff maintained the generators and lighting poles, cleaned, decorated and watered the gardens, and cleaned the institute's courtyards and corridors.





Conserva

- **Al-Furat Al-Awsat Technical University celebrates the occasion of National Afforestation Day... and launches a wide afforestation campaign in all its formations.**

In implementation of the directives of the Prime Minister to adopt the National Afforestation Day on March 12 of each year, and in accordance with the program of the Ministry of Higher Education and Scientific Research, Al-Furat Al-Awsat Technical University celebrated this occasion, which coincided with the beginning of the holy month of Ramadan, which it organized

The Afforestation Unit in the Scientific Affairs Department in cooperation with the Bureau Department.

The celebration was attended by the University President, Professor Dr. Hassan Latif Al-Zubaidi, assistants, department directors, and a large number of associates.

At the beginning of the celebration, the President of the University pointed out the importance of agriculture and its role in mitigating the effects of severe climate changes to which Iraq is exposed, such as desertification, high temperatures, etc.

He also stressed the continued efforts of the university presidency and its formations to work through afforestation campaigns to improve the university environment and its sustainability.

While Dr. Hussein Abdel Zahra, head of the afforestation unit, gave a lecture entitled The importance of afforestation in environmental sustainability.

On the other hand, the workers in the Agriculture Division in the University Office Department were honored for their distinguished efforts at work and high achievement.

The celebration included planting trees of various types in the university gardens by the University President, his assistants, and a number of university employees.

While Professor Ali Abdul Hussein Al-Dhalimi, Director of the Scientific Affairs Department, explained that all university colleges and institutes have prepared various programs to celebrate this day, which included scientific and awareness seminars, exhibitions, charity markets, workshops, afforestation campaigns, scientific lectures, and the publication of posters inside and outside university buildings.





- **Participation in launching the national project for digital documentation of architectural heritage in Iraq.**

The President of the Al-Furat Al-Awsat Technical University and the Director of the Department of Construction and Projects at the University Presidency, Dr. Muhannad Abdel-Zahra Al-Khaqani, participated in the first official meeting to launch the national project for digital documentation of architectural heritage in Iraq, which was hosted by the University of Technology, with the participation of the Scientific Undersecretary of the Ministry of Higher Education, Professor Dr. Haider Abd Dahd, a number of university professors, a team of engineers in the Prime Minister's Office, and the Technical Affairs Department of the Intelligence Service.

The project is a pioneering national initiative to document important historical buildings and historic city centers as an essential step to strengthen Iraq's historical and heritage identity and preserve the material and historical heritage of Iraq, as the launch will be in the first phase. For the project to document the architectural heritage at the site of the purified Alawite Shrine and the Old City in Najaf. It is pointed out the importance of this project, which is the first of its kind in Iraq, especially since it is being implemented with local expertise and competencies. He stressed at the same time the university's readiness to put all its capabilities into supporting this important project.





- Completed projects and projects in progress



The most important completed and in-progress projects adopted by the university, which were recently implemented by the engineering staff in the Department of Construction and Projects at the University Presidency and its formations to develop the university environment and infrastructure.

One of the most important projects under implementation includes the project to establish the largest complex of research laboratories in the engineering, medical, health, agricultural, renewable energy, and nanotechnology specializations, in addition to the Dome Hall project for major meetings, the central library project, the sports stadium complex project, which includes eight various stadiums and their accessories, and the project to increase spaces.

The green area is about ten thousand square meters, the project of planting a thousand palm trees in the university's formations, which was launched under the slogan "Honor your aunt the palm tree," the grand celebrations square project, and the student club project on the university campus in Kufa.

Among the most prominent projects that were completed earlier are the scientific departments building, the smart halls building, the continuing education center, the



SDG 13: Climate Action

main information building, the inner courtyard of the university presidency, and the Christmas Tower building, which includes the electronic calculator departments, scientific affairs, missions, cultural relations, and bicycle stations in the context of the initiative.

Green transportation, student clubs in a number of university formations, the scientific building, the central library in the Najaf Technical Institute, the medical departments building, the administrative departments building in the Babylon Technical Institute, the study halls building in the Musayyib Technical College, the aircraft technology department workshop in the Najaf Engineering Technical College, and the pharmacy and student affairs department building. And the electronic calculator center at the Kufa Technical Institute, as well as listed study halls, halls for continuing education and others for conferences, celebrations and discussions, scientific department buildings, study halls and the central courtyard at the Samawah Technical Institute and the scientific departments building at the Rumaitha Technical Institute, as well as rehabilitation and maintenance projects and the construction of portals that included all university campuses.

The university is environmentally friendly:

The university has taken great and important steps to be environmentally friendly and strives hard to preserve it in the university presidency site and all its sites in the governorates of the Middle Euphrates, and to protect it in all its formation sites, as the university's students and employees work, through several activities, to spread the culture of the environment in its various sites in a practical manner, and globally through patents. Research and studies to encourage its preservation and protection at the present time and in the future, according to the following:

- University environment Universities compete to have a decent, attractive and comfortable university environment for their members and students through the following:

Green spaces:

- Increasing green spaces is one of the most important features of the university environment so that it is an attractive and decent environment and brings comfort and reassurance to the souls of students and associates, as the increase in the number of students and infrastructure requires that it be accompanied by the presence of green spaces in order to achieve the required environmental balance within.



SDG 13: Climate Action



Al-Furat Al-Awsat Technical University provides various local education programs & campaigns on climate change risks, impacts, mitigation, adaptation, impact reduction and early warning.

- climate change disasters, which may include the displacement of people both within a country and across borders, working with the government thereby organizing annual educational short courses or workshops that explain local Energy & climate change disasters and what should be done to prevent or reduce their impacts and established the following projects

In addition to planting fruit trees during the year 2022, at the Kufa site, (66) palm trees were planted, and at the Karbala site, olive and palm trees were planted, with a total of (25) trees, and at the Musayyib Technical College, (26) fruit trees were planted, in addition to planting ornamental plants in Plastic houses and drought-resistant varieties.

As for the Administrative Technical College, (100) various trees were planted, including (20) palm trees, and a flower exhibition was held. The Kufa Technical Institute planted more than (100) trees, including (25) palm trees, (15) orange trees, and (15) pomegranate trees in addition. As for last year, the Babylon Technical Institute planted evergreen flowers and seedlings, with a number of (500) seedlings, an increase over the previous year. The Diwaniyah Technical Institute planted fruit trees, shrubs, and seedlings for flowering, with a number of (650) trees, and the Medical Technical College planted three gardens surrounding the buildings. The college is endowed with flowers, evergreen shrubs, thallus, and (32) palm trees. As for the Najaf Technical Institute, it has



SDG 13: Climate Action

created a palm grove containing (650) palm trees, in addition to planting (1,100) seedlings of flowers and plants.



- A promising initiative to embody the concept of a productive university and achieve sustainable development: <https://atu.edu.iq/?p=21503>



Within the framework of the directives of Al-Furat Al-Awsat Technical University to embody the concept of a productive university and work to achieve sustainable development goals, the President of the University followed the project on fisheries breeding within the university campus in Kufa, as well as other agricultural activities surrounding the project. It should be noted that The project is being implemented by the technical staff in the Department of Diwan Affairs

at the University Presidency in coordination with the Department of Construction and



Projects and with continuous field follow-up by the President of the University. Al-Zuhairi, for his part, indicated in an interview with the university that the project aims, in addition to what was mentioned above, to improve the university environment in terms of By increasing green spaces and water bodies on campus

- **Al-Furat Al-Awsat Technical University opens several reconstruction projects at Al-Musayyib Technical College:**
<https://atu.edu.iq/?p=22945>

For a sustainable university environment Within the context of the campaign taking place at Al-Furat Al-Awsat Technical University to rebuild the infrastructure and rehabilitate the university environment, the President of the University visited Al-Musayyib Technical College, accompanied by the scientific and administrative assistants of the University President, the deans of colleges and institutes, and the directors of departments



in the university presidency, and they were received by the Dean of the College. Dr. Ali Wadi Al-Zubaidi, the advanced staff, and the college's students. It is noteworthy that the rehabilitation and reconstruction work included the rehabilitation and reconstruction of the study hall complex building, which includes (16) sixteen classrooms, three of which are for postgraduate students, and 12 twelve halls for undergraduate students. And a hall for the Student Activities Division. The hall of the late Sheikh Dr. Ahmed Al-Waeli was opened for discussions and seminars after its rehabilitation. It is reported that work resumed at the beginning of July of this year with direct implementation by the engineering and technical staff at the college and with direct supervision and support from the university presidency and the Department of Construction and Projects. Al-Zuhairi, for his part, held an expanded meeting with the heads of departments and officials of the divisions and units, in which he stressed the necessity of working in a team spirit and consolidating the core values adopted by the university through a culture of mutual respect, transparency and justice, enhancing belonging and loyalty to the institution, encouraging the creative and distinguished, adopting creative ideas and initiatives, and activating the scientific research movement. Al-Zuhairi, in his speech, directed the need to pay attention to the university environment, including halls, workshops, laboratories and other service facilities, which make the institute a model and attractive university environment through sound and rational management of material and human resources. He also pointed out that the reputation of the educational institution is the basis for everything and is one of the standards for international classifications. On the sidelines of the conference, an exhibition of drawing and plastic arts was opened and the members implementing the projects and the distinguished ones were honored.



- Opening of the administrative departments building after rehabilitation and the celebrations square: <https://atu.edu.iq/?p=22842>



#For_a_sustainable_university_environment

In the context of the campaign taking place at Al-Furat Al-Awsat Technical University to reconstruct the infrastructure and rehabilitate the university environment, the President of the University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, inaugurated the administrative departments building and the grand celebration square at the Najaf Technical Institute in the presence of the scientific and administrative assistants of the university's

president, the deans of the Najaf and Kufa formations, and the department directors. At the University Presidency, they were received by the Dean of the Institute, Professor Dr. Haider Hassan Al-Abdali, the assistants, heads of departments, officials of divisions and units, and a large group of students. It is noteworthy that the rehabilitation work included equipping and rehabilitating (3) three specific computer laboratories with a capacity of (120) one hundred and twenty portable calculators with high specifications, which were provided with specialized programs to train primary and graduate students and develop their skills in the labor market after graduation. The research groups laboratory was also rehabilitated and equipped with computers. Portable, with high technical specifications, it was connected to an internal network for the purpose of supporting researchers at the institute to complete their research, as well as holding workshops and seminars with scientific researchers, and research seminars with international universities through video conferencing. A large celebration arena was also opened with an area of approximately (1,500) thousand and five hundred square meters, which includes green spaces and terraces for student seating, in addition to a terraced platform for holding graduation ceremonies and student activities. It should be noted that work resumed at the beginning of June of this year with direct implementation by engineering staff. And technical training at the institute, under the direct supervision and support of the university presidency, and high standards were adopted in equipping laboratories with modern technologies to achieve high-quality education. On the other hand, on the sidelines of the opening, the university president gave a speech in which he praised the efforts made to improve all aspects of performance, pointing out what was achieved during the three years. In recent years, at various levels, with the combined efforts of all scientific, administrative and supportive circles, he called on his students to make more efforts to acquire the necessary skills that qualify them in the labor market and to be dedicated to performing the duties assigned to them to achieve the desired goals and success. Al-Abdali, for his part, directed his thanks and appreciation to the presidency. The university extended its support to all formations, including the Najaf Technical Institute, praising all the efforts that resulted in these achievements.



Productive training projects:

Most of the university's sites are characterized by having large areas of agricultural land, which it works to exploit by establishing agricultural projects to train students and obtain plant and animal products to contribute to filling part of the local need. At the University Presidency site, empty and deserted lands with an area of (8) dunums were exploited to create a model orchard with an area of (4) dunums, which includes various types of palm trees to produce types of dates such as barban, khastawi, shukur, barhi, khadrawi, al-Zahdi, and al-Maktoum. Creating a fish lake on an area of (825) square metres. And (2) plastic houses with an area of (468) square meters, and in another place also belonging to the University Presidency site in Kufa, a palm farm was established on an area of (2) acres to grow (66) palm trees and various types, based on an initiative launched by the President of the University (Honor your aunt Al-Nakhla) to plant (1000) palm trees in all university sites, and at the Al-Musayyab site, large areas were cultivated for the purpose of training students in primary and postgraduate studies. Several projects were established to grow vegetable crops and field crops during the annual seasons or using greenhouses, and to cultivate medicinal plants to extract medically effective substances. Among them, the production and propagation of plants free of diseases and viruses, a field for growing ornamental plants, and the Al-Musayyib Technical Institute took advantage of the spaces it owns to create a field for growing the poultry crop, a field for growing white mushrooms, a project for laying hens, and a project for raising sheep and goats. As for the Kufa Technical Institute, with its large agricultural areas and the presence of agricultural specializations for study and for the purpose of training students, it established a field to grow the crop (cucumbers). The university thus contributes, through these projects, to achieving the thirteenth goal (climate action) of the seventeen sustainable development goals, by increasing green



spaces and eliminating desertification.



Reducing the emission of harmful gases to the environment:

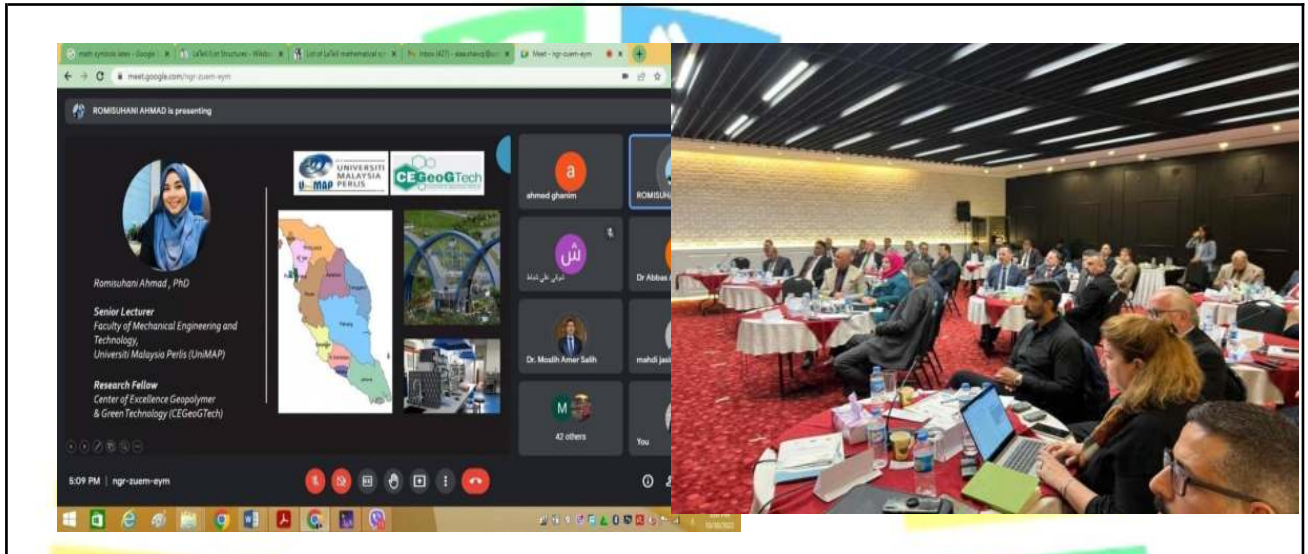
Today, the world is witnessing the problem of climate change as a result of the increasing emission of harmful gases into the environment that are generated through manufacturing processes and the use of devices, equipment, and means of transportation on the one hand, and the failure to protect and preserve the environment on the other hand, which has led to failure to achieve environmental balance, and environmental pollution has a negative impact on all living organisms. On planet Earth, the university is working to reduce the emission of harmful gases by spreading the culture of reducing or reducing them through scientific activities. More than (25) workshops, seminars, and courses have been held for university members and students on reducing or reducing emission, and a number of research and studies have reached (14) research. It addressed the issues of harmful gas emissions, as well as the various university formations carrying out several activities, including holding seminars and workshops for members of the community and distributing awareness posters about harmful gases and the necessity of limiting or minimizing them because of their negative damage to the environment.





