

University : Northern Technical University  
Country : Iraq  
Web Address : <https://www.ntu.edu.iq>

### 13.3.5 Does your university as a body collaborate with NGOs on climate adaptation?

- ❖ The Northern Technical University, in partnership with SOLIDARITÉS INTERNATIONAL and Humat Dijlah organized a workshop in the Continuing Education Department during which it reviewed the goals and outcomes of the project “Building the Capacity of Civil Society and Local Actors in Ninewa Governorate to Improve Water Resources Management in the Context of Climate Change in Iraq.”

The attendees discussed environmentally friendly initiatives adapted to climate change, innovative experimental solutions related to water, and the role of the Northern Technical University in enhancing community awareness and disseminating innovative and smart agricultural techniques to farmers to reduce the effects of drought in Sinjar and Tal Afar.

This workshop is supported by [AFD](#) and in partnership with SOLIDARITÉS INTERNATIONAL & Humat Dijlah and in cooperation with the Northern Technical University as part of an integrated project to “capacity building of civil society and local actors in Nineveh Governorate to improve water resources management in the context of climate change in Iraq.”



- ❖ In Nineveh Governorate, Sinjar District, Solagh Village, we succeeded in organizing 8 awareness sessions targeting 104 women of different ages. The women showed great interaction during these sessions, as they expressed the environmental problems they suffer from.

The most prominent of these issues was the problem of water scarcity and the absence of equitable distribution, which prompted many of them to demand other, more sustainable solutions that would guarantee their access to water. Some women also expressed their concern about using springs and ancient irrigation methods to irrigate agricultural lands, while others stressed the importance of supporting livestock and providing fodder.

We are committed to supporting women in Nineveh, because women are a fundamental pillar of society, and they are able to make a difference.

With support from [AFAFD - Agence Française de Développement](#) and in partnership with SOLIDARITÉS INTERNATIONALE and in cooperation with the Northern Technical University, Humat Dijlah (HD) Association is implementing the project “Capacity building of Civil Society and Local Actors in Nineveh Governorate to Improve Water Resources Management in the Context of Climate Change in Iraq.”







**Venue |**  
Sulaimani- Grand Millennium Hotel  
Sulaimani, Iraq

**Organizer |**  
The conference is organized by  
Northern Technical University:  
\* College of Oil & Gas Techniques  
Engineering / Kirkuk .  
\* Kirkuk Technical Institute .  
\* University Putra Malaysia (UPM), Malaysia  
\* Sulaimani Polytechnic University, Iraq.

**Conference Chair |**  
Prof. Dr. Alyaa Abbas Ali Al-Attar, President of  
Northern Technical University

**Conference Co-Chairs |**

- Asst. Prof. Dr. Omar R. Alomar, Vice  
President of Scientific Affairs, Northern  
Technical University.
- Asst. Prof. Dr. Obed Majeed Ali, Dean  
of Collage of Oil and Gas Technical  
Engineering / Kirkuk.
- Asst. Prof. Dr. Ashti.M. Arif, Dean of  
Technical institute Kirkuk.

## Mission

The conference emphasizes on spreading scientific and cultural awareness in the Iraqi society of renewable energy importance and the alternative energy to face the risk of depletion of traditional fuels. As technology evolves, our commitment is to invest in capabilities and capabilities that respond to the priorities of technical education and sustainable development, especially in a world grappling with the challenges posed by climate change.

## Publication

Proceedings of 3rd ICRE 2025 will be published in the following periodicals based on author's preferences:  
AIP, American Institut of Physics, conference proceedings, which is included in Scopus (Elsevier), and the Conference Proceedings Citation Index (part of Web of Science).



## SELECTED PAPERS WILL BE PUBLISHED IN THE FOLLOWING JOURNALS:

1. JOURNAL OF THERMAL ENGINEERING.
2. SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES.
3. PERTANIKA JOURNAL OF SCIENCE AND TECHNOLOGY.
4. ASM SCIENCE JOURNAL.



## Goals

The conference aims to develop new ways and systems to exploit, store, and harness renewable energies in the service of humanity. This Conference, like its predecessors, seeking to presents an opportunity for specialists engaged in the fields of renewable energies and power quality to discuss current progress and future developments and trends in these two important areas, and also in those topics like: electric vehicles, electrical machines and drives, power electronics, control strategies, monitoring and diagnostics, etc, that are connecting with they. Moreover, the conference targeted to exchange information and experience of developments, trends and applications, from researchers, academics and professionals. Topics related to practical applications, operations, maintenance and teaching are also highly encouraged.

## Vision

Our vision revolves around the critical role of technical education in achieving clean and renewable energy utilization goals for current and future generations. In a world where technology is spread everywhere, this conference seeks to promote renewable energy sources, and to benefit from the indispensable nature of technology in daily life.

