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/afjias
- 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

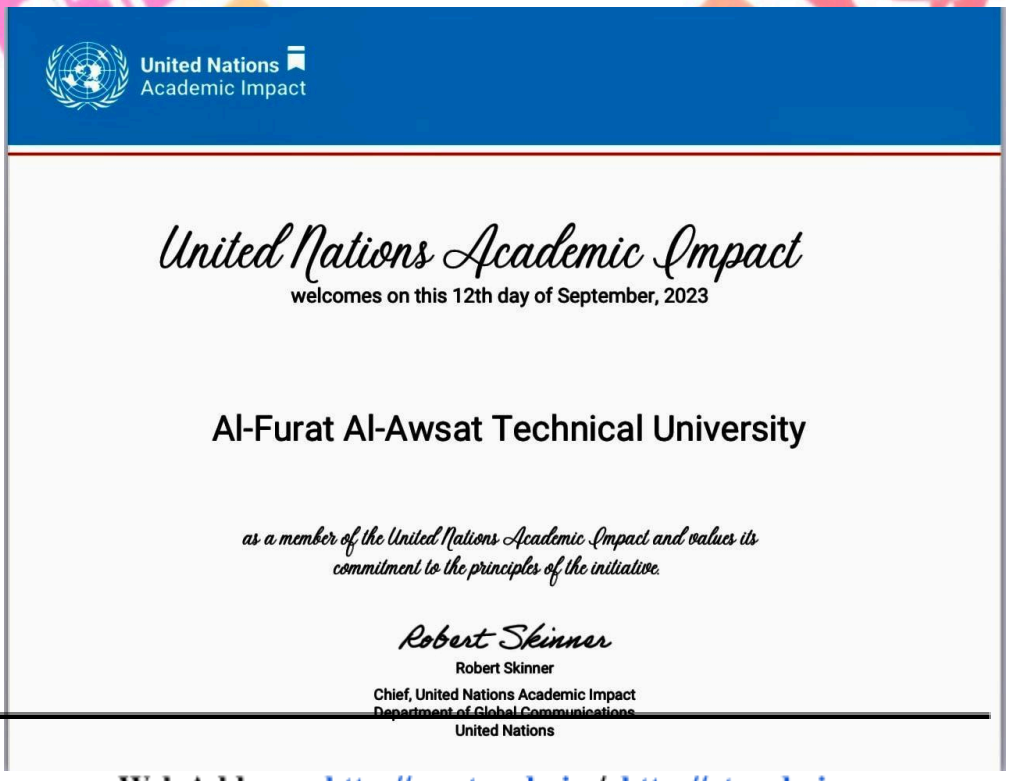
3.3. ATU Library:

- 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

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
husseinawad@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.

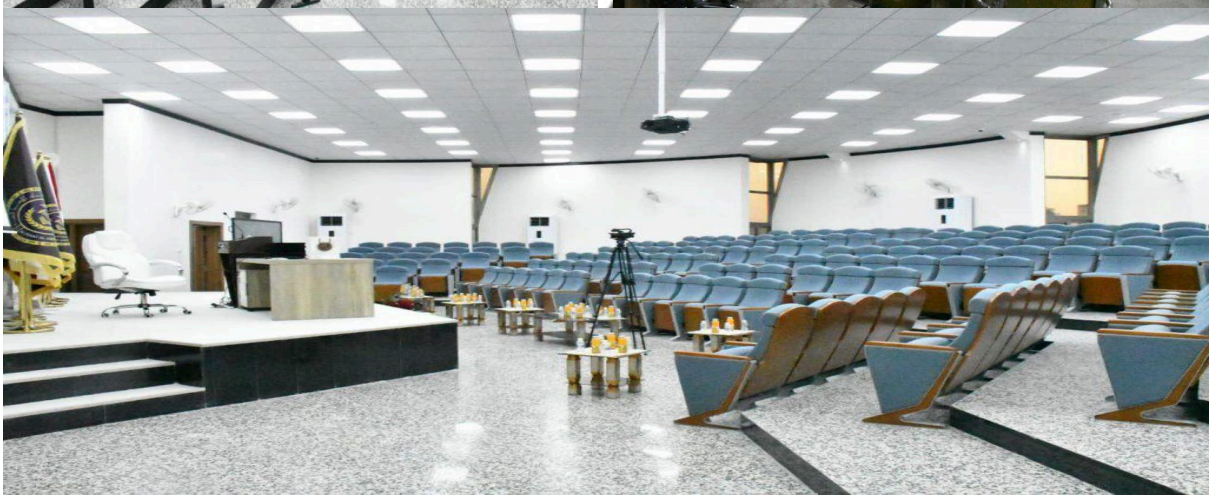
The Bologna path is characterized by the ability to adapt to labor market variables and constitutes a cornerstone in building a true partnership with the labor market in various sectors (public/private/mixed), especially since representatives of these sectors will have an active role in one way or another 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



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 educationIn 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

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 Diwaniyah 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.