SDG 13: Climate Action

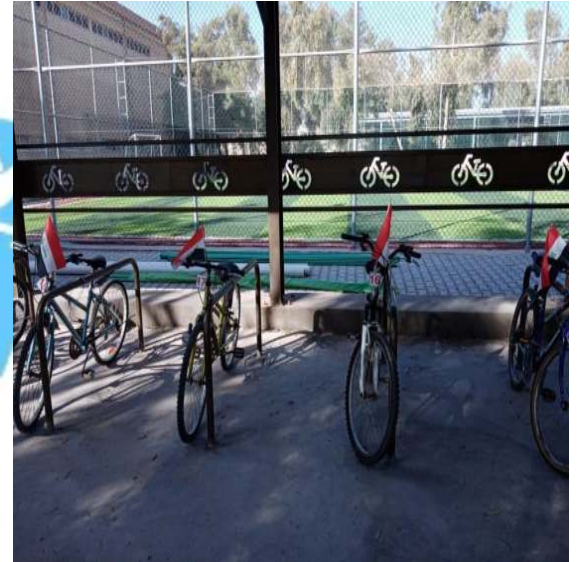
-Al-Furat Al-Awsat Technical University has different Climate Action plans, shared with local government and local community groups by:



1. Workshops & Courses on Sustainability & Climate <https://t.me/atu2020>
<https://youtu.be/reclyi3hnpE> <https://atu.edu.iq/?p=19409>
<https://www.facebook.com/79adnan/videos/1151355189021216/>
<https://atu.edu.iq/?p=18705> (Al-Furat Al-Awsat Technical University,Iraq)



2. Solar EnergySolar Power Production and Distribution (Al-Furat Al-Awsat Technical University,Iraq)



3. Green Transporting (Al-Furat Al-Awsat Technical University, Iraq)



4. wind energy (Al-Furat Al-Awsat Technical University, Iraq)



5- The above two photos are ATU's' official letter urging ATU to cooperate with all governmental and non-governmental organizations and private companies and local and national communities to provide all necessary technologies required in using solar energy for electricity generation. (Al-Furat Al-Awsat Technical University, Iraq)

For the purpose of protecting the environment, the university deals with waste resulting from teaching medical and chemical materials for educational purposes by burying them in correct ways in accordance with the instructions of the Ministry of Health and Environment and keeping other waste in containers of different internationally recognized colors for sorting, and spreading the culture of not merging waste into one container and placing it in the place designated for it according to color. To preserve the environment from its effects and benefit from recycling



- Additional Evidence

A master's thesis at Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University discussed the use of a new technology to improve the efficiency of Iraqi gas power plants and ensure their operation in dusty climatic conditions by using electrostatic filter technology based on intelligent control.

The study presented by the student, Muhammad Qasim Fadel, aimed to use the electrostatic precipitator as a pre-filtration stage with intelligent control and air quality monitoring along with a pressure indicator before and after the air intake unit for gas stations using the Internet of Things system.

The study showed improving the efficiency of the gas stations by using the electrostatic precipitator (ESP) technology to reduce air pollution from dust particles, especially from the areas surrounding the air intake system units of the gas power plants. electrical.

The thesis concluded that the electrostatic filter system should be strengthened by filtering the intake units of gas power plants, ensuring their operation during dusty conditions without the pressure drop that may occur in conventional filters due to the presence of fine dust particles.



SDG 13: Climate Action



In his study, the researcher recommended that ESPs be combined with other air filtration systems, such as HEPA filters or scrubbers, to create a more comprehensive and effective air filtration solution for gas turbine intake air systems. A master's thesis at Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University researched the use of the Internet of Things to control and monitor the production of electric energy in the smart solar energy system.

The thesis presented by the student, Bashar Nouri Marza, aimed at building a system that detects faults in the solar system and analyzes them periodically using sensors and smart monitoring devices that are connected to each photovoltaic panel.

The thesis discussed the possibility of sending measurements and data periodically to a central server that works with the Internet of Things system in order to detect faults and correct them as soon as possible, which greatly helps to improve the efficiency of solar panels.

The thesis resulted in building a system that detects errors in the solar system and analyzes them periodically using sensors and smart monitoring devices that are connected to each photovoltaic panel, as well as sending data periodically to a central server of the Internet of Things in order to detect faults and correct them as soon as possible, and control the Distributing electrical loads in the system, which gives priority to maintaining important



SDG 13: Climate Action

loads and isolating secondary loads, and monitoring the state of energy storage by monitoring the temperature and charging status of the batteries.

The researcher recommended the design of an integrated and advanced system for diagnosing and controlling faults in smart networks and modern commercial systems to improve their performance, which greatly improves the efficiency of solar panels in the integrated system.



Within the framework of the orientations of Al-Furat Al-Awsat Technical University to achieve the goals of sustainable development and the strategic plan of the university, which included internationalization by hosting eminent professors from reputable international universities. The international workshop was held on the university campus in Kufa. (The uses of solar systems, their objectives and challenges) in the presence of the President of the University the Scientific Assistant, deans of related colleges and institutes, in addition to researchers specialized in renewable energies and postgraduate students.

It is noteworthy that Dr. Qamaruzzaman Sufyan is a professor in the field of renewable energy at the Solar Energy Research Institute, which is one of the leading centers for research and development in the field of renewable energy technology at the National University of Malaysia. He has more than 900 research papers in journals and conferences. He is a



SDG 13: Climate Action

founding member of the Malaysian Institute of Energy, and a member of the UK Global Network for Renewable Energy.

The workshop touched on mathematical models of solar radiation, solar water heating systems supported by tanks, solar distillers, solar coolers, drying systems supported by solar systems, grid-connected solar panels, solar panels, hybrid solar collector and solar hydrogen production systems



- Within the framework of the university's directions and its endeavor to improve the educational and service reality, adopt renewable energies and achieve the goals of sustainable development, the President of Al-Furat Al-Awsat Technical University inaugurated the Department of Renewable Energy Technologies, which was created recently, in addition to an integrated CNC workshop at the Technical Institute of Karbala.

The department includes laboratories equipped with all the necessary requirements of devices, furniture and equipment that make them model laboratories that provide high-quality training for the drum, as well as a CNC workshop that provides educational services to students in addition to technical services for the university's uses in several fields, as the university and all its formations are witnessing a comprehensive campaign in the field of reconstruction The construction and rehabilitation of the infrastructure makes it in need of several works provided by this workshop, including wooden and metal partitions with





SDG 13: Climate Action

special designs and decorations, as well as identification panels, indication points, and other uses.

Al-Zuhairi gave a speech on the occasion of the opening, in which he indicated the importance of opening this department, which simulates the requirements of the labor market, as the main goal of the university is to provide the student with the ability and skill and to adopt the philosophy of technical education on the practical side, as it constitutes about 60% to 70% of the academic vocabulary.

The President of the University emphasized that the University has attached importance to such departments and laboratories related to the implementation of the seventeen (17) SDGs17 goals announced by the United Nations in its 2030 plan, as the University and all formations have embarked on implementing these goals in many initiatives.

Al-Zuhairi also inaugurated an exhibition of students' and professors' scientific products and research projects. He reviewed some of the scientific literature and books written by the Institute's affiliates to support the scientific arena, in addition to the patents and scientific certificates obtained by the affiliates during their participation in international scientific conferences.

In the same context, the President of the University inaugurated the new entrance to the Institute, which was completed recently, in which the electronic system was adopted to facilitate the entry of students, guests and visitors.

On the other hand, the Dean of the Technical Institute in Karbala, Professor Dr. Fadel Muhammad Zahir, presented his thanks and appreciation to the university presidency for the support he gave to all formations, praising all the efforts that resulted in achieving these achievements.

In conclusion, the President of the University honored a number of associates who had a distinguished role in the completion of scientific and urban projects at the Institute, wishing everyone continued success in their work



SDG 13: Climate Action

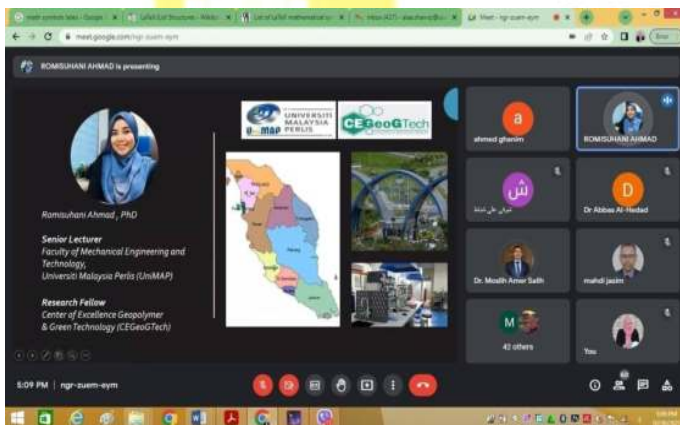
Al-Awsat Technical University holds an electronic workshop (webinar) in partnership with Malaysia Perlis University, entitled Geopolymer Concrete and Green Building Materials.

Under the auspices of the President of Al-Furat Al-Awsat Technical University the Department of Scientific Affairs at the Presidency of the University, in cooperation with the Technical Institute of Babylon, held an electronic workshop (webinar) in partnership with the University of Malaysia Perlis, entitled (Geopolymer Concrete and Green Building Materials).

The scientific assistant, Prof. Ahmed Ghanem Waday, delivered a speech in which he emphasized the university's great interest in achieving sustainability and its goals in many areas such as renewable energy, reducing carbon emissions, using solar energy and smart buildings, and called for more coordination and cooperation with international universities.

We draw your attention to the fact that (details of the workshop and the lecturers are in the attached file). After completing the two lectures, the discussion was opened and questions were asked, which were answered by the two lecturers.

The workshop was moderated by Assistant Professor Dr. Musleh Amer Salih from the Babylon Technical Institute.





SDG 13: Climate Action

- A master's thesis was discussed at Al-Musayyib Technical College, Al-Furat Al-Awsat Technical University (Design and Implementation of a DC-DC Converter with a High Voltage Lift in a Photovoltaic System)

By the student Ali Yaqoub Hamzah, in the presence of the Dean of the Faculty of Dr. Ali Hassan Al-Zubaidi, the thesis aimed to design and implement a high-speed DC-DC converter with a high-voltage duty cycle, very low, suitable for photovoltaic systems under critical weather conditions,

The thesis dealt with the implementation of analysis and design procedures for the network integration of photovoltaic systems, and the thesis showed that the DC-DC Non-isolated high-lift converter achieves reliability and efficiency of up to (98%) by reducing losses in the switches, as well as to overcome the reverse currents that takes into account only the fundamental harmonic which eliminates all other harmonics,

In his thesis, the student recommended the need to apply this portable in clean energy applications to obtain the highest capacity of the solar panels.





SDG 14: Life Below Water

LIFE
BELOW WATER





SDG 14: Life Below Water

- The university and all its sites work to rationalize the use of water to meet its needs except for the personal use of associates and students or for watering gardens and agricultural fields and the university has implemented (70) courses and workshops to reduce and rationalize the use of water, as it adopts the policy of using raw water by connecting pumps on rivers and delivering it for the purpose of watering gardens and agricultural fields, especially in formations where there are agricultural specialties.
- The Kufa Technical Institute and the Diwaniya Technical Institute have worked on installing pumps for the purpose of watering gardens, agricultural fields and trees even in the middle islands of the public street adjacent to its borders as a contribution to community service, while in the Technical Engineering College of Musayyib has been established to reclaim the agricultural lands of the College, while the Technical Institute of Karbala follows the policy of reducing the consumption of water quantities through the drilling of artesian and driving wells and reducing the watering of crops by using irrigation with sprinklers and drip
- As for the Technical Institute of Babylon, it uses the water that is mixed with a pull from the rivers by erecting pumps to water the gardens inside the Institute and the residential neighborhood of the Institute, and the Technical Institute of Musaib uses the dampened water as well as watering with sprinklers and drip to reduce the waste of water as well as the use of wastewater after treatment for watering the plantations. The University has held a number of (12) workshops, seminars, and courses on rationalizing the use of water and preserving it from waste, as well as publishing posters on not wasting water and preserving it, and the University's directives emphasize the continuous maintenance of water.





- **Al-Furat Al-Awsat Technical University...a quest to achieve sustainable development and an embodiment of the concept of a productive university...: <https://atu.edu.iq/?p=21731>**



Within the framework of the directives of Al-Furat Al-Awsat Technical University to embody the concept of a productive university and work to achieve sustainable development goals, the follow-up of the President of the University continues for the Al-Bustan model project within the university campus in Kufa. The Al-Bustan project includes various types of palm trees, as it has currently been restored Rehabilitating it and installing an irrigation system that uses modern irrigation technology, in addition to other agricultural activities surrounding the project. The project also includes a lake for raising fish wealth, with a surface water area of (700) seven hundred square meters and a depth of (6) six meters. It should be noted that the project was implemented from Before the technical staff in the Department of Diwan Affairs at the University Presidency, in coordination with the Department of Construction and Projects and with continuous field follow-up by the President of the University, Al-Zuhairi, for his part, indicated in an interview with the university that the project aims, in addition to what was mentioned above, to improve the university environment by increasing the spaces. Green spaces and water bodies on campus.

- **Investing in clean energy is our path towards sustainable development: <https://atu.edu.iq/?p=23220>**

The College of Health and Medical Technologies, Kufa, one of the formations of Al-Furat Al-Awsat Technical University, organized a scientific symposium on (clean water and sanitation) with the participation of researchers and specialists. The symposium aims to focus on clean water, sanitation and water sources, which is one of the goals of sustainable development, identifying the types of water and adopting methods for using sanitary hygiene

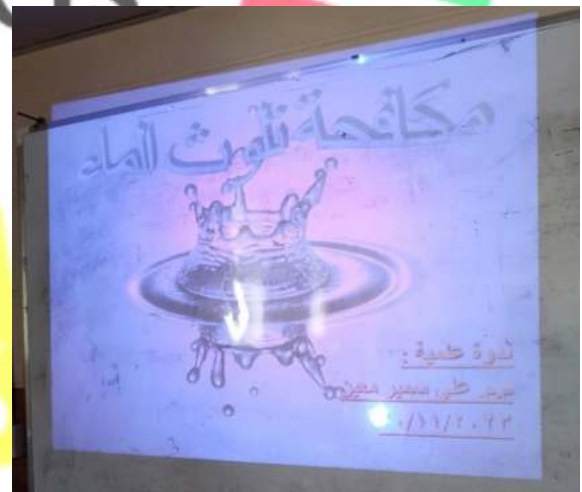


methods. It was delivered by Mr. Prof. Dr. Ahmed Adnan Abdel Amir. It included several topics, including water, types of water, healthy water and hygiene.

Conservation and sustainable use of oceans, seas and marine resources for sustainable development

Objectives include reducing marine pollution; conserving coastal ecosystems, coastal marine areas, and fish stocks; Ensuring small-scale fishermen's access to markets; Protecting marine biodiversity and Environmental sustainability aims to ensure adequate protection of watersheds, groundwater, freshwater resources and their ecosystems. To achieve this goal, the university implemented the following activities:

The university's formations organize various activities to educate about the life of living organisms, urging the subject and the necessity of dealing with water sources through fishing operations in proper ways and not using unfair methods because they negatively affect living organisms and waste fish wealth by addressing the laws, regulations and instructions related to this and distributing posters in volunteer campaigns inside and outside the corridors of the university. Preparing theses and dissertations on life under water. The number of activities, including seminars and workshops, reached (12) activities and research on life under water, and (2) master's theses.



Workshop on life under water



2- He resided The Department of Plant Production Technologies, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College, held a course on (Tigris and Euphrates water pollution, its causes and treatment), The course, which lasted for five days, dealt with knowing the importance of water and what pollution is, knowing the natural and industrial sources of pollution, and the effect of pollutants on water. The course also touched on methods of treating pollution, using modern technologies, and following several recommendations to reduce the problem of pollution.

Both attended the session

Prof. Dr. Ibrahim Mardi Radi

M. Heba Ali Hussein

M. Magda Mohamed Hassan

3- Publishing a number of research papers concerned with water and environmental management, as shown below:

Environmental Assessment Using Canadian Water Quality Index for Hilla River in Babylon Governorate, Iraq	1
Estimations of chemical contents of the musculoskeletal system in two cyprinid fishes Arabibarbus grypus and Leuciscus vorax	2
Potential impact of drought on Mikkes River flow (Morocco)	3
The Effect of Irrigation Water Salinity, Organic Matter, and Zinc Nano-Fertilizer on the Productivity of Sunflower (Helianthus annuus L.)	4
Efficiency of Silver Nano Particles in Removing Escherichia coli ATCC 25922 from Drinking Water Distribution Pipes Escherichia coli ATCC 25922 from drinking water distribution pipes	5
SOIL POLLUTION STANDARDS WITH HEAVY METALS IN SOILS OF DIFFERENT USES IN BABYLON PROVINCE	6
SOIL POLLUTION STANDARDS WITH HEAVY METALS IN SOILS OF DIFFERENT USES IN BABYLON PROVINCE	7
A new framework for assessing the sustainability of municipal solid waste treatment techniques applying multi-criteria decision analysis	8
Estimation of Muskingum's equation parameters using various numerical approaches: food routing by Muskingum's equation	9

4- Establishing an awareness campaign to raise awareness of World Water Day, targeting students and employees of Al-Musayyib Technical College. The Department of Building and Construction Technologies held an awareness campaign in order to raise the awareness of Iraqi citizens about the critical situation their water resources are going through, and to enhance their sense of responsibility to alleviate the severity of this crisis.



SDG 14: Life Below Water





5- A researcher from Al-Musayyib Technical College (Zeina Hussein Ali) obtained a master's degree for her thesis entitled (Improving the quality of drinking water using distribution pipes coated with silver nanoparticles). The thesis dealt with the use of the latest techniques for treating and disinfecting drinking water, which is the technique of partial coating with silver nanoparticles. The study aims to test the performance and capabilities of AgNPs as antibacterial disinfectants, as two types of bacteria most prevalent in drinking water pipes were tested: Escherichia coli and Pseudomonas aeruginosa. This study dealt with the use of the latest drinking water treatment and disinfection techniques, which is the technique of partial coating of drinking water pipes with silver nanoparticles (AgNPs) (as drinking water may be exposed to contamination when it passes through water distribution pipes due to cracks in the pipes or repair, construction and connection processes. The results obtained from the laboratory work showed The AgNPs coating had clear effects against both of these types of bacteria, as high rates of inhibition were recorded, reaching 100% after a few minutes of



passing the bacteria-laden water through PVC pipes partially coated with silver nanoparticles. The exposure time and AgNps concentration had a direct effect. On the rate of bacterial inhibition. In her study, the researcher recommended emphasizing the need to conduct further studies on the long-term work efficiency of tubes coated with AgNPs, in addition to developing a feasibility study to determine the economic cost of the coating process with silver nanoparticles.