- ❖ Part of the Northern Technical University's review of the Tree Initiative, one of the projects of the Muthabiron Foundation for Environment and Development, implemented with the Technology and Ecosystem Incubator Department and the Department of Media and Government Communication at the University Presidency, where the lost tree was replanted at the site of the vertical cypress trees in the Presidency. The ceremony included a speech by the University President about the University's strategy in sustainability and the tireless work to increase green spaces and support environmental activities within the university's programs and reach every student with a tree. The President of the [Muthabiron Foundation for Environment and Development](#) added about the Foundation's vision and work this season to plant 20,000 trees as a first phase, completing the previous phases of afforestation operations. The Tree Initiative official, Anas Al-Taie, spoke about the types of trees used within the initiative, which will be planted during the afforestation season.









## # Tree Campaign

Mrs. President of the Northern Technical University, Prof. Dr. Alia Abbas Ali Al-Attar, launches the Tree Initiative from the university's site in Kirkuk by planting olive trees, which are unique in their cultivation in Palestine, in solidarity with our people there, and in conjunction with its launch in the Nineveh forests, with the participation of students from Cordoba Girls' Secondary School, in cooperation with the [Muthabiron Foundation](#) and the Mosul Municipality Directorate.







- ❖ Under the patronage and attendance of the President of the Northern Technical University, Prof. Dr. Alia Abbas Ali Al-Attar, and the Director of the Environment Department, Eng. Sinan Subhi Ali, and the Dean and Assistants of the Dean of the Mosul Technical Institute, and the Directors of the University Presidency Departments, and the Ladies and Gentlemen, Heads of the Mosul Technical Institute Departments, within the environmental [initiatives](#) and part of the activities of [the Shajar Initiative](#), and in cooperation between the Northern Technical University / Technology Incubator and Ecosystem and the Muthabiron Foundation for Good for Environment and Development and the Mosul Technical Institute and the Department of Media and Government Communication in the University Presidency, and with the participation of more than 400 male and female students, an environmental painting was drawn as a message warning of the continuation of the environmental danger due to pollutants by the year 2024, which was clarified by the painting. The painting aims to: -

Highlight the climate, reduce emissions, increase green spaces and afforestation, presented by students of the Northern Technical University / Mosul Technical Institute. The event was covered by more than 24 media channels and institutions.







#### ❖ Continuation of the Tree Campaign

Under the patronage of its President, Prof. Dr. Alia Abbas Ali Al-Attar, the Northern Technical University, represented by the Technology Incubator and Ecosystem Division, is working to plant trees to increase green spaces within the Tree Initiative, in cooperation with the [Muthabiron Foundation for Good for Environment and Development](#). Today, an area of 2 kilometers was planted within the Higher Education Area, with the participation of the Nineveh Environment Directorate and the residents of the neighborhood who contributed by providing irrigation and maintenance pipes 🌲





- ❖ The College of Agricultural Technology organizes a [workshop](#) on climate change and the role of government institutions in reducing its effects.

Under the patronage of the President of the Northern Technical University and under the supervision of the Dean of the College of Agricultural Technology, Professor Dr. Shihab Ahmed Youssef, the Rehabilitation, Employment and Follow-up Unit at the college, in cooperation with the Muthabiron Foundation for the Environment and Development and the Academy for Political Development and Good Governance, Nineveh Platform, organized a workshop entitled (Climate Change and the Role of Government Institutions in Reducing Its Effects).

Participated in it:

- Mr. Anas Muhammad Azhar / M. Rehabilitation and Employment Division in the University Presidency.
- Mr. Mahmoud Ahmed Ardini / Director of Nineveh Agriculture Follow-up.
- Mr. Dawood Matar Abdullah / Forest Nursery
- Mr. Yasser Saleh Muhammad / Nineveh Agriculture Directorate

#### **The workshop dealt with:**

The rights and duties of women in society.

The workshop came out with several recommendations, the most important of which are: -

- Raising awareness in society by encouraging tree planting as well as educating families and children about the importance of tree planting
- Conducting awareness campaigns targeting schools and all regions.
- Encouraging farmers to cultivate and support local products.





❖ Our Northern Technical University in the service of the community.  
For the [first time](#) in the governorates of Nineveh and Kirkuk ...