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) andA 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

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

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=6608
https://isa.atu.edu.iq/?page_id=305

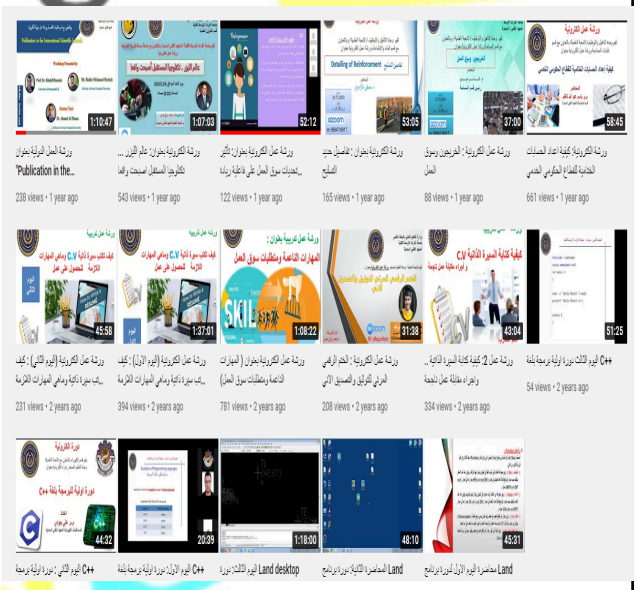
4. Free access for Lectures (Al-Furat Al-Awsat Technical University,Iraq)

Online teaching and classes recording room studio

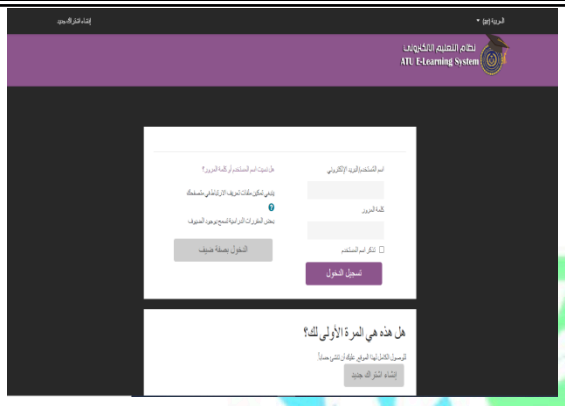
ATU has set goals toward more productive methods to engage students in many classes. All campus locations are now provided with such techniques to record and stream live classes.

For more details about the teaching studio
https://www.facebook.com/79adnan/videos/512758403963422

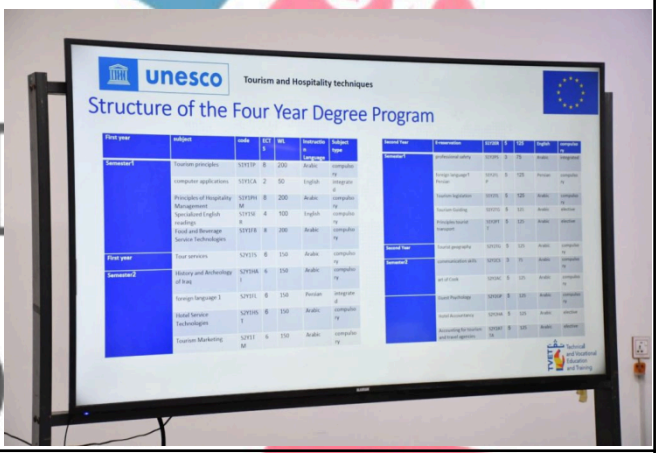
Rules of E-Learning
(Al-Furat Al-Awsat Technical University,Iraq)



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



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



Working on applied Bolonga 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)

E-Learning

Al-Furat Al-Awsat Technical University Switching it 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

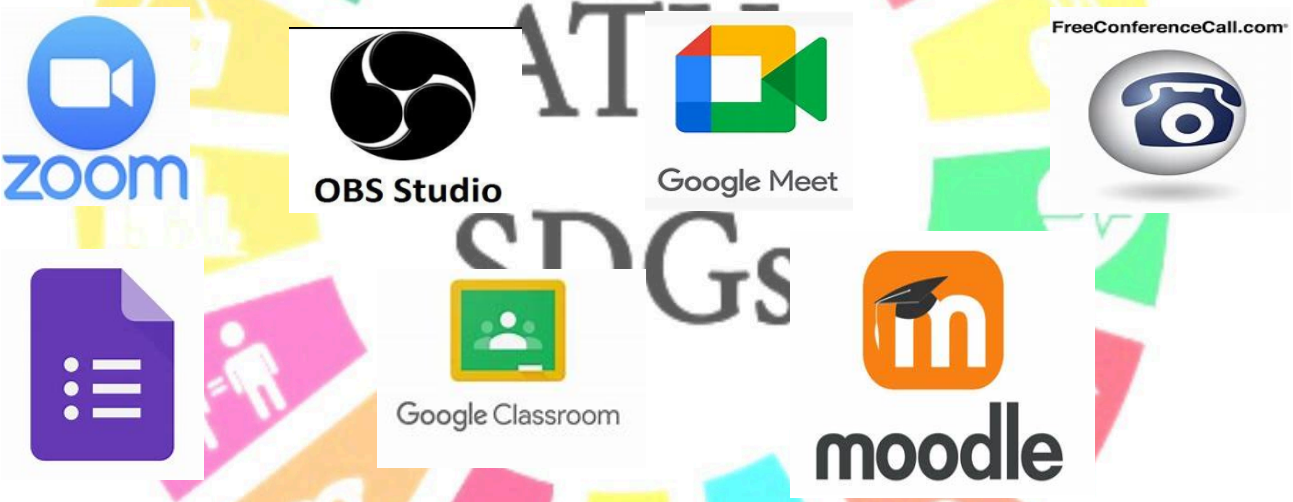
Moreover, different International and local workshops, and courses were made electronically and now the university still depends on E-application in some of its courses, workshops, and meetings

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

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/UCspR7h6fe217HXPE4ao4I8g/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=6608**
- **Scientific Exhibition for students:**
- **https://atu.edu.iq/?p=18353**