6- A research study was prepared on water technologies and the drip irrigation organization in Al Salam Residential Complex, and this study was submitted to Al-Sabtain Contracting Company.

7- The Department of Building and Construction Technology Engineering, in cooperation with the Continuing Education Unit at Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University, and in cooperation with Tanaka University in Malaysia, organized an electronic workshop on Empowering the Future: Innovations in Sustainable Power Generation
Empowering the Future: Innovations in Sustainable Energy Generation

The workshop aimed To introduce participants to the latest innovations and developments in the field of sustainable energy generation and to promote knowledge exchange, cooperation and communication among participants with the ultimate goal of promoting and accelerating the transition towards a more sustainable and environmentally friendly energy generation system.

The workshop included several topics, the most important of which are: Presenting innovative technologies and solutions, discussing policies and regulatory frameworks, in addition to addressing challenges and obstacles, enhancing cooperation and partnerships, raising awareness and disseminating knowledge.

Dr. Firas Bassem Ismail, Head of the Energy Research Department from Tanaka University in Malaysia, and Dr. Haider Fawzi Al-Shukarji from Al-Musayyib Technical College, lectured in it, and it touched on various topics related to sustainable energy generation and renewable energy, energy storage solutions, grid integration and smart grids, policies and regulatory frameworks, Sustainable energy generation in developing countries, social and environmental impacts, financing and investment opportunities, as well as future innovations and trends.

Permanent maintenance of the RO water filtration stations at the institute. There are two unit stations that provide a thousand liters per hour and another that provides 250 liters per hour in the internal departments of the



SDG 14: Life Below Water

institute, and also provides a large number of water sprinklers for the gardens.



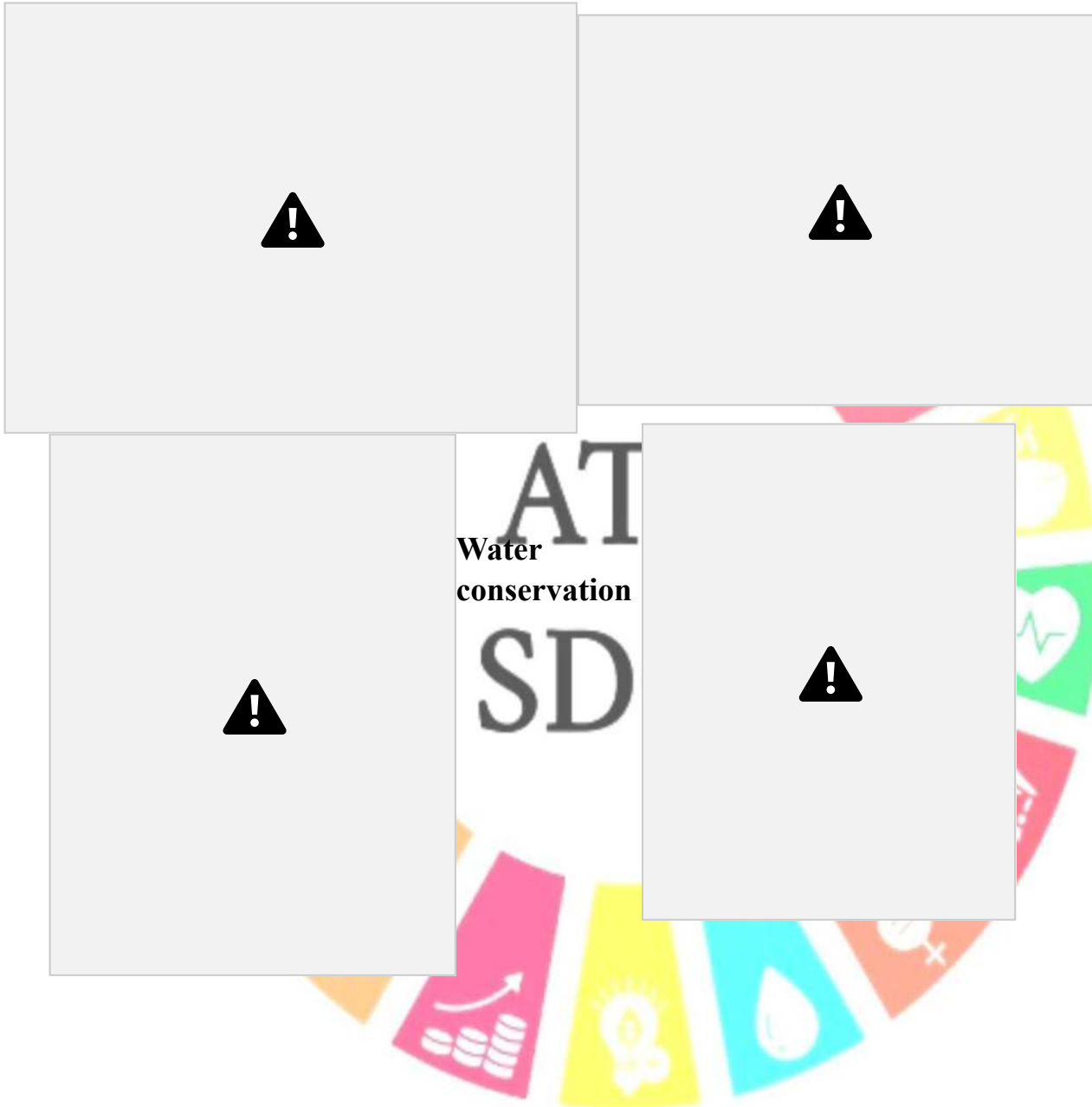
Interest in afforestation campaigns aimed at expanding green spaces and improving the local environment at the institute





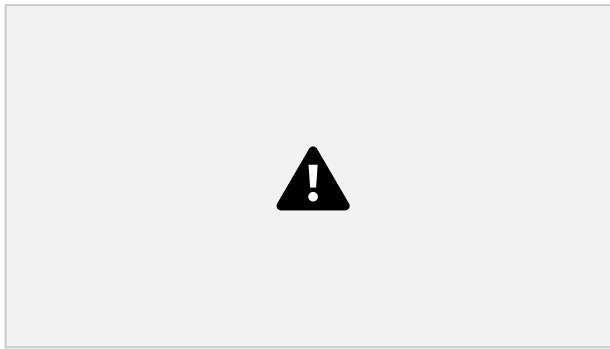
SDG 14: Life Below Water

cleanliness





SDG 14: Life Below Water





SDG 14: Life Below Water



SDGs

- Opening the Zamzam Potable Chilled Water Square and Station project and the computing laboratories building on the university campus in Kufa: <https://atu.edu.iq/?p=22565>



Within the framework of the university's directions and its endeavor to improve the educational and service infrastructure, the President of AL-Furat AL-Awsat Technical University and in the presence of the Governor of Najaf Al-Ashraf, Dr. Majid Al-Waeli, inaugurated the Zamzam square and station for potable chilled water on the university campus in Kufa and the computing laboratories building at the Institute Kufa.. The project was started at the beginning of July of this year by the engineering staff in the Department of Construction and Projects at the University

Presidency and the Kufa Technical Institute. The project includes construction and



installation of a water filtration system using RO technology and a cooling system to provide chilled water for students with a capacity of 1000 liters in clock, in addition to rehabilitating a square surrounding the station with an area of 1,600 square metres, in addition to other accessories such as student seating terraces, which were equipped with sockets for charging electrical devices, in addition to night lighting for the site. It should be noted that the project is the second of its kind on the university campus in Kufa, where it was previously opened. Al-Kawthar potable water station at the end of 2021. The computer laboratories building was also opened at the Kufa Technical Institute, which includes four laboratories that were equipped with all the necessary requirements of devices, furniture, and equipment that make them model laboratories that provide high-quality training. This was witnessed by the opening ceremony, which was attended by Messrs. Assistants, a number of deans of formations and department directors at the University Presidency, and members and students of the Kufa Technical Institute... witnessed the honoring of the Mr. Dean of the Kufa Technical Institute, Professor Dr. Fadel Sami, the Mr. Director of the Construction and Projects Department at the University Presidency, Dr. Muhannad Al-Khaqani, the Mr. Director of Internal Departments, Dr. Hassan Hadi, and the Director of Diwan Affairs, Mr. Muhammad Abbas and the engineering and technical staff that participated in implementing the project.

- It should be noted that the university has implemented several infrastructure relying on self-financing, namely the establishment of a rainwater drainage network, the project of roofing the middle space and the main gates, the project of roofing the garage, the work of sidewalks in the garage for the streets surrounding the buildings, the project of making fountains and gardens and the establishment of the external fence of the headquarters of the university presidency
- At the campus, all sites of the university have separate sewerage systems. to collect water from different sources and then treat it to be ready to use on the campus.
 - 1- Rainwater harvesting: is a perfect and easy source to collect rainwater in the university by certain systems of pipes to store it in big tanks and then treat it to use later.
 - 2- Lake (area: 500m²): is used for three purposes in the university; first: to water the plants & animals
second: to keep the environment and third: to conserve water from different sources.
 - 3- Ground Water Tank: Is an additional program to conserve water from different sources as underground water, rainwater ..etc in the university.

-



SDG 14: Life Below Water



Water Conservation (Al-Furat Al-Awsat Technical University,IRAQ)



Water Conservation - In Ground Water Tank
(Al-Furat Al-Awsat Technical University,IRAQ)



Water Conservation – Lake (Al-Furat Al-Awsat Technical University,IRAQ)

- The university relies on programs to reduce water consumption in the toilets and buildings by switching faucets to automatic faucets to ensure that the amount of water used is reduced and that it is automatically closed after use and that water is not wasted.



SDG 14: Life Below Water



Water Efficient Appliances Usage (Al-Furat Al-Awsat Technical University,Iraq)



Drip Irrigation (Al-Furat Al-Awsat Technical University,Iraq)

- Establishing fish lakes at university formation sites in accordance with international standards for fish farming
- Holding seminars, workshops, and discussion panels on the necessity of preserving living organisms in water in university formations and in reality.
- Education about stopping overfishing because of the harm it causes to the rest of the living organisms that live in the waters of the oceans, seas and rivers.
- Cleaning the rivers near the university's formations for the purpose of preserving the water and the diversity of organisms in it



SDG 15: Life on Land





Organizing environmentally friendly festival activities

Al-Furat Al-Awsat Technical University organized the annual Environmental Friendly Festival, where emphasis was placed on...

1. The importance of paying attention to the environment, especially the university environment, because of its positive impact on the educational and training process
2. Pointing out the university's efforts to invest in available lands to reclaim them and turn them into green areas
3. Planting many fruitful and evergreen plants within the university

The term pollution, its types, causes, and the effects of each type were also clarified, a number of annual statistics related to this topic were presented, and the students presented a representative scene simulating the effect of smoking on the health of the individual and society.

The festival concluded with an event presented by the department's students, during which they displayed awareness and guidance posters inspired by the occasion.

After that, the rest of the activities were opened, which included providing free medical examinations, a charity market, a display of scientific posters, and various events.





SDG 15: Life on Land





SDG 15: Life on Land

Protect, restore and promote the sustainable use of terrestrial ecosystems, sustainably manage forests and combat desertification, halt and reverse land degradation and halt biodiversity loss.

Goals include sustainable management of freshwater, mountain and forest ecosystems; Combating desertification; Stop the loss of biodiversity; Combating illegal fishing and trafficking in protected species. Environmental sustainability aims to ensure the sustainable use and preservation of lands, forests, water, wildlife, fish and water resources. To achieve this goal, the university implemented the following activities:

The university continues its academic activities From research, master's theses, and these Doctorate workshops and seminars that address topics on biological diversity, as the Al-Musayyib Technical College saves and preserves various forms of biological life by creating shades through volunteer campaigns with the contribution of students and professors, such as a shade for cut flowers, a shade for propagating ornamental plants, a shade for maternal plants, and a shade for medicinal plants, and discussing a number of master's theses. And doctoral theses for the year 2023 in the college that shed light on biodiversity.



Among the workshops and seminars that were carried out on illegal immigration, posters were distributed to raise awareness among students and associates, on the problems that the agricultural sector suffers from in Iraq, and on Chemical analysis Soil and its role in the agricultural field, and the genetic diversity of seeds and cultivated plants and how to preserve them, and holding a workshop on local breeds of plants that are at risk of extinction.



SDG 15: Life on Land

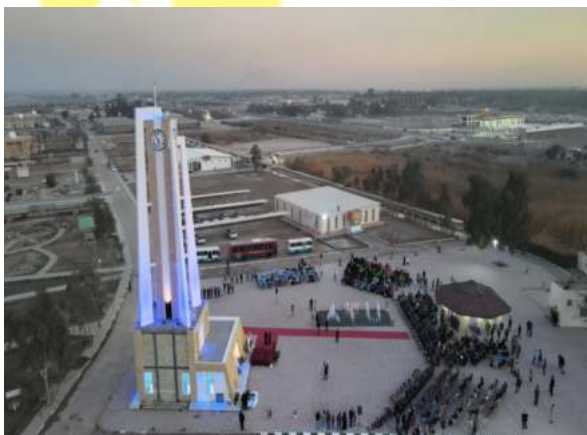




The establishment of training fields for agricultural specializations (plant and animal) in the university formations, as these projects produce agricultural and animal products contribute to filling part of the local need of the community's members and provide financial resources for the formation that it uses to cover its operational and investment expenses, which helps it establish and rehabilitate the infrastructure and provide the requirements for the university environment. Suitable for its students and members.

Moreover, this is an implementation of the fifteenth goal of the sustainable development goals, "Life on Land," to preserve environmental diversity. These projects are based on the type of production:

- **As part of the activities of the first annual celebration of the birth anniversary of the Lord, the Commander of the Faithful (peace be upon him)... Al-Furat Al-Awsat Technical University opens the Birth Tower: <https://atu.edu.iq/?p=20217>**



Al-Furat Al-Awsat Technical University held its first annual ceremony in honor of the auspicious birth of the Commander of the Faithful (peace be upon him). The ceremony was attended by the Governor of Najaf Al-Ashraf, Dr. Engineer Majid Al-Waeli, and a group of distinguished university presidents (President of the Technological University - President

of Jaber Ibn Hayyan Medical University, President of Al-Karkh University - President of Dhi Qar University - President of Al-Qadisiyah University - President of Karbala University and President of the Islamic University), and gentlemen (Police Commander Al-Najaf Al-Ashraf - and the Director of National Security - and the President of the Chamber of Commerce - and the President of the Chamber of Industry and the representative of the Rights Movement and a large audience of academic, community and official figures, in addition to the assistants to the President of the University and the deans of colleges and institutes, associates and students. The central



SDG 15: Life on Land

ceremony was presented by the master of the ceremony, Mr. Haider Rahim, and the ceremony began. By reading a verse from the Holy Quran, it was recited to the audience by the reciter of the Holy Imam Ali Shrine, Mr. Hani Al-Moussawi, and the President of the University gave a speech in which he referred to the virtues of the Lord, the Commander of the Faithful, peace be upon him, and the clear signs of his virtue mentioned in the Holy Qur'an and the Sunnah, calling for inspiration. From his fragrant biography and in all its aspects and vocabulary that cannot be encompassed by words and meanings. Pointing out that the edifice that is inaugurated on this occasion is another achievement that comes within the series of achievements that the university has achieved over the past two years and in various fields.. It has been named (the Birth Tower).

In honor of the birth anniversary of the Commander of the Faithful, peace be upon him, it will be an important architectural monument and landmark that bears witness to the efforts and creativity of Al-Furat Al-Awsat Technical University in a time of challenge. In his speech, the President of the University praised the efforts of the engineering staff and all workers in the Departments of Construction, Projects, and Office Affairs at the University Presidency.

He also praised the efforts of the assistants and the supporting administrative and scientific circles, which contributed in one way or another to the completion of this edifice, as well as the role of the Department of Media and Public Relations in documenting the stages of work since the first day of starting the project until the opening day.

At the end of his speech, Al-Zuhairi extended his thanks to the Governor of Najaf Al-Ashraf, the university presidents, assistants, deans of colleges and institutes, government officials and notables, as well as the blessed presence of the university's employees and students, thanking them for their participation in the university on Christmas Day and the opening of this edifice, which will be a lofty edifice in Al-Najaf Al-Ashraf in particular and the Middle Euphrates in general. The ceremony's activities also included listening to the university's anthem, and songs from the Imam Ali Imam's Holy Shrine chanting troupe, singing with love for the Lord, the Commander of the Faithful, peace be upon him, in addition to honoring the directors of the Department of Construction, Projects, and the Diwan, the executives, and the distinguished students in the schools of the Holy City of Najaf.