Under the guidance and follow-up of the President of the Northern Technical University, Professor Dr. Alia Abbas Ali Al-Attar, and with funding from the Human Generation Triangle Organization and within the Perma 2 project, the management team of the Northern Technical University hatchery completed an intensive field training for fish hatchery management. The training lasted five days in the Kirkuk fish hatchery, Elton Kopri District / Kirkuk Governorate. The training included all steps of artificial hatching and sterilization, in addition to maximizing production and correct practices within hatching laboratories and breeding in ponds according to modern methods. The breeding methods that can be adopted and the steps to develop the project for the next stage were also reviewed, with practical application of all management operations. The training will be followed by follow-up by specialists to raise the efficiency of the staff administratively and technically so that the project will be a fundamental pillar in the economic value chains related to fish wealth in Nineveh Governorate in the next stage.







❖ Northern Technical University participates in a workshop organized by Mercy Corps in cooperation with the Human Generation Triangle Organization in Erbil Governorate. Our Northern Technical University participated in a workshop organized by Mercy Corps in cooperation with the Human Generation Triangle Organization in Erbil Governorate, represented by the President of the Northern Technical University, Prof. Dr. Alia Al-Attar. Her Excellency was accompanied by the Director of the Construction and Projects Department and a number of department members in the expanded workshop organized by Mercy Corps in cooperation with the Human Generation Triangle Organization in Erbil. The workshop was attended by the Governor of Erbil, the Governor of Salah al-Din, the First Deputy Governor of Nineveh, Mr. Sirwan Rozhbyani, and a number of directors of service and agricultural departments in Nineveh and Salah al-Din Governorates and members of farmers' associations.

The workshop focused on the second Perma project, which is an extension of the first Perma project, which was implemented by the aforementioned organizations in cooperation with a number of departments in Nineveh Governorate. The university fish hatchery project is considered part of this project, and the Perma project is considered one of the long-term projects that deal with the agricultural and animal sector and irrigation systems in the governorates of Nineveh and Salah al-Din. The university president spoke with the governor of Salah al-Din and the first deputy governor of Nineveh, and they discussed the projects of the Northern Technical University that are planned to be implemented by the governorates of Nineveh and Salah al-Din.







❖ Northern Technical University signs a joint cooperation agreement with the Human Generation [Triangle Organization](#).

In light of the efforts of the President of the Northern Technical University, Prof. Dr. Alia Abbas Ali Al-Attar, to serve the community, and with the aim of creating a wonderful strategic partnership aimed at supporting local agricultural production for small and medium enterprises. The President of our university signed a joint cooperation agreement with the "Human Generation Triangle" organization, funded by the French Development Agency AFD.

This partnership aims to organize a series of innovative exhibitions that enhance local production and support small and medium producers. The organization will finance and provide the needs for organizing the exhibitions, while the university will manage these events in a way that serves our community and contributes to developing the local product.

This step comes within the university's efforts to support local projects and enhance their performance to meet the needs of the changing labor market. We are committed to providing all support and capabilities to local producers, and we seek to develop their capabilities and enable them to participate effectively in the local economy.



#### ❖ Northern Technical University in Community Service

Under the direction of the University President, Prof. Dr. Alia Abbas Ali Al-Attar, our university, represented by the Continuing Education Center, participated in training the staff of the Nineveh Agriculture Directorate in cooperation with the [Human Generation Triangle Organization](#).

This initiative comes as a continuation of our university's role in supporting and developing the community, as the training was on the basics of managing local agricultural production exhibitions and enhancing the quality of agricultural exhibitions to support the local product. The training was implemented over two days, focusing on the basics of exhibition management, providing the necessary points to ensure the success of agricultural exhibitions, the most prominent challenges, and methods of evaluating results and performance.

The attendees had the opportunity to exchange experiences and knowledge with field experts, and learned the latest practices and procedures that would support the development of the agricultural sector in the region. The main axes of the training were identified to ensure sustainable benefits and prepare a guide to managing agricultural exhibitions, which will be an important reference for further improvement and development in this important field.

The trainees also appreciated the role of the Northern Technical University and the Human Generation Triangle Organization in providing support to government departments and contributing to enhancing scientific and professional competencies in society. The Continuing Education Center will continue to work to support the community in every possible way, to achieve sustainable development and advancement in various fields and exhibitions.





❖ Our Northern Technical University in the service of the community

The Northern Technical University produces germinated barley

Under the patronage and guidance of the President of the Northern Technical University, Prof. Dr. Alia Abbas Ali Al-Attar, and under the supervision of the Assistant President of the University for Scientific Affairs and the Dean of the College of Agricultural Technology, the College of Agricultural Technology, the incubator, technology and ecosystem implemented, with the support of devices and equipment from the [IOM organization](#) and within the university's sustainable and agricultural projects, the university produced germinated barley, which is considered one of the technologies used in the production of fodder to reduce its costs for breeders, in addition to its nutritional importance and benefit in increasing milk production and the possibility of converting one kilo of barley after germination to feed 6-8 sheep.