-



- **Graduation projects see the light and others are under preparation:**
<https://atu.edu.iq/?p=21026>



The students of preliminary studies - the fourth stage at the Al-Musayyib Technical College for the Engineering and Agricultural Departments at Al-Furat Al-Awsat Technical University, began completing their graduation projects, as their titles varied and served the scientific path. The goal of the graduation project is to ensure the capabilities of the graduate student to invest in the cognitive structures and writing abilities he possesses.

And research and documentation during the stage of his studies, and giving the graduate student an opportunity to apply what he has learned and implement it in the vital field of his specialization, consolidating the value of scientific honesty in research and research writing, during the stages of documenting and writing the research report, as the graduation project is a model or work that the study body requests from the student; To measure what he has done during his studies, and the level he has reached in the field of specialization, which is one of the requirements for obtaining the final certificate, and it is a scientific document from which the student will benefit in the first place, as well as his fellow students.

Therefore, the research effort to be implemented should involve new ideas. And innovative solutions, through sound scientific planning, while graduate students continue to pursue their research under the supervision of the scientific committees in the departments for the purpose of making observations and knowing the stages of research.



- **Inaugurating a number of reconstruction projects at Al-Musayyib Technical College: <https://atu.edu.iq/?p=20064>**



The President of Al-Furat Al-Awsat Technical University inaugurated a number of reconstruction projects at Al-Musayyib Technical College, in the presence of the two assistants to the President of the University, Professor Dr. Ahmed Ghanem Waday, Professor Dr. Muhammad Abdel Mohsen Al-Majtoui, and a number of deans and associates. They were received by the

Dean of the College, Assistant Professor Dr. Ali. Hassan Wadi Al-Zubaidi and the advanced students in the college. The projects included the main gate of the college after its rehabilitation in its new look, and the scientific complex, which includes (halls for postgraduate students, a hall for continuing education equipped with the latest education and training technologies, a smart hall and the University Performance Division), as well as the opening of the Environmental Engineering Laboratory in the Department of Building and Construction Technology Engineering. Al-Zuhairi, during his meeting with the associates, indicated that the wheel of reconstruction at the university and its formations continues to develop the university environment and infrastructure at all levels, as it is an essential axis in the educational process. He continued to say that the basic work of the university leadership is based on ensuring a safe and comfortable environment for students and associates and that the reconstruction campaign and projects The accomplishments and others under construction witnessed by Al-Furat Al-Awsat Technical University and its formations in the last two years are only a starting point for larger pioneering projects, and the university has become a title, in light of working in the spirit of one team. Al-Zuhairi also praised the progress in the field of scientific research and the efforts and participation of all professors, graduate students, deanships, university support, and laboratory workers. Pointing out that humane and ethical dealing with professors, students and society is the basis of work and that the mission of the scientific, educational and academic



SDG 15: Life on Land

institution is to implant this culture in addition to implanting professional ethics in the souls of our students in addition to the scientific subject. During his speech, he touched on renewable energy and that the university is continuing in this field, stressing the university's ambition. To be distinguished in everything. He pointed out that success is easy, but maintaining it is the most difficult, and this is the challenge.

- Al-Furat Al-Awsat Technical University supports and organises events aimed to promote conservation and sustainable utilisation of the land, including forests and wild land through :
 - Greenhouse for planting vegetables for campus residents
 - Typical orchard at the University for genetic resources for food, animal herding and fish breeding and agriculture for campus residents & public



Greenhouse(Al-Furat Al-Awsat Technical University,Iraq)



Typical orchard (Al-Furat Al-Awsat Technical University,Iraq)

- <https://www.facebook.com/watch/?v=780173356675234>

Conservation: plant, animal, and genetic resources for food and agriculture



- Greenhouse for planting vegetables for campus residents
- Typical orchard at the University for genetic resources for food, animal herding and fish breeding and agriculture for campus residents & public
- The model orchard was established and the production of animal and plant products such as dates, honey and eggs was started, which contributes to supporting the local community.
- **Natural Honey Production**





- **Animals Farms**





SDG 15: Life on Land



- The greenhouses project was also established to grow and market plants.



SDG 15: Life on Land





SDG 15: Life on Land

AL-Furat AL-Awsat Technical University participates in the third annual exhibition of dates organized by the Directorate of Agriculture of Babylon.

Within the framework of the directions of AL-Furat AL-Awsat Technical University to embody the concept of a productive university and work to achieve the goals of sustainable development.

The participation in the exhibition was represented by Dr. Shather Abdul-Hamza Al-Amiri, Kufa Technical Institute, by presenting samples of date varieties and pictures of the model palm grove on the university campus in Kufa, which includes various varieties of palm trees, which adopts modern irrigation technology in the irrigation system.

It is noteworthy that the model garden was implemented by the technical staff in the Diwan Affairs Department at the university presidency in coordination with the Construction and Projects Department and with continuous field follow-up by the President of the University with the aim of improving the university environment by increasing the green spaces on campus.

It should be noted that the university's participation in the exhibition was admired by everyone.





SDG16: Peace, Justice and Strong Institutions

PEACE, JUSTICE
AND STRONG
INSTITUTIONS





Promote peaceful and inclusive societies for sustainable development, provide access to justice for all, and build effective, accountable and inclusive institutions at all levels

Goals include reducing all forms of violence; Ending violence against and trafficking in children; Promoting the rule of law and justice for all; Reducing financial flows, illicit weapons, corruption and bribery; Developing effective institutions; Participation in decision-making at all levels; Legal identity for everyone and Social sustainability aims to promote social justice, improve the quality of life, and protect the environment. This cooperation is strengthened by encouraging innovative technical applications that achieve sustainable development and promote positive social change. To achieve this goal, the university implemented the following activities:

The university, with all its formations, seeks to be a strong institution, and in every location it works to serve its local community and be a vital part of it through its academic and humanitarian role, as its formations work, each with its own position, to spread peace and tolerance, reject sectarianism and violence in all its forms, and spread a culture of importance. The role of the university student in society through the culture of speech, the concept of tolerance, community participation in national and religious occasions, providing material and moral support to special groups of society such as homes for the elderly, orphans, people with special needs, and the families of martyrs, running daily contracts and procedures, carrying out blood donation campaigns for hospitals, and afforestation campaigns in areas adjacent to formations and public roads. The university, with all its formations, holds workshops, seminars, and courses on spreading peace and brotherhood, restricting weapons to the state, combating bribery and corruption in all its forms, and participating in sports, literary, and artistic activities inside and outside the university.





One of the charity bazaars to support the families of martyrs

The titles of these activities include the crime of incitement in Iraqi legislation, administrative corruption, seminars on the dangers of drugs and their effects on society, the spread of smoking among youth groups, and violence against women. The number of these activities reached (39) activities and research (4).



One of the seminars on the Karbala site





CBRN course on chemical, biological and radiological security in cooperation with the response team from the Civil Defense Directorate in Muthanna Governorate





Al-Furat Al-Awsat Technical University for Women's Affairs holds a - course on cyber security

- <https://atu.edu.iq/?p=27245>

Within the axis of women's economic empowerment, the Women's Affairs Division at Al-Furat Al-Awsat Technical University organized a training course on cyber security entitled (Strengthening your digital identity) in cooperation with the Continuing Education Center for three days, starting from 4/22-25/2024.

The course was opened in the presence of the Scientific Assistant, Professor Dr. Ahmed Ghanem Waday, and the Director of the University President's Office, Professor Moin Al-Rubaie. For his part, the Scientific Assistant stressed the importance of the course topic and that awareness and education about cybersecurity are the first steps to success towards progress and development in this issue that concerns segments of society as a whole.

The course addressed several topics, including what is meant by cybersecurity, what it is, legal protection for it, the risks that threaten cybersecurity, and how to protect against the threats of cyberattacks. The course also included practical training on the most important steps for strengthening digital identity and securing e-mail. The course was attended by the official of the Women's Affairs Division, Eng. M. Ikhlas Razzaq Naham, who explained that there is no law specifically for cybercrimes yet, but rather there is a draft law that has been read first, and the law has been subjected to criticism because of some of its provisions, which stalled its legislation. What is being adopted now as a punitive text is the amended Iraqi Penal Code No. 111 of 1969. The importance of legislating a law specifically for cybercrimes was highlighted, as lectured at the session were by M. M. Janan Jader, assistant website administrator, and M. M. Ali Abdul Nabi, director of the Security Permits Department, where they explained. Types of cyberattacks and ways to prevent them. Your appreciation for the course are the officials of the Women's Affairs Units for the College of Health and Medical Technologies/Kufa, the Administrative Technical College/Kufa, the Technical Institute/Najaf, and the Technical Institute/Kufa, in addition to a group of male and female employees of the university presidency and its formations who confirmed their benefit from this course. They called for holding more of them because they contributed to developing the participants' abilities regarding the principles and rules of using institutional information systems and developing the participants' knowledge to understand cyber risks and how to prevent them. At the end of the course, certificates of participation were distributed by the scientific assistant, Professor Dr. Ahmed Ghanem Wady, who praised the lady. Ikhlas Razzaq Naham, head of the Women's Affairs Division, for organizing such courses that address indispensable topics in professional and daily life in general.





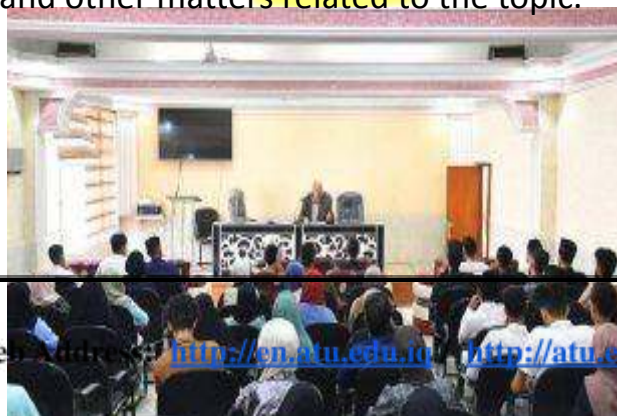
- **The university president's participation in the workshop held to discuss the draft law on the ninth amendment to the Ministry of Higher Education and Scientific Research**



- **Organizing a guidance seminar for internal department students**

The Psychological Counseling and Educational Guidance Unit at Al-Furat Al-Awsat Technical University organized the second stage for internal department students.

The symposium aims to communicate with students and guide them to what is good and appropriate, and in a way that is compatible with building students' capabilities, listening to their proposals, and finding solutions to problems, if any. The symposium topics included the university environment and adaptation to it, attention to the scientific aspect, adherence to official working hours, embodying ethics in dealing with teaching staff, organizing relations between the students themselves, maintaining cleanliness of public property, and other matters related to the topic.





- **Launching the system for managing the university's development training programs for the year 2023-2024**



- **The presence of the university president in a session within the (Communication) project implemented by the World University Service Organization in Canada**

At the invitation of the World University Service Organization in Canada, the President of Al-Furat Al-Awsat Technical University attended a session within the (Tawasul) project implemented by the organization, to verify the outcomes of the labor market and the sectors that were chosen in cooperation with employers. For his part, the University President spoke about the importance of communication between universities, the labor market, and technical universities in particular, because their outputs are directly linked to the market need, pointing out that meeting the requirements of the labor field is one of the main goals of university education in all its forms.

Adding that the goal of holding such activities is to create suitable job opportunities for graduates after qualifying them to enter the labor market, and that the university has been and continues to communicate with the



labor market through the chambers of industry in Najaf Al-Ashraf, Holy Karbala, Babylon, Diwaniyah, and Muthanna, as well as the Union of Iraqi Contractors in Najaf Al-Ashraf.

Diwaniyah and other private sector institutions through the Industrial Advisory Council, which was established in 2019, confirmed that these efforts resulted in the employment of large numbers of graduates. Al-Zuhairi called for more support for technical universities and highlighting their main role in providing the labor market with the middle and advanced cadres it needs with competent knowledge and skills.

The session's activities included discussing the results of the labor market assessment and the views of business owners on sector alignment and workforce needs, as well as reviewing cooperation opportunities to align skills through industrial advisory councils and exploring comprehensive support initiatives to reduce the gaps between males and females in job opportunities.





- **Al-Furat Al-Awsat Technical University organizes a workshop on information crime, fingerprints and signatures as important legal evidence: <https://atu.edu.iq/?p=21754>**



The Department of Legal Affairs at Al-Furat Al-Awsat Technical University organized a workshop on (Cybercrime, fingerprints and signatures as important legal evidence) in cooperation with the Forensic Evidence Department in the Najaf Police Command Directorate, and in coordination with the Center for Continuing Education. The Honorable President of the University during His speech at the opening of the workshop praised such activities, stressing the need to strengthen cooperation with various official and unofficial bodies and institutions, especially those related to the work of the university's departments and facilities, in order to advance the cognitive and scientific reality of the university's members. The workshop addressed the topics of electronic crime, cybersecurity, and electronic extortion, as well as the mechanism for exchanging academic and technical expertise between the university and the Najaf Police Command Directorate at various levels. The workshop recommended the necessity of spreading awareness and knowledge about the importance of (signature and fingerprint) affixed to official and unofficial paper documents, as well as a statement of the importance. The criminal and civil law of those documents. The workshop emphasized the necessity of creating a unified fingerprint database to benefit from it in the process of matching and emulation when criminal incidents occur. The forensic experts from the Najaf Governorate Police Directorate lectured at the workshop, and it was attended by the Administrative Assistant and Scientific Assistant to the University President and the directors and employees of the workshop. Finance, auditing and legal departments and officials of the finance, auditing and legal divisions in the university's colleges and institutes.



- **Al-Furat Al-Awsat Technical University concludes the course (Developing administrative skills for heads of scientific departments and newly appointed assistant deans):** <https://atu.edu.iq/?p=23249>

The Continuing Education Center at Al-Furat Al-Awsat Technical University concluded the course (Developing Administrative Skills for Heads of Scientific Departments and Newly-Assigned Dean's Assistants), in which the blended learning system was adopted to implement the course program, which includes important theoretical and applied lectures in leadership, management, and organization. Time is legally supported



in accordance with the Law of Discipline of State Employees and Students. The President of the University during his attendance at the closing of the course, welcomed the attendees, congratulated the new year and expressed his sound guidance on the important role of the manager in managing his institution and developing his skills and experiences to be a successful administrator and an exemplary leader. He also praised His Excellency praised the effective role and efforts made by the Center for Continuing Education to implement such courses that raise the level of performance. The course included a number of applications and tests over a period of four weeks in which the participants underwent a pre- and post-test to evaluate the level of the participants' performance.

- **The College of Health and Medical Technologies, Kufa, holds a scientific symposium on the National Awareness and Social Responsibility:** <https://atu.edu.iq/?p=20969>



The symposium, which was initiated by the unit's official, Assistant Professor Dr. Murtada Muhammad Jawad, began delivering lectures, and aims to clarify some social and security values and standards, and to develop a theoretical framework on the



requirements for developing awareness of security issues among university students.

The symposium presented the concepts of awareness, security, and violence and their relationship to community institutions, as they are a shared responsibility and not just the responsibility of the state, as well as achieving community security by warding off internal and external threats.

The symposium recommended the need to realize that security awareness is a comprehensive concept that relates to all aspects of life and is a responsibility that falls on society and not on one party or another.

-Al-Furat Al-Awsat Technical University organizes a symposium entitled Electronic blackmail and the methods used to combat it
[:https://atu.edu.iq/?p=19305](https://atu.edu.iq/?p=19305)



The symposium aims to familiarize participants with the danger of electronic extortion, draw the attention of young people to the dangers of this phenomenon, and emphasize the optimal use of social media through education about electronic crimes. The symposium discussed ways to prevent cyber-extortion crimes and legal penalties for those who commit them, and stressed the need to take caution and enhance awareness against crimes to prevent the harm resulting from them.

The symposium stressed the necessity of reporting cases of extortion and not responding to threats by calling the community police hotline 497. The symposium recommended intensifying audio and visual awareness through seminars and awareness-raising and educational programs about the dangers of



this phenomenon, and filling young people's free time with useful things. The symposium, which was attended by Lieutenant Colonel Diaa Zuwain, Director of Community Police, Commissioner Zainab Al-Waeli, and Commissioner Asma Habib Saleh, witnessed dialogues and discussions from the reality of Iraqi society.

-Al-Furat Al-Awsat University is represented by the highest authority, which is the president of Al-Furat Al-Awsat University, and it has a strong representation with the local government in maintaining security and peace within the university campus.

- The university is also working to spread the culture of mutual respect through the psychological counseling and educational guidance unit.
- Also, in cooperation with several students, they are nominated by the students to represent them to raise the students' problems, suggestions and opinions through several periodic meetings held with them.
- In cooperation with the security defense, several courses and workshops are held on justice, defense of rights and gender equality





-Several festivals and exhibitions are also being prepared that deal with the issues of justice and equality in their works by staff & students



The university formations provide other types of support to their local communities, as follows:

- Al-Musayyib Technical Institute plowed the farms and rivers surrounding it, and this work has the benefit of reclaiming the agricultural lands adjacent to it by reducing salinity and increasing their fertility. In addition, the Institute obtained (5) employment opportunities for its graduate students, and the health center at the Institute provides various health services to the villages surrounding it.

- As for the Diwaniyah Technical Institute, it constantly attaches great importance to community service. In 2022, the Institute provided in-kind



assistance to the Al Ain Foundation for Orphan Care, in addition to the Institute's annual contribution to providing medical services and logistical support, providing dining tables to visitors to the Arba'een of Imam Hussein, peace be upon him, and holding a workshop with the Crescent Organization. Red information about cholera in Al-Hussein Teaching Hospital, as well as implementing training programs with the field of work, such as the Al-Khair Humanitarian Foundation, to obtain job opportunities for young people seeking work, and establishing a charity market, the proceeds of which were allocated to needy animals, as well as dredging the rivers and graveyards surrounding the institute, and planting a green belt of trees on the road. The year opposite the institute continues to take care of it and provide it with permeable water to sustain it, eliminate desertification, increase vegetation cover, and add an attractive view to the governorate.

As for the Karbala Technical Institute, it developed the banks of the Euphrates River in the Hindiyah district, in addition to holding many volunteer campaigns by the institute's departments. The Community Health Department conducted a free volunteer campaign to examine the institute's members and students (to measure pressure, blood viscosity, kidney function, and sugar and oxygen levels). In cooperation with the Karbala Health Department, an awareness and guidance campaign about AIDS and how to prevent it by distributing posters about it.





- Al-Musayyib Technical College has a major contribution in marketing the research of its members to private sector companies and various ministries, with (32) research papers to contribute to supporting the economic movement and solving the problems that these entities suffer from. It obtained two job opportunities to employ its graduates, in addition to holding a number of volunteer campaigns for the shareholder. Providing part of the needs of orphanages and the elderly and conducting a number of workshops and courses to provide professional skills and expertise to all segments of society.

As for the Administrative Technical College, it carried out a volunteer campaign to the orphanage (Al-Anjum Al-Zahira) to donate some food items, clothes, and detergents.



SDG17: Partnership for the Goals





SDG17: Partnership for the Goals

Al-Furat Al-Awsat Technical University's policies and strategies are well approved and proposed by the Iraqi Ministry of Higher Education and Scientific Research, which aims to develop the necessary capabilities in the field of sustainable development, including

- Stimulation and supporting sustainable development research in International and local universities.
- Highlighting the latest developments in economic, social, Health, and environmental research in conjunction with sustainable development concepts.
- Discussing the obstacles associated with the integration of sustainability with the educational process that face faculty members.
- Discussing the role of SDGs
- Partnerships in terms of supporting scientific research and community services.

The university achieved this goal through the following:

- Consulting offices:

Universities are distinguished by the presence of consulting offices to provide advisory services to state departments, the private sector, and members of society in accordance with applicable laws and instructions by benefiting from the experience of university professors and craftsmen in various specializations in exchange for fees determined in accordance with laws and instructions. The services of these offices are among the most important that the university provides to society because of its role. He is great at providing advice for investing human and financial resources and preserving the environment in light of scientific foundations that can be applied on the ground and marketed to the beneficiaries.

- Activities of the cooperation mechanism: The activities of the cooperation mechanism between the university and the public sector are determined according to effective instructions, such as holding courses for members of government departments and providing some services to the entities that the university deals with, including graduates and state employees.

- Holding scientific conferences in partnership with local and international universities, which numbered (5) conferences



SDG17: Partnership for the Goals

- **In partnership with the University of Kufa and the University of Jaber Ibn Hayyan for Medical Sciences and the Popular Mobilization Forces, Al-Furat Al-Awsat Technical University holds its international scientific conference entitled (Educational Institutions and Their Efforts to Confront Extremism and Intellectual Phobia)**

Under the slogan “With science and knowledge we confront extremism and defeat terrorism”

Under the patronage of His Excellency the Minister of Higher Education and Scientific Research, Dr. Naeem Al-Aboudi...Al-Furat Al-Awsat Technical University held its international scientific conference (entitled Educational institutions and their efforts to confront extremism and intellectual terrorism) at the University of Kufa, with the aim of highlighting the pivotal role of educational institutions in promoting the values of tolerance and establishing a culture of rejection. Violence.

The opening ceremony was attended by a representative of His Excellency the Minister, Administrative Undersecretary, Professor Dr. Ibrahim Adnan Al-Jumaili, the President of the University of Kufa, Professor Dr. Yasser Lafta Al-Ugaili, the President of the Middle Furat Technical University, Professor Dr. Hassan Latif Al-Zubaidi, and the President of the Jaber Ibn Hayyan University of Medical Sciences, Professor Dr. Ali Ismail Abdullah, in addition to the presence of High-ranking academic, parliamentary and religious official figures,

With the participation of researchers and specialists from Arab and local universities.

Al-Jumaili in his speech:

University institutions top the list of influential institutions because they possess the scientific requirements and tools that create awareness responsible for diagnosing risks, dismantling emergency phenomena, and transforming them into academic analyzes based on a comprehensive, objective reading that is subject to a number of scientific research without impartiality, enabling them to diagnose the defect, contain it, and prevent the symptoms from moving to the stage of negative exacerbation.

Al-Jumaili conveyed the speech of His Excellency the Minister:

We are working to strengthen the capacity of universities in this context by improving the procedures that guarantee awareness-raising and the provision of community services.

Educational institutions represent a fundamental and pivotal basis by providing an appropriate scientific environment that has the competence and ability to produce human resources capable of applying scientific knowledge and harnessing it in the service of society.

He called for intensifying efforts to confront the environment of extremism, to provide an educational environment that stimulates creativity and innovation, and encourages solid scientific research that is consistent with the relevant strategy of our esteemed Iraqi government, and high interest in community health and development, which is one of the goals that we all seek.

We urge steps to achieve quality education paths through which the foundations of development are consolidated and in whose environment society is secured and its children, resources and blessings are protected at the same time.

In these qualitative conferences, responsibility is evident at its highest levels, requiring everyone to confront this phenomenon through a culture of scientific awareness and concern for achieving sustainable development and responding to its goals in “good education, good health, combating poverty, meeting national entitlements, taking into account changes and overcoming challenges” in order to ensure Sustainable education, performing responsibilities, localizing development goals and moving them towards productive global partnerships.



- **A delegation from the Iraqi Mathematics Association on a field visit to Al-Furat Al-Awsat Technical University... and joint scientific and cultural cooperation.**

Based on the principle of extending bridges of scientific and cultural cooperation between Al-Furat Al-Awsat Technical University and the Iraqi Mathematical Society, and with the aim of promoting and strengthening scientific and cultural relations between the university and the society and consolidating frameworks of understanding in the fields of scientific and cultural research, which will reflect positively on the development of the scientific level of both sides, a delegation from the Iraqi Mathematical Society, headed by Professor Dr. Nouri Farhan Al-Mayahi, head of the Al-Anwar Center for Development and Education, made a field visit to Al-Furat Al-Awsat Technical University for the above purpose. The visit included two meetings, one of which was with the President of the University, Professor Dr. Hassan Latif Kazem Al-Zubaidi, during which the association and its scientific activities were introduced and frameworks for joint scientific and cultural cooperation between them were discussed through hosting the thirteenth international scientific conference of the association, which is scheduled to be held at the university for the period 24 - 25 April 2024. As for the second, The Assistant President of the University for Scientific Affairs, Professor Dr. Ahmed Ghanem Waday, and the Director of the Department of Scholarships and Cultural Relations, Assistant Professor Dr. Hashem Ali Hussein, were with him. The visit resulted in a preliminary agreement on a set of foundations that will be adopted in the mechanism for holding the conference. In conclusion, the delegation expressed its thanks and appreciation to Mrs. Saadia Kamil. Awad for her great role in coordinating between the university and the association.



- Signing a memorandum of understanding with Bucharest Polytechnic University in Romania

Within the approach of openness and communication with international universities, the President of Al-Furat Al-Awsat Technical University signed a memorandum of scientific and cultural understanding with Bucharest Polytechnic University in Romania.

The signing of the memorandum is in harmony with the policy of the Ministry, represented by His Excellency the Minister of Higher Education and Scientific Research, to build scientific and cultural relations with reputable universities in a way that achieves the desired benefit from joint cooperation, introduces the capabilities of Iraqi universities, and improves their reputation in international forums, in a way that achieves the internationalization of higher education.

The memorandum discussed the possibility of exchanging scientific expertise through exchanging professors to conduct research, scientific meetings, giving lectures, and discussing theses and theses, as well as supporting scientific projects, training programs, and exchanging students.

The memorandum emphasized strengthening cooperation in the field of authorship and publishing joint scientific research in reputable journals within international scientific resources, in addition to attending conferences, seminars, workshops, scientific and cultural competitions, and participating in scientific activities and events organized by the two universities.





SDG17: Partnership for the Goals

Strengthening means of implementation and revitalizing the global partnership for sustainable development

Objectives include strengthening domestic and international resources; Debt sustainability; technology transfer and capacity building; promotion of trade; promoting coherence in policies and institutions; respecting countries' policy space; strengthening multi-stakeholder partnerships; Measures of progress, disaggregated data, and community sustainability aims to build strong community partnerships with local communities, non-profit organizations and the government, which contributes to achieving the sustainable development goals in a comprehensive and effective manner. To achieve this goal, the university implemented the following activities:

To achieve this goal, the university works annually to increase the number of partnerships with local, Arab and international universities by signing memorandums of scientific understanding to hold conferences, exchange scientific expertise, and send students on scholarship, on the one hand, and on the other hand, to increase cooperation with state institutions through cooperation mechanism activities and the provision of scientific consultations in various specializations. The university and with non-profit civil society organizations

And communication with the local communities of the university's sites in the Middle Euphrates region. The number of conferences in which the university participated in the year 2023 reached () conference, and the number of memorandums of understanding for the same year reached () memorandum



Signing a memorandum of cooperation between the Karbala Technical Institute and the General Secretariat of the Holy Shrine of Hussein



- **Signing a memorandum of understanding with Istanbul Aydin University in Türkiye**
- **Signing a letter of understanding with the University of Agricultural Sciences and Veterinary Medicine in Bucharest**

As part of a series of activities of the delegation of technical universities, Al-Furat Al-Awsat Technical University signed a letter of understanding with the University of Agricultural Sciences and Veterinary Medicine in Bucharest.

The President of Al-Furat Al-Awsat Technical University, during his meeting with the advanced staff at the university, gave a speech in which he presented an overview of technical education in Iraq and referred to the initiatives adopted by the Ministry of Higher Education and Scientific Research in the field of internationalization, which constitutes a pivotal goal for the visiting delegation, including the application of the Bologna Pathway in Iraqi universities and the (Study) initiative. In Iraq) launched by His Excellency the Minister and opened the horizons of cooperation with reputable international universities.

The letter of understanding concluded by Al-Zuhairi in the presence of the cultural attaché, Dr. Shaker Kazem, and members of the visiting delegation included several axes of scientific and cultural cooperation proposed in the preliminary version of a detailed memorandum of understanding to be signed later between the two universities.





SDG17: Partnership for the Goals



- Participation in the first conference of the Industrial Advisory Council for Universities, organized by the Ministry of Higher Education and Scientific Research



Under the patronage of the Minister of Higher Education and Scientific Research, Dr. Naem Al-Aboudi, the proceedings of the first conference of the Industrial Advisory Council for Universities were opened at Gilgamesh National University under the slogan of advanced higher education that meets the needs of the labor market. His Excellency the Minister of Higher Education and Scientific Research, in his speech during the conference, indicated the necessity of linking the curricula directly.



SDG17: Partnership for the Goals

By meeting the needs of industrial institutions and reviewing them regularly, to meet all the variables in the global environment and achieving more coordination and cooperation between universities, companies, sectoral ministries, unions and relevant organizations, through industrial advisory councils, in an effective, transparent and sustainable manner, and labor market cooperation with universities in order to convey market requirements. To curricula, academic programs, scientific research, and agreement on the fields of training and rehabilitation. He explained that the conference coincides with the completion of the first year of the work of the Ministry of Higher Education and Scientific Research and the establishment of qualitative achievements in terms of qualifying specialized scientific staff, conducting research and community service, indicating that it is an important part of the Ministry's priorities in supporting The private sector and creating job opportunities by establishing appropriate climates that start from scientific knowledge as the effective tool in development and improvement.

The President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, participated in the main discussion panel that the first session witnessed, in which the Undersecretary for Public Affairs participated. Scientific research, Professor Dr. Haider Abd Dahd and a number of experts and consultants in the state's sectors. Al-Zuhairi pointed out in his speech the importance of the Industrial Advisory Council in identifying the gap in qualifications between university outputs on the one hand and market requirements on the other hand and creating real job opportunities for graduates that are compatible with their qualifications, as well as Active participation in modernizing curricula, creating programs and specializations that keep pace with the steady progress in all areas of life, reviewing specializations that no longer meet the needs of the labor market, stimulating scientific research that contributes to finding solutions to real problems afflicting the state's sectors, and active participation in building capabilities that benefit the country.

All parties. In another aspect of his intervention, the President of the University referred to some experiences related to the importance of partnership between education and the field of work in international universities. He also referred to a number of success stories achieved at the local level.

It should be noted that the Scientific Assistant to the President of the University, Professor Dr. Ahmed Ghanem Waday participated in the conference proceedings.



2nd International Conference on Engineering, and Science to Achieve the Sustainable Development Goals

2nd ICASDG2023 is held as a hybrid conference combining physical participation in **Tabriz, Iran**, and online participation, on **9 – 10 July 2023**.

Conference Aims

Developing the necessary capabilities in the field of sustainable development, including:

- Stimulation and supporting sustainable development research in the Iraqi universities.
- Highlighting the latest developments in economic, social, and environmental research in conjunction with sustainable development concepts.
- Discussing the role of partnerships in terms of supporting scientific research and community services.
- Unveiling the significance of voluntary work to achieving the goals of sustainable education.
- Supporting initiatives that contribute to improving business sustainability and the quality of public services for the governmental and private sectors.
- Developing a road map for sustainable development in the region beyond the COVID-19 pandemic.

Conference Topics

The conference covers all fields of Engineering, science, and environment but not limited into:

- General Engineering (Mechanical Engineering, Civil Engineering, Chemical Engineering, Electrical, and Electronic Engineering).
- Advanced Material Science (Nanotechnology, Polymers, Metals, and alloys, Advanced ceramic, Advanced material).
- Science (General Physics, Statistical Physics, ICT, Artificial intelligence, Computer Science and Technology, Industry, Pollution, Chemistry, and Biology).
- Renewable and sustainable energy science (Solar energy, Wind energy, Biomass & Alternative fuel).



SDG17: Partnership for the Goals





- **Signing a memorandum of joint scientific and cultural understanding with the University of Mosul**



Within the approach of openness and communication with Iraqi, Arab and international universities, the President of AL-Furat AL-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, signed a memorandum of joint scientific and cultural understanding with the University of Mosul, in the presence of its president, Professor Dr. Qusay Kamal Al-Ahmadi and the senior staff at the university.

Al-Zuhairi said at the beginning of the signing ceremony that the signing of the memorandum The understanding came in harmony with the ministry's policy, represented by His Excellency the Minister of Higher Education and Scientific Research, to create a real and effective twin between government universities in a way that achieves excellence and prestige for them at the Arab and international levels. In part of his speech, Al-Zuhairi



SDG17: Partnership for the Goals

pointed out that the University of Mosul represents a great title among universities due to the great achievements it has achieved over its long history. This university has produced thousands of engineers, doctors, writers, and scientists in various specializations who have made clear contributions to Iraqi society... and in the same context.

Al-Zuhairi indicated that he is proud to be one of the graduates of this generous university in the early 1980s. Meanwhile, the President of the University of Mosul presented in his speech an overview of the university's specializations and the scientific achievements that have been achieved recently, as well as the reconstruction and rehabilitation projects that were implemented from the period 2014. Until the present time, which contributed to restoring life to the university, especially since it had been subjected to comprehensive destruction during the events of 2014.

The memorandum of understanding addressed the possibility of exchanging scientific expertise through the exchange of professors to conduct research and scientific meetings, give lectures, and discuss theses and dissertations, as well as supporting scientific projects and training programs. The memorandum also included cooperation in the field of developing curricula in the corresponding departments of both parties.

The memorandum stressed the strengthening of cooperation in the field of authorship and publication of joint scientific research in reputable journals within international scientific bodies, in addition to attending conferences, seminars, workshops, scientific and cultural competitions, and participating in scientific activities and events organized by both parties. The signing ceremony of the memorandum also included the screening of a documentary film for both universities that includes the most important matters Achievements .

- **Participation in the first technical education forum organized by the Warith Foundation for Technical Education**





SDG17: Partnership for the Goals

Centered on:

1. The importance of technical education and its role in supplying the labor market with skilled personnel.
2. The challenges facing technical education, reviewing some global experiences that confirm the interest of the major industrialized countries in this type of education and making it their top priority.
3. Pointing out that technical and academic universities bear a major responsibility in bringing about positive change in society and in all aspects of life, with the minds and competencies of professors and a wide segment of students who represent a wide spectrum of society.

Success stories achieved at Al-Furat Al-Awsat Technical University were also presented with regard to building partnerships with the labor market through the Industrial Advisory Council and activating the role of the rehabilitation and employment divisions in providing graduates with soft skills and updating the curriculum to keep pace and meet the requirements of the labor market.

- **Organizing the second job fair with the participation of a number of private sector companies and institutions**



- **Participation in the meeting of the Council of Technical Universities held in Erbil**





SDG17: Partnership for the Goals

- Holding continuous meetings regarding the future plan for the university's scientific conferences



Moreover, Al-Furat Al-Awsat Technical University has direct involvement in, or input into, national government or regional nongovernment organizations SDG policy development - including identifying problems and challenges, developing policies and strategies, modeling likely futures with and without interventions, monitoring and reporting on interventions, and enabling adaptive management , as the following direct involvement in:

	Information
1	<p>1st International Conference on Achieving the Sustainable Development Goals</p> <p>URL: ICASDG22 (atu.edu.iq) , https://atu.edu.iq/?p=21671</p> <p>Description: With the global development in economic thought, the concept of development has witnessed a series of transformations and developments. By the early 1970s, it had taken on a greater dimension than economic and social dimensions. New terms were introduced, the most important of which was sustainable development. The concept of sustainable development is considered a new and innovative concept, as there is not a universally agreed on concept. Sustainable development can be seen as social change directed according to a specific ideological policy. It is a long-term, comprehensive and integrated planning process in its economic, social, cultural, environmental, and technological dimensions, where it aims to achieve continuous</p>



improvement in the well-being of all members of society. Also, it should not be limited to a specific sector, but to the others as well, nor should it be dependent on one topic. In this context, this conference will highlight the most important and recent advancements between reality and expectations in sustainable development because of their role in establishing and developing strategic development visions, given the changes the world is going through at various levels, especially the political, economic and social one. We attempt to discuss this according to a set of core issues including the role of the public sector, private sector, and local and international organizations in achieving the goals of sustainable development and their benefits in the light of United Nations Vision 2030.

-Holding the first international conference to achieve the goals of sustainable development in cooperation with the Turkish University Altınbaş University, Turkey and Al-Mustaqbal University College.

In addition to the opening session, the conference witnessed physical and electronic sessions in which 123 research papers presented to the conference were presented and discussed among six Topics related to sustainable development.

Conferences Topics

The main focus of this conference is on papers within the scope of sustainability but not limited into:

- Sustainable development (Reality and Challenges)
- Sustainable economic development
- Health development and health indicators within the sustainability goals
- Governance and good governance for sustainable development
- Natural resources and renewable energies (Technologies and Engineering Sciences)
- Sustainable Environmental



SDG17: Partnership for the Goals

Photos: .



Preparing the data and infrastructure required to achieve sustainability

URL: <https://atu.edu.iq/?p=20237>

Description: Forging emerging partnerships with Arab and international countries, as in the visit of the European Union ambassador, the expert from UNESCO, and the Bahrain Consul, to develop sustainability goals and prepare the data and infrastructure required to achieve sustainability.



SDG17: Partnership for the Goals

Photos:



Letter of scientific cooperation with Diyala University

URL: <https://atu.edu.iq/?p=22067>

Description: In order to achieve integration and partnership in raising the level of scientific and research programs that serve the march of higher education and the culmination of its efforts in institutional integration and opening its doors to the sober Iraqi universities where it finds the common denominator to keep pace with and develop the process of higher education.



Bologna Process

URL: <https://atu.edu.iq/?p=21975>

Description: Through international cooperation with international universities, the implementation of the Bologna track in education has been started in several departments of Al-Furat Al-Awsat Technical University (Al-Furat Al-Awsat Technical University, Iraq)

To enhance and raise the educational level of its students and graduates, and to prepare graduates who are scientifically and professionally qualified with experiences and skills that qualify them to engage in the labor market.

Photos:



The eleventh international conference at Al-Furat Al-Awsat Technical University, in partnership with Al-Mustaqbal University College

URL: <https://atu.edu.iq/?p=22866>

Description:

Under the blessed patronage of His Excellency the Minister of Higher Education and Scientific Research, Professor Dr. Naeem Al-Aboudi, the activities of the eleventh international conference of Al-Furat



SDG17: Partnership for the Goals

Al-Awsat Technical University and the first of the Administrative Technical College of Kufa were launched in partnership with Al-Furat Al-Awsat University College under the slogan (Towards a Contemporary Approach to Administrative Reform and Development Sustainable), this morning, Wednesday, for the period from 2-3/11/2022.

The conference proceedings were attended by the representative of His Excellency the Minister, President of the University of Kufa, Professor Dr. Yasser Lafta Al-Ugaili, and a number of presidents of public and private universities. The President of the University of Baghdad, the President of the University of Information and Communications Technology, the President of the Islamic University, representatives of the University of Karbala, the Central and Northern Technical University, Al-Kafeel University, Al-Mustaqbal University College, the assistants of the University President, a number of deans of colleges and institutes and their assistants for a number of technical universities, department directors, and a group of guests and associates. The conference aims to exchange Experiences between technical and academic universities in the field of administrative, accounting and financial sciences, information technology techniques, exchange of experiences between researchers, and the use of modern educational systems that are accessible to the educational institution to serve students, associates and different segments of society.

The conference began with the recitation of a verse from the Holy Quran, then reading Surah Al-Fatihah to the souls of the martyrs, followed by listening to the national anthem. For his part, the President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, indicated in the opening speech that the conference constitutes a good opportunity for researchers and those concerned with this matter to exchange visions, ideas and experiences on topics related to the conference's themes and the 2030 Sustainable Development Agenda announced by the United Nations to achieve its seventeen goals, Pointing out that sound management of material and human resources, governance, and the use of modern technology constitute the basis for achieving these goals. Al-Zuhairi also explained that the conference topics addressed important topics related to contemporary technology in business administration and accounting sciences and their applications to achieve administrative reform and sustainable development, as well as information technology, including Artificial intelligence and e-government in the era of Covid19, systems and software security, cybersecurity, data protection, software applications, simulation in statistical studies, neural networks, and Big Data. These are topics of great importance at the present time that require scientific and academic institutions to address them. We hope that this conference will contribute to finding solutions to many of the problems that the state's sectors suffer from.

Meanwhile, the representative of His Excellency the Minister of Higher Education and Scientific Research, President of the University of Kufa, Professor Dr. Yasser Lafta Al-Ugaili, delivered a speech in which he praised the efforts made by the university's presidency, its administrative and scientific leaders, and its professors, and conveyed His Excellency the Minister's blessings and wishes for success for the conference. Professor Dr. Muayyad Al-Fadl also delivered a speech from the Deanship of the University College of the Future. In which he pointed out the importance of holding the conference at this particular time as it addresses important topics related to administrative and financial reform in light of the global trends to achieve sustainable development in this field. Between the Chairman of the Preparatory Committee and Professor Dr. Fadel Abbas Al-Abidi, Dean of the Administrative Technical College of Kufa, the conference's interlocutors It dealt with research in business administration, accounting and



SDG17: Partnership for the Goals

informatics, noting that the number of research papers accepted by the scientific committees was (45) qualitative research out of (64) research submitted to the conference, with the participation of (92) researchers from inside and outside the university.

The conference also included the presentation of a documentary film about the most important activities of the university to achieve the goals of sustainable development, produced by the Department of Media and Public Relations, and another presentation about the success story of the University College of the Future. While the conference sessions, which were moderated by the Dean of the Najaf Technical Institute, Professor Dr. Haider Hassan Al-Abdali, included the delivery of many lectures that included: There was a lecture by Professor Dr. Abbas Mohsen Al-Bakri, President of the University of Information and Communications Technology, on (the digital transformations that the world is witnessing), and another by Dr. Salah Nouri Khalaf, former head of the Financial Audit Bureau and Dean of the Institute of Internal Auditors for Postgraduate Studies, on (developing the general budget and financial control using information technology).

Photos:



Employment interviews for graduates of Al-Furat Al-Awsat Technical University in coordination with the Najaf Chamber of Industry

URL:<https://atu.edu.iq/?p=19828>

Description: Al-Zuhairi, in a statement to the university media, stated that this initiative was under the supervision of the Scientific Affairs Department/Rehabilitation and Employment Division at the University Presidency and in coordination with the Najaf Chamber of Industry to announce a number of previously promoted jobs, which include holders of a technical diploma and a technical bachelor’s degree in the specializations of mechanics and electricity.



SDG17: Partnership for the Goals

His Excellency stressed that these interviews are the beginning of a new and major breakthrough, as the university is preparing to hold a job fair scheduled to be held on the 17th of this month (January 17) with the participation of more than 20 companies in which graduates in various specializations will be advertised and recruited.

He pointed out that the university has continued to create the largest number of job opportunities for its graduates since the establishment of the Labor Advisory Council last year until the present day, as the Council seeks, in cooperation with the private sector, public and mixed sectors, to provide job opportunities for graduates that suit their specializations and the requirements of the labor market.

For his part, Professor Ali Al-Zalmi, Director of the Scientific Affairs Department at the University Presidency and supervisor of interviews, stated that more than 60 male and female graduates in the specializations of mechanics, electricity, or mechatronics were interviewed, and a number of them will be nominated for the jobs offered by 8 of the owners of factories and large laboratories in the Al-Najaf Governorate, in coordination with Najaf Chamber of Industry. For its part, the Najaf Chamber of Industry thanked the university for offering confidence in the private industrial sector. The head of the chamber, Mr. Amer Al-Haddad, stated that work protocols had been organized between the two sides, which resulted in the graduates being interviewed today to nominate them for the jobs offered earlier. He indicated that the graduates possess skills, experience, and certificates that qualify them. To obtain jobs through what the university provided to them throughout their years of study, as well as the skills development courses provided to them after graduation. It is worth noting that the graduate students have entered courses and programs at the Center for Continuing Education at the University Presidency for the purpose of writing their CVs and preparing them for these interviews and the job fair. The graduates expressed their happiness regarding these initiatives undertaken by the university to reduce the unemployment rate.

Photos:



- Teaching at Al-Furat Al-Awsat Technical University, Chairman of the National Council for Health and Medical Technology Specializations, and the Ministry of Higher Education and Scientific Research launches its standards. : <https://atu.edu.iq/?p=22556>



SDG17: Partnership for the Goals

- For more information about direct involvement: <https://atu.edu.iq/?cat=53&paged=21>
- Furat Al-Awsat Technical University holds a training workshop entitled Creating Projects via the Internet

The Department of Scientific Affairs at the Presidency of Al-Furat Al-Awsat Technical University, the Division of Rehabilitation, Employment and Follow-up, in cooperation with the Iraq Pioneers Organization for Business Development and the Yougen Academy Organization, held a training course entitled Creating Projects via the Internet, which is intended for female students and graduates of the university.

The workshop, which was attended by the President of the University, Prof. Dr. Mudhaffar Sadiq Al-Zuhairi, was attended by (30) students and graduates of the university from various formations.

The President of the University, in his speech, referred to the role of the university and its great efforts in qualifying graduates and holding training and development courses for them in order to prepare them to enter the labor market, pointing to the need to move towards the private sector in light of the current indicators, which clearly show the low job opportunities in the government sector.

Al-Zuhairi also referred to the importance of soft skills and their role in obtaining graduates the opportunity to work in the private sector, in addition to specialized technical skills.

At the end of his speech, the President of the University extended his thanks and appreciation to the Iraq Pioneers Organization for Business Development and Login Academy for their cooperation in adopting such initiatives.

It should be noted that the workshop will last for eight days, during which participants will be trained in e-marketing and how to work from home by creating a project for the student or graduate.

Training includes project planning, preparation of preliminary studies, market needs, competition, project features, legal aspects, financing, target audience, expected cost, opportunities for success and future development.

It also includes presenting success stories of previous experiences of some female graduates in order to benefit from their experiences and overcome obstacles that may hinder the implementation of the project.

The session was also attended by the Scientific Assistant to the President of the University, Professor Dr. Ahmed Ghanem Waday, and the Director of the Scientific Affairs Department, Professor Ali Al-Zalmi.





SDG17: Partnership for the Goals

- The President of Al-Furat Al-Awsat Technical University receives a delegation from Mashhad University of Medical Sciences...to enhance the prospects for joint scientific and cultural cooperation
<https://atu.edu.iq/?p=21955>
- Al-Furat Al-Awsat Technical University undertakes educational outreach activities represented by awareness committees their mission is to raise local & educational awareness beyond campus through different tailored lectures or demonstrations in the local schools, the community, displaced people,& local residents, including voluntary student-run schemes & academic staff. As the following:

- **Al-Furat Al-Awsat Technical University witnesses the opening of the first scientific and technical exhibition with the participation of major companies specialized in modern training and education techniques and information**





On the sidelines of the eighth and first international conference of the Center for Continuing Education entitled (Continuing education is creativity and development towards the world of modern technologies) and under the direct supervision of the President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, the university witnessed the opening of the first scientific and technical exhibition in the presence of the representative of His Excellency the Minister of Higher Education and Research, Scientific, Mr. President of the University of Kufa, Professor Dr. Yasser Lafta Al-Ajili, with broad participation from major information and communications technology companies and companies specialized in modern education and training technologies. The opening was attended by a number of presidents of public and private universities. President of Jaber bin Hayyan University of Medical Sciences, President of Dhi Qar University, President of Al-Karkh University of Sciences, Islamic University, Al-Mustaqbal University College, Imam Al-Kadhim University College, peace be upon him, a number of deans of colleges and institutes in technical universities, the ministerial team for e-learning, and a number of directors of continuing education centers in Iraqi universities, as well as The presence of the Second Deputy Governor of Najaf, Mr. Talal Bilal, a number of local government officials, company representatives, and a group of guests, students, and associates. The scientific and technical exhibition included the participation of more than twenty-five companies specialized in information and communications technology, as well as the products of students and associates in the university's formations, with the aim of exchanging experiences between Universities in the field of training and developing skills using modern technology methods, software programs and applications, and modern educational systems that are accessible to the educational institution to serve students, associates, and different segments of society.

-Al-Furat Al-Awsat Technical University organized a purposeful theatrical performance in cooperation with the Abaad Media Team and the Reyadah Center:



<https://atu.edu.iq/?p=23117>



Under the patronage of the President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, the College of Health and Medical Technologies, Kufa, and the Student Activities Department at the University Presidency organized the purposeful theatrical performance under the title (Under the Pressure of Cortisol), in cooperation with the Abaad Media Team and the Reyadah Center in a joint work for them called (The Platform). This Theatrical performance was attended by the President of the University, the Assistants to the President of the University, the Deans of the College of Health and Medical Technologies, Kufa, the Dean of the College of Engineering Technology, Najaf, a number of department directors in the University Presidency, and social elites in Najaf Governorate, as well as a large crowd of students from the University and other universities. The presentation aims to identify decision-making skills under pressure, follow correct mechanisms for making the right decision, and how to get rid of the pressures that people face when making crucial decisions. The theatrical performance included scenes of situations that led to disasters due to making a wrong decision under the influence of the hormone cortisol, while the



SDG17: Partnership for the Goals

theatrical performance dealt with these situations in a purposeful artistic manner in addition to the suspense and fun of the presentation tools. On the other hand, the university president praised the efforts made to make this qualitative and important initiative a success. And directing it in an artistic way that is interesting to the recipient, expressing his continued support for such activities that serve students and society and produce positive results in serving the educational process. At the end of the theatrical performance in which the presenter (Hassan Al-Tarfi), the actor (Nour Salah), and the platform official, Dr. (Saif Hassan Abdel Nabi) participated, The Dean of the College of Health and Medical Technologies, Kufa, Professor Dr. Angham Jassim Al-Ramahi, on behalf of the President of the University, honored the participants and contributors to the success of this important show with certificates of appreciation for their efforts in the theatrical show.

-Opening of the Fine Arts Festival for Iraqi university students in the presence of His Excellency the Minister of Higher Education and Scientific Research, Dr. Naeem Yasser Al-Aboudi:
<https://atu.edu.iq/?p=23137>



At the opening of the University Festival of Fine Arts at Al-Furat Al-Awsat Technical University, the Minister of Education confirms that the creative environment in academic institutions is a revealing means to evaluate the level of the university and the extent of its interaction with its goals and educational programmes. The Minister of Higher Education and Scientific Research, Dr. Naeem Al-Aboudi, confirmed that

consolidating the creative environment in academic institutions is a means Revealing to



SDG17: Partnership for the Goals

evaluate the level of the university and the extent of its interaction with its goals and educational programs. He said in his speech during the opening of the activities of the University Festival of Fine Arts for students of Iraqi universities, which is organized by Al-Furat Al-Awsat Technical University in the presence of its president, Dr. Muzaffar Sadiq Al-Zuhairi, and the presidents of the universities of Kufa and Jaber bin Hayyan, that the artistic embodiment of creative abilities is equivalent in terms of The importance of scientific tests conducted by universities and taken by students during the semesters or at the end of them to measure the academic achievement index. The Minister of Education explained that university administrations are required to pay attention to these activities, focus on the student, his talents and potentials, and work to meet them in an optimal manner, indicating that consolidating the creative university environment represents a means It is revealing through which one can evaluate the level of the university and the extent of its interaction with its goals, educational programs and plans in the short, medium and strategic term, and indicate its dealings with the human element, which is the most important component in the educational process. He stressed the necessity of universities developing effective plans to manage their human resources, measure their qualifications, and take into account the availability of a sufficient number of them in the educational process. Each department and scientific branch to be able to implement academic programs and review selection criteria through the perspective of tasks and implementation of responsibilities so that the project of developing creativity is achieved in all universities and colleges, both governmental and private. In turn, the President of Al-Furat Al-Awsat Technical University expressed his optimism and appreciation for the follow-up and interaction shown by the Minister of Education. Higher education and scientific research, Dr. Naeem Al-Aboudi, and the level of response and interaction to university programs and their applied paths. The Minister of Education, Dr. Naeem Al-Aboudi, honored representatives of forty-five universities and governmental and private colleges who participated in the Fine Arts Festival. He reviewed the various artistic activities in the fields of drawing, sculpture, and plastic arts, and toured the corridors of the art exhibition that hosted a gathering. From the creative participants.



- **The scientific exhibition of software opens for preliminary studies students of the Information Technology Department at the College of Administrative Technology: <https://atu.edu.iq/?p=21519>**



The President of Al-Furat Al-Awsat Technical University opened the software exhibition for the initial studies students of the Information Technology Department at the Kufa Administrative Technical College, which was held in the corridors of the college. Al-Zuhairi, for his part, saw directly the students' projects, which included 27 projects in different programming languages simulating various applications such as artificial intelligence programs, the Internet of Things (IOT), human resources and marketing programs. Students from Imam al-Kadhim College, peace be upon him, Department of Computer Engineering, also participated in the exhibition. The President of the University expressed He expressed his admiration for what he saw of promising software projects for students that qualified them to enter the labor market armed with applied scientific projects. His Excellency added that the first step to developing and building society and correcting the course in all fields begins with the university, represented by its professors, students and technical staff. Thanking the sincere efforts of the Dean of the College and the head of the Information Technology Department, the professors and students, wishing everyone further development and creativity. Al-Zuhairi





expressed his admiration for the research and projects submitted by students in all disciplines, including research related to information and communications technology, which has entered into all areas of daily life, especially in light of the digital revolution that the world is witnessing. The Dean of the College also extended his thanks and gratitude to the President of the University for his continued support of the College and his sponsorship of such initiatives and his sound guidance to advance our university and its formations at the local, Arab and international levels. He also thanked all those in charge of this exhibition and the participating students, wishing them success in serving our dear country. While the exhibition was attended by the Assistant President of the University for Scientific Affairs, Professor Dr. Ahmed Ghanem Waday, the Dean of the College, Professor Dr. Fadel Abbas Al-Abidi, and the delegation participating in the exhibition of Imam Al-Kadhim College, peace be upon him, headed by an assistant. The Dean of the College, the representative of the Executive Director of Al-Dhakra Company, Mr. Haider Al-Sudani, and the directors of the Department of Scientific Affairs and Continuing Education, as well as the presence of the assistants, department heads, and a number of teaching staff, associates, and students.

- **Al-Furat Al-Awsat Technical University concludes a memorandum of understanding with the Pioneers of Iraq Organization for Business Development... and Al-Zuhairi attends the signing ceremony:**
<https://atu.edu.iq/?p=21829>



The President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, attended the signing ceremony of a memorandum of understanding between the university and the Iraq Pioneers Organization for Business Development (an organization registered in the Department of Non-Governmental Organizations in the Council of Ministers). The memorandum was signed by Professor Dr. Ahmed Ghanem Wadai, Assistant to the University President for Scientific Affairs, on behalf of the university. About the organization, its president, Mr. Jaafar Muhammad Kazem. In his speech, the University President pointed out the importance of qualifying graduates to engage in work and the



SDG17: Partnership for the Goals

university's ongoing efforts in this field, including establishing the Advisory Council for the Work Field and holding a job fair, in addition to holding many qualifying courses and workshops for students and graduates. The memorandum aims to provide free scholarships to train university graduates and qualify them to obtain job opportunities suitable for their specializations in the private sector. The organization is also interested in training students in many fields such as networks, information technology, digital marketing, optical cable, and others. It is noteworthy that the organization provides trainers from private sector companies, while the university provides all training requirements, including halls, display devices and computers, and organizes the participation of students and graduates from its various formations in training courses. While the Division of Rehabilitation, Employment and Follow-up at the University Presidency is communicating and coordinating with the organization to implement the memorandum. The signing ceremony was attended by the Director of the Scientific Affairs Department and the Director of the University President's Office.

- Al-Furat Al-Awsat Technical University organizes the University Festival of Divination Ceremony and Recitation: <https://atu.edu.iq/?p=20635>





SDG17: Partnership for the Goals

Under the patronage of the President of the Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, the Student Activities Department organized the university festival for divination and recitation (male and female students), which was hosted by the Babylon Technical Institute. The festival began with the playing of the Iraqi national anthem, the reading of Surat Al-Fatiha, and the speech of the Dean of the Institute, Professor Dr. Iman. Muhammad Abdullah Al-Musawi. Director of the Student Teaching Activities Department, Naseer Ahmed, stated that the festival aims to discover the promising creative student energies and provide our university's formations with them to be present in the management of its celebrations. It is noteworthy that the festival was held within the department's annual curriculum for the second semester and with the participation of all university formations. Among those who attended The opening ceremony was attended by a large number of faculty members, associates, students, and all members of the student activities division in the university's formations. In the same context, the jury announced the results of the contestants in the festival, and they were as follows:

*Students? First place: Student Abdul Amir Ibrahim from the Technical Institute / Kufa

Second place: Student Muqtada Qasim from the Technical Institute / Najaf.

Third place: Student Hussein Hazem from the College of Engineering Technology.

Third place, repeated: Student Muhammad Muwaffaq from the Technical Institute/Karbala.

*Female students: *First place: Student Narges Sadiq from the Engineering Technical College/Najaf

Second place: Student Malak Safaa from the Technical Institute/Babylon

Third place: Alia Lafta Aliwi from the Technical Institute / Diwaniyah.

Third place, repeated: Student Fatima Ahmed from the Technical Institute/Al-Musayyib.

At the conclusion of the festival, prizes and certificates of participation were distributed to the students and a number of shields to the members participating in the festival.

- **Al-Furat Al-Awsat Technical University wins first and third place in the Qur'anic competition for Iraqi university students:**
<https://atu.edu.iq/?p=21448>



SDG17: Partnership for the Goals



Al-Furat Al-Awsat Technical University won first place, first place, and third place in the Qur'anic memorization and recitation competition for Iraqi university students, which was held by the Holy Abbasid Shrine, where more than (60) reciters and memorizers from various public and private universities participated in the competition. Lecturer Naseer Ahmed Kamel, Director of the Student Activities Department, stated, "This competition is held by the al-Abbas Shrine on an annual basis, and our university participates in it constantly, stressing that the support of the President of the University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, for our students has a great impact in discovering their creative abilities and enhancing the spirit of belonging and loyalty to the university, which is loyalty to Iraq and achieving The university's endeavor to be at the forefront of Iraqi universities, as well as the direct follow-up by the Assistant President of the University for Administrative Affairs, the respected Professor Dr. Muhammad Abdul Mohsen Al-Maktoumi, is reflected positively in achieving advanced ranks for the university. It is noteworthy that the participation of our university was represented by a number of students from the university's faculties and institutes, so that the student, Ali, obtained first place. Muhammad Abd Nahi from the Najaf Technical College of Engineering, while third place was won by student Abd al-Amir Ibrahim from the Kufa Technical Institute.

Al-Furat Al-Awsat Technical University initiate and participate in cross-sectoral dialogue about the SDGs, e.g. conferences involving government/NGOs as the following:

- **Holding 1st International Conference on Achieving the Sustainable Development Goals:** URL:<https://atu.edu.iq/?p=23206>
- **Holding 3rd International Conference on Engineering and Science :** URL:<https://atu.edu.iq/?p=23019>



- **Fourth international scientific conference for civil and architectural engineering sciences in partnership with Cihan University - Erbil** URL:<https://atu.edu.iq/?p=23185>

Description: Al-Furat Al-Awsat Technical University in Erbil held its fourth international scientific conference for civil and architectural engineering sciences in partnership with Cihan University - Erbil for the period 20-21 December 2022. The opening ceremony was attended by the President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, and the President of Cihan University-Erbil, Professor Dr. Amjad Al-Dalawi, representative of the Ministry of Higher Education and Scientific Research in the region, and a number of professors and researchers from Iraqi universities in the center and the region, in addition to the electronic presence via live broadcast of a number of researchers and members of the university's formations. Al-Zuhairi, at the opening ceremony, gave a speech in which he pointed out the importance of scientific research, especially in developing Communities, building civilization, and overcoming the crises that afflict the world in general and Iraq in particular, where the challenge of providing a sustainable and safe environment for billions of people around the world comes first, especially with the steady increase in the population compared to the decrease in available resources, and this conference comes in response to addressing a set of those challenges, especially since The conference presented (29) working papers, including papers outside Iraq and presented at universities (Germany, Russia, Turkey, Malaysia, San Marino), while (21) working papers were presented from Iraqi universities in the center and the region, and five key speakers were approved for this conference. Scientific conference, three of them from Brazil, Turkey and the United Arab Emirates, and two others from Iraq. The conference topics included topics of sustainable and environmentally friendly building industry, urban planning of cities, building and construction materials, and highway engineering, in addition to other topics in the field of structural and architectural engineering, all of which aim to achieve Sustainability. Al-Zuhairi also indicated in his speech that the university has achieved a good start in building real partnerships in various aspects of performance, especially the scientific research movement, as the number of research published in the Scopus database reached more than (1800) research. The university also adopts in its policy the encouragement of researchers, which contributed to the university's entry into A number of prestigious international classifications and advanced positions. He also stressed that the university encourages scientific, technical and applied research that addresses real problems in various sectors of society, hoping that these conferences and workshops will be a good start for building real partnerships between the two universities in a way that serves the educational process. At the end of his speech, the university president directed His thanks and appreciation to all the preparatory, scientific, media and supporting committees from both universities for their good efforts to accomplish this qualitative conference. While a documentary film was shown about the university, which dealt with the most prominent activities and initiatives that the university has accomplished recently in the field of construction and reconstruction, and the comprehensive and ongoing reconstruction campaign the university is witnessing, in addition to showing a film about Cihan University - Erbil. The opening session also included the presentation of working papers by the main speakers from the university. Ajman - UAE and the University of



Kurdistan - Erbil, in addition to papers submitted by universities in Turkey and Brazil and researchers from Iraqi universities in the center and the region. At the conclusion of the activities of the first day of the conference, the President of the University extended his thanks and appreciation to all the professors, researchers and graduate students who contributed to enriching the conference. In the same context, Al-Zuhairi presented a souvenir containing the university's most important landmarks to the President of Cihan University, Dr. Amjad Al-Dalawi, the representative of the Ministry of Higher Education and Scientific Research in the region, and a number of general directors in the region

Photos:



- **President of the Iraqi Contractors Union / Najaf Al-Ashraf Branch, hosted by Al-Furat Al-Awsat University... and a memorandum of cooperation was concluded between the two sides.**

URL:<https://atu.edu.iq/?p=23165>

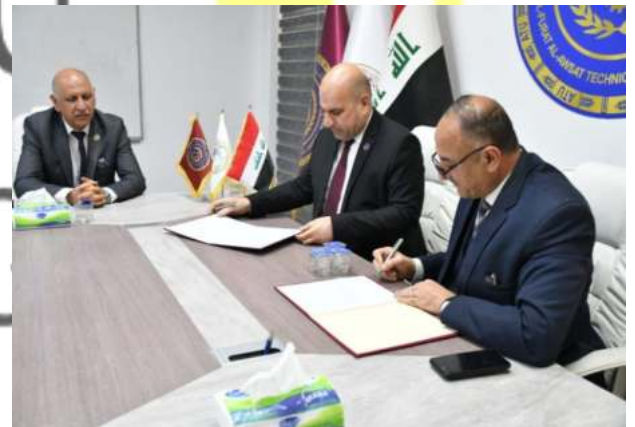
Description: The President of the Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, received in his office the President of the Iraqi Contractors Union, Najaf Al-Ashraf Branch, the consulting engineer, Mr. Abbas Abdul Amir Abu Shabaa. During the meeting, the prospects for cooperation and partnership between the university and the Iraqi Contractors Union were reviewed. For his part, the President of the University, Professor Dr. Muzaffar Sadiq Al-Zuhairi stressed the importance of communicating with the labor market and its various institutions, including the Iraqi Contractors Union. He referred to the decision of the Ministry of Higher Education and Scientific Research to adopt the Bologna Pathway System for Education in Technical Universities, which enhances the participation of the private sector in the educational and training process in the university's colleges and institutes. Engineer Abbas Abu Shabaa



SDG17: Partnership for the Goals

expressed the Iraqi Contractors Union's readiness to train and qualify students and graduates and provide them with job opportunities. On the sidelines of the visit, a memorandum of understanding was signed between the two sides, which included a set of measures to consolidate the relationship between them and enhance the Union's presence in the university's scientific and community activities in a way that raises the scientific and skill level of graduates of colleges and institutes. The University. In addition to facilitating the task of training and employing them in various contracting companies, training workers in the field of contracting in the Continuing Education Center at the University Presidency, and providing consultations through the scientific and advisory services offices at the University Presidency and its formations spread across the governorates of the Middle Euphrates. The signing ceremony was attended by the Scientific Assistant, Professor Dr. Ahmed Ghanem Waday, the Dean of the Rumaitha Institute, Professor Dr. Qahtan Adnan Al-Fatlawi, Professor Ali Abdul Hussein Al-Zalmi, Director of the Scientific Affairs Department, and a number of directors of the relevant departments in the university presidency.

Photos:



-A cooperation agreement with Imam Jafar al-Sadiq University (peace be upon him)...to enhance the prospects for joint scientific and cultural cooperation.

URL: <https://atu.edu.iq/?p=22957>

Description: Within the approach of openness and communication with Iraqi, Arab and international universities, and in order to consolidate the bonds of cooperation in the academic, scientific and research fields between public and private universities...the President of the University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, signed a joint scientific and academic cooperation agreement with the President of Imam Jaafar Al-Sadiq University, peace be upon him, Professor Dr. Riyadh Khalil Ibrahim. The agreement aims to enhance the prospects for joint scientific and cultural cooperation between the two universities in a way that enhances the status of Iraqi universities and improves the scientific and educational reality in them and among their counterparts in the



SDG17: Partnership for the Goals

countries of the region and the world, in the presence of academics and specialists from both universities. The agreement included the exchange of experiences, training and consultations in areas of common interest in order to achieve common goals and vision for both universities, in addition to developing curricula in corresponding specializations and laying the foundation for cooperation in the field of training and development of teaching and technical bodies through holding mutual courses and reviewing modern educational programmes. The agreement covered Providing the necessary facilities for both parties in the field of establishing and implementing studies and research projects, such as workshops, courses, and joint scientific conferences. The agreement stressed the necessity of cooperation in the field of scientific research, fostering creativity and innovation, and cooperation in the field of developing laboratories and laboratory equipment, as well as exchanging student visits and participating in scientific activities, events, and events organized by each party. On a related note, Al-Zuhairi accompanied the visiting delegation on a reconnaissance tour of the university's corridors and its most important projects recently implemented to achieve the goals of comprehensive sustainable development for a model and attractive university environment. It is noteworthy that the agreement was held in the presence of the scientific and administrative assistants of the university's president, the dean of the Engineering Technical College of Najaf, and a number of department directors in The presidency of the university, as well as the presence of the Assistant Dean of the Faculty of Information Technology and the Head of the Communications Department and the Computer Technology Engineering Department at Al-Sadiq University, peace be upon him, Najaf Al-Ashraf.

Photos:





-Participates in the opening of the proceedings of the First International Conference on Sustainable Development Technologies, which was organized by the Northern Technical University:
<https://atu.edu.iq/?p=21795>

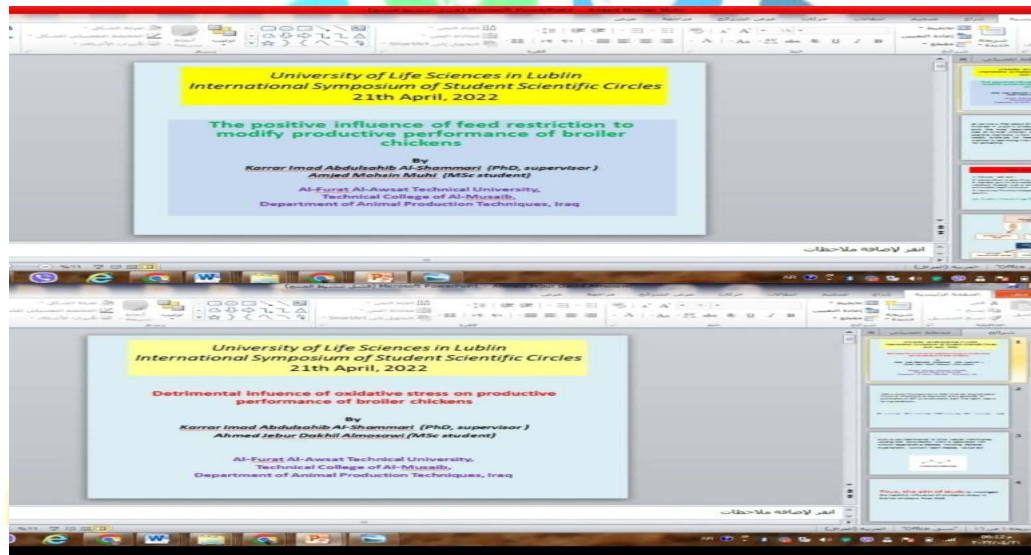


- Under the slogan of tourism, a national identity and a way to achieve sustainable development... ATU participates the second Spring Tourism Festival at the Karbala Technical Institute:
<https://atu.edu.iq/?p=21612>





- AL-Furat AL-Awsat Technical University participates in a virtual symposium in Poland: <https://atu.edu.iq/?p=21441>





SDG17: Partnership for the Goals



CERTIFICATE
OF ACTIVE PARTICIPATION

**in 3rd International Symposium of Student
Scientific Clubs
„Environment-Plant-Animal-Product”**

Mr Karrar Imad Abdulsahib Al-Shammari

presented a paper in the Section of Animal Breeding and Usage:
*“The positive influence of feed restriction to modify productive
performance of broiler chickens”*



Vice-Rector for Student Affairs and
Education

Organising Committee Chairman

Urszula Kosior-Korzecka
dr hab. Urszula Kosior-Korzecka, associate
professor

Marek Babicz
prof. dr hab. Marek Babicz



The two research papers tagged:

1- The positive influence of feed restriction to modify productive performance of broiler chickens. The positive effect of food rationing to modify the productive performance of broiler chickens. 2- Detrimental influence of oxidative stress on productive performance of broiler chickens. The harmful effect of oxidative stress on the productive performance of broiler chickens, in III. International Symposium of Student Scientific Clubs The third international symposium for student scientific clubs, which was held by the University of Life Sciences in Lublin and via the Zoom platform in Poland, with the participation of researchers from Poland, Ukraine, and Germany. The symposium aimed to shed light on the scientific aspects and exchange experiences related to improving animal performance and Plants and the environment in which they live.



-Al-Furat Al-Awsat Technical University participates in the Bologna Process implementation meeting in Erbil: <https://atu.edu.iq/?p=21737>



As part of Al-Furat Al-Awsat Technical University's ongoing endeavor to enhance and raise the educational level of its students and graduates, and to work to prepare academically and professionally qualified graduates with experience and skills that qualify them to engage in the labor market, the university participated with a delegation headed by the Assistant President of the University for Scientific Affairs, Professor Dr. Ahmed Ghanem Waday, and



SDG17: Partnership for the Goals

the Director of the Quality Assurance and University Performance Department, Assistant Professor Dr. Ali Najah Kazem and the official of the Learning Laboratories Quality Division, teacher Hussein Abd Ghazi Jaaz, at the meeting of the quality plan to implement the Bologna process, with the participation of seven Iraqi universities, under the supervision of UNESCO, and in the presence of Professor Dr. Alaa Abdel Hassan, advisor to His Excellency the Minister of Higher Education and Scientific Research, to present and discuss the latest developments and the steps it has taken. The university is in the field of implementing the path, which it is hoped will begin implementing its outcomes at the beginning of the next academic year 2022-2023. The sessions included the presentation of a working paper for our university in which the quality plan that had been completed, its details, and the extent of its compatibility with the requirements imposed by the labor market were presented, as well as achieving a solid academic program and building bridges of global partnership in the field of modernizing university education programs and systems.

Forging emerging partnerships with Arab and international countries, as in the visit of the European Union ambassador, the expert from UNESCO, and the Bahrain Consul, to develop sustainability goals and prepare the data and infrastructure required to achieve sustainability.





SDG17: Partnership for the Goals



- **Al-Furat Al-Awsat Technical University Signs a memorandum of understanding with the University of Tabriz in Iran:**
<https://atu.edu.iq/?p=23254>





SDG17: Partnership for the Goals

Within the approach of openness and communication with international universities, including those in the regional environment, the President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, signed a memorandum of scientific and cultural understanding with the University of Tabriz in the Islamic Republic of Iran. Al-Zuhairi, at the beginning of the signing ceremony, expressed his thanks and appreciation to the presidency of the University of Tabriz for hosting a university delegation. Al-Furat Al-Awsat Technical College, while providing a comprehensive explanation of the university's vision, mission, goals, and scientific specializations that it deals with, indicating that the university focuses in its philosophy on providing its graduate students with the skills required by the labor market, as well as the soft skills that are not covered by academic vocabulary, through the Rehabilitation and Employment Center and the Education Center. Al-Zuhairi also referred to the research activity and scientific conferences organized by the university and the international classifications in which it registered a presence during recent years. Al-Zuhairi: The signing of the memorandum came in harmony with the policy of the Ministry, represented by His Excellency the Minister of Higher Education and Scientific Research, in building scientific and cultural relations with reputable universities in order to achieve The desired benefit from joint cooperation, introducing the capabilities of Iraqi universities, and improving their reputation in international forums. In his speech, the President of the University of Tabriz, Professor Dr. Nasrallah Zadeh, welcomed the visiting delegation and then presented a historical overview of the university, its formations and the scientific achievements it has achieved throughout its long history that extends to the 1940s, hoping that the memorandum of understanding will benefit both parties. The memorandum addressed the possibility of exchanging experiences. Scientific research through exchanging professors to conduct research, scientific meetings, giving lectures, and discussing theses and dissertations, as well as supporting scientific projects and training programs. The memorandum stressed the strengthening of cooperation in the field of authorship and publication of joint scientific research in reputable journals within international scientific bodies, in addition to attending conferences, seminars, workshops, scientific and cultural competitions, and participating in scientific activities and events organized by the two universities. The proceedings of the memorandum were attended from the Iraqi side by both the scientific assistant. For the President of the University, Professor Dr. Ahmed Ghanem Waday, the Director of Scholarships and Cultural Relations, Dr. Hashem Ali Hasab, the Director of the University President's Office, Mr. Moin Mohsen Al-Rubaie, and the Director of the Oversight and Audit Department, Mr. Mustafa Sabah Jihad. On the Iranian side, the Scientific Assistant, the Director of Scholarships and Cultural Relations, and a number of those concerned with the university presidency attended. . At the conclusion of the signing ceremony, souvenirs were exchanged between the two sides.



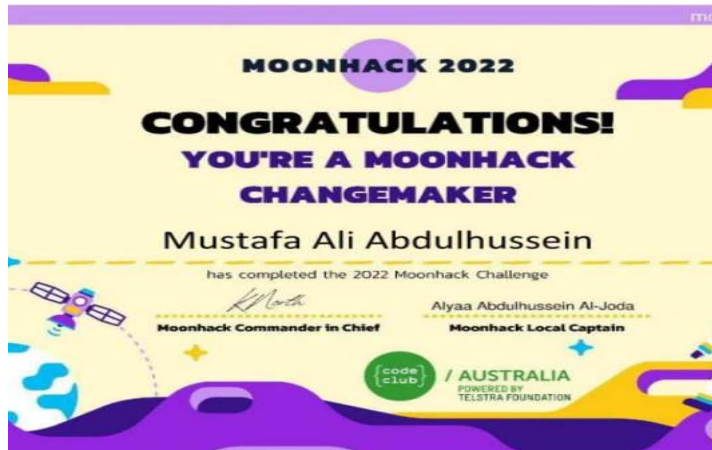
-Opening horizons for joint scientific cooperation with the Ministry of Commerce: <https://atu.edu.iq/?p=20152>



A delegation from the Ministry of Commerce visited the presidency of Al-Furat Al-Awsat Technical University to open the horizons of joint scientific cooperation. They were received by the Assistant President of the University for Scientific Affairs, Professor Dr. Ahmed Ghanem Waday. The two sides discussed holding courses and seminars to develop the skills of Ministry of Commerce employees, by applying international quality standards, while Wadi accompanied the delegation on an exploratory tour of the Continuing Education Center and learning about the center's working mechanism. For its part, the delegation expressed its admiration for the center's work and the modern technology it follows in the training mechanism.

-World Space Week workshop: <https://atu.edu.iq/?p=22804>





The Calculator Center / Programming Club at the College of Engineering Technology / Najaf, in cooperation with the College's Continuing Education Unit, held a workshop in the hall of the Continuing Education Center at Al-Furat Al-Awsat Technical University, in which the official of the Calculator Center Division and the leader of the Programming Club, Najaf branch, M.D., attended. Alia Abdel Hussein Lafta, head of the Continuing Education Unit and member of the club at the college, M.M. Fatima Muhammad Kazem. The workshop included the celebration of World Space Week, which is an annual event celebrated all over the world for the period October 4-10, with the first date being October 4. The first is the launch of the first man-made Earth satellite (Sputnik 1). October 10 is the anniversary of the signing of the Outer Space Treaty. On this occasion, the Programming Club (Najaf Technical College) was registered as a host to celebrate the event in Iraq, in cooperation with the Programming Club (Code Club Australia and Telstra Foundation) in Australia and under the slogan (#Space_and_Sustainability). The workshop was held for children and youth aged (6-17) years. During the workshop, the participants were introduced to the occasion and a group of events related to space were presented and linked to achieving the sustainable development goals to achieve the slogan of Space Week. One of the dedicated projects was programmed. For this occasion, the participants wrote in the Scratch language. The project included creating a game that simulates the process of returning a satellite to its orbit around the Earth. The participants received an international certificate from the Australian Programming Club and gifts provided by the Programming Club at the college, in the presence and participation of the honorable President of Al-Furat Al-Awsat Technical University and the Dean of the College of Technology. Engineering / Najaf Al-Muharam.



-Opening horizons for cooperation with the community:

<https://atu.edu.iq/?p=22211>



As part of the directions to open horizons of cooperation with society, Dr. Saba Jawad Abdel Kazem from Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University participated in delivering the extension symposium (Using good fruit varieties and their impact on agricultural marketing) in cooperation with the extension training center in Babylon / the extension farm in Al-Mahawil and within the extension program. To market fruits and vegetables, a symposium was held that aimed to learn about the multiplication of seeds, varieties, strains and hybrids of local vegetable crops, and the national program as well as the different types and varieties of fruits and olives, in coordination with the Mahaweel Horticulture Station and a number of nearby departments. The symposium included several topics, the most important of which were how to choose the appropriate varieties to be grown in the region, The importance of choosing the area to establish fruit orchards is determined by several environmental factors, agricultural marketing objectives and the extent of local production concentration to and from central markets to transport varieties to consumption centres, which in turn determines supply and demand, the dimensions of cultivation and the engineering planning of the orchard, in addition to the agricultural service operations that are It has a significant impact on improving the quality of the variety to be grown in terms of shape, size and taste, as well as talking about the modern methods used in marketing good and new varieties and how to preserve them.



- **Al-Furat Al-Awsat Technical University participates in a course as a contribution to raising the agricultural situation:**
<https://atu.edu.iq/?p=20278>



As part of the information exchange program between Al-Musayyib Technical College at Al-Furat Al-Awsat Technical University and government departments, and as a contribution to raising the agricultural situation, Dr. Hadi Abdel-Jalil Naas from Al-Musayyib Technical College participated as a lecturer in the expanded course held by the extension farm in Al-Mahawil on (optimal use of fertilizers according to growth stages), which It lasted for two days, as part of the awareness program supporting the wheat crop, for the season (2021/2022). The course aimed to educate farmers about the quantity and time of adding fertilizer, its quality and fertilization dates, and the importance of weed control, its timing and type of pesticide, according to the type of weed and the appropriate quantity. The training course included several The most important dialogue was introducing the importance of the fertilization process to the wheat crop, and the types of fertilizers used in the fertilization process, and raising awareness of the necessity of adhering to the guidance instructions when adding fertilizers to the wheat crop, especially adding them in batches.

As well as the optimal date for carrying out the fertilization process, and raising awareness of the necessity of adhering to the specified quantities, in order to reduce costs and increase the economic returns for farmers, indicating the types of pesticides used for bushes, and the methods of using them. The session included a discussion of problems



and obstacles for wheat farmers. It was also recommended to take into account the prescribed percentages of pesticides during control. Otherwise, misuse will lead to the emergence of a type of bush that is resistant to pesticides. (19) farmers and engineers with specializations participated in the course.

- **Al-Furat Al-Awsat Technical University participates in the Siblings Meeting Festival for various hobbies and crafts in its nineteenth session: <https://atu.edu.iq/?p=23124>**



Under the sponsorship of the Ministry of Culture, Tourism and Antiquities and in cooperation with the Ministry of Higher Education and Scientific Research, Al-Furat Al-Awsat Technical University participated in (the Siblings Meeting Festival for various hobbies and crafts in its nineteenth session) under the slogan (Let us shout loudly for Baghdad, civilization and peace). The festival, which was opened by the Undersecretary of the Minister of Culture, Dr. Qasim

Al-Sudani, was With the participation of many Iraqi ministries, universities, departments of various state institutions, civil society organizations, and the private sector, it was attended by a large crowd of intellectuals, media professionals, satellite channels, volunteer teams, and professors and students of universities, institutes, schools, and kindergartens.

The festival, which was in coordination with the Departments of Student Activities, Media, and Public Relations, was held in the corridors of the International Station in Baghdad, and the university's participation in it was represented by a delegation from Al-Musayyib Technical College, which included a number of professors, students, and the media. Al-Sudani reviewed the products and exhibits of the university's pavilion and listened to a detailed explanation from our students about their initiatives. And their own projects that aim to advance the reality of the service sectors in the field of work. The university's participation was represented in the arts of drawing, handicrafts, patents, student initiatives, poetry, and theatrical performances. Our students' throats also



SDG17: Partnership for the Goals

resonated with poetic poems, which were well received by the attendees. It is worth noting that the festival is considered the largest cultural, artistic, heritage, and tourism event. It aims to build bridges of communication between amateurs from Baghdad, all governorates and Arab countries, and includes Arab and foreign participation, and includes displays of textile industries, the manufacture of traditional clothing, accessories and jewellery, a display of collections of postage stamps, and plastic paintings, as well as ceramic works, sculpture, miniature making, and honey preparation. And vegetable oils, and a display of posters, books, publications and the flower industry. These activities were accompanied by theatrical and sports performances, chants, chants, and poems that sang of love for the homeland.

- **Launching the activities of a workshop to enhance technical and vocational education and training programs for the construction sector in technical higher education institutions in Iraq:**
<https://atu.edu.iq/?p=22711>



The activities of the workshop to enhance technical and vocational education and training programs for the construction sector in Erbil were launched on Sunday, 10/23/2022, with broad participation from technical universities from the center and the region. The President of the University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, headed the delegation participating in the workshop organized by the UNESCO office in Iraq with the support of the European Union. In his opening speech, Al-Zuhairi touched on the urban renaissance that the university is witnessing in all fields, including the field of construction and reconstruction. He talked about the support that was provided to this sector through modernizing laboratories, supplying them with modern equipment, and obtaining local and international accreditation for a number of laboratories, in addition to training the technical and teaching staff on Using these



SDG17: Partnership for the Goals

technologies. He also pointed out that the building and construction sector is considered one of the important basic sectors, especially in light of the growing population, which requires the construction of many related projects, especially residential and service complexes and the infrastructure attached to them. Pointing out that revitalizing this sector will contribute to creating job opportunities. It is a major initiative for all supporting circles over the coming years. Al-Zuhairi explained that the workshop aims to raise the level of awareness of the results of the first phase of the technical and vocational education and training reform project, and to increase the participation of employers through the exchange of experiences as well as identifying gaps in capabilities related to implementing the principles of education governance requirements. It is mentioned that The workshop will last for three days for the purpose of providing a platform to share what has been accomplished in the first phase of the education and training reform project. It should be noted that the university delegation included the Scientific Assistant to the University President, a number of gentlemen, deans of formations, and the director of the Department of Construction and Projects in the University Presidency.

- **The stars of the Iraqi national team in 1986 and the champions of the Asian Cup in 2007 at Al-Furat Al-Awsat Technical University:**
<https://atu.edu.iq/?p=23098>





SDG17: Partnership for the Goals

Under the patronage of the President of Al-Furat Al-Awsat Technical University, Professor Dr. Muzaffar Sadiq Al-Zuhairi, the Student Activities Department at the University Presidency organized an exhibition match between the university's teaching team and the Iraqi national team of 1986 and the 2007 Asian Cup champions. The exhibition match was in the presence of the President of the University and the advanced staff of the University Presidency and the teachers. And a large crowd of students, as the audience enjoyed the artistic and skillful touches presented by the national team in the match arena. This sporting activity is considered unique in its kind by hosting an elite group of Iraqi national team players in the closed sports hall after it was opened in its new look last week. The team players expressed this. The Iraqi National Team expressed their great happiness for a university like Al-Furat Al-Awsat Technical University to host such an enjoyable sports carnival, and they praised the university's progress in opening projects that serve students scientifically, athletically, and artistically to hone their skills and identify student talents. In the same context, the players of the Iraqi national team thanked the university presidency for the interest. The great effort in rehabilitating the indoor sports hall with high-quality specifications qualifies the university to host the events of the Central Iraqi Federation of Futsal, Basketball and Handball. The result of the exhibition match resulted in the victory of the national team with six goals against four goals in favor of the teaching team (6-4).



Collaborate with Organizations of Women's Rights & Elderly Care
(Al-Furat Al-Awsat Technical University, Iraq)



SDG17: Partnership for the Goals

