



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

## **SDG 1.4 Community anti-poverty programmes**

### **1.4.4 - Does your university as a body participate in policy making at local, regional, national and/or global level to implement programmes and policies to end poverty in all its dimensions**

- ❖ The Northern Technical University held a **food security forum** with the aim of reducing and combating poverty. The forum focused on several areas based on multiple indicators of poverty dimensions in society. The forum sought to bring together multiple specializations to shed light on the issue of food security, its repercussions, and its dimensions on Iraqi and regional society. Also, to contribute to accurate scientific and objective outcomes related to the challenges facing our societies. The forum here does not aspire to review academic literature as accumulated by science over more than a century, but rather aspires to understand the reality of food security, the areas and strategies for achieving it, and its sustainability.

#### **The goals of the forum include:**

Diagnosing the food and agricultural situation.  
Foreseeing threats to food and agricultural security.  
Identifying climate challenges and ways to mitigate them.  
Means of sustaining water abundance and problems of scarcity.  
Evaluating food, agricultural, and water security strategies.  
Challenges of international trade and economics and their impact on food security.  
Providing an opportunity to meet experts and thinkers in this field.  
Learn about the role of universities and scientific research centers in supporting food, agricultural, climate and economic security

#### **Partners and Supporters**

The forum was held in cooperation with the RAWNKE Development Organization

The forum was attended by a large number of officials and department directors in Nineveh Governorate, as well as a number of merchants, company owners, civil society organizations, and local and international organizations.



## International Speakers

Professor Walid Khalil Al-Zubari (Arabian Gulf University - Bahrain) Professor Walid Al-Zubari currently holds the academic position of Professor of Water Resources Management at the Arabian Gulf University (AGU), and works administratively as the Coordinator of the Water Resources Management Program at the College of Graduate Studies. He served as Vice President for Academic Affairs (2008-2010), and Dean of the College of Graduate Studies (2010-2013). Since joining AGU, he has taught numerous courses in hydrogeology, water resource management and planning in arid regions, and has published over 100 research papers in journals, conferences and symposia. His research interests address the relationship between water, energy and food security.

Dr. Sudhakar Kumarasamy (University Malaysia Pahang) is an Academician (Senior Lecturer) at the Faculty of Mechanical and Automotive Engineering and a Research Fellow (Research Fellow) at the Centre for Automotive and Fluid Engineering, University Malaysia Pahang. He received his Bachelor of Science in Mechanical Engineering from Government Engineering College, Salem, University of Madras, India, and Master of Science in Energy Management from the School of Energy and Environmental Studies, Devi Ahilya University, Indore, India. He received his Ph.D. from Ministry of Energy and Environment, National Institute of Technology, Tiruchirappalli, India.

Prof. Dr. Mustafa GÜNAL (Gaziantep University – Turkey) is the Dean of the Faculty of Engineering, Gaziantep University. He received his Ph.D. and MSc. from University of Manchester (UMIST), UK. He is interested in Computational Fluid Dynamics, Numerical Simulation Techniques, Mathematical Modeling, Hydrology, Evaporation, River Hydrology, Soft Computing Techniques, Data Mining, Artificial Neural Networks, Genetic Programming, Fuzzy Logic, Machine Learning, Expert Systems.

## Recommendations

- Establish a joint committee between the various state ministries concerned with food security and climate change, with the Ministry of Planning assuming management and coordination, to be implemented on the ground immediately in the near and distant future, and to set standards and controls for implementing these recommendations and strategies.
- At the level of a single governorate, coordinate work through joint committees between the executive and legislative authorities, academic circles, and civil society institutions to develop strategies that guarantee immediate and future risks, find solutions, and make binding decisions that are implemented on the ground to address climate change and water scarcity, ensure food security, and assist and consult international organizations.
- Establishing national standards that define the risk of poverty and strategic commodities to ensure food security and developing ways to increase and improve production and reclaim agricultural lands
- Working to establish a joint research center between the Gulf Cooperation Council countries and universities in neighboring countries and Iraqi universities specialized in the field of environment and agriculture to publish research and experiments in the field of climate change



- Sharing Iraqi and international experiences in confronting climate change, especially in seed production and adaptation to changing temperatures and using modern methods and smart agriculture
- Working to document rainfall distribution maps according to modern variables and adopting special agricultural plans in the field of confronting climate change and supporting them from the Ministry of Agriculture according to each region
- Working to direct the Ministry of Trade to adopt special specifications in grain production, especially since there is a change and variation in production, especially since grains as a result of climate change have resulted in a change in size and production due to the suitability of temperatures
- Supporting modern irrigation methods and clean energy, especially in the production of strategic crops (wheat, barley, corn), especially since they are marketed locally and internationally as a result of current international crises
- Preparing the necessary equipment to produce lidar maps with an accuracy of up to 25 cm to raise the level of flood modeling research and water resources management
- Including the concept of sustainability and climate change And ways to confront them in the curricula in a focused manner, especially in projects and research that enter the database to find solutions to climate change
- The Ministry of Education should adopt specializations related to sustainability and climate change as rare specializations to enable universities to send students and researchers to develop their capabilities through international fellowship programs
- Work on raising awareness and educating different groups in society on the importance of confronting climate change problems, each according to his specialization
- Work on launching a comprehensive study to know the extent of the impact of climate change and the escalating problems to facilitate the development of solutions where and when
- Adopt the necessary economic plans for agricultural production and educate farmers to adopt them to avoid significant losses







The participants and stakeholders in this field expressed that the forum was highly beneficial at the regional level. The university plans to continue organizing similar forums in the coming years.

Many researches have been published by Northern Technical University under the caption of ""Northern Technical University, Iraq "& poverty"" you can refer to the link below for more information

[https://scholar.google.com/scholar?hl=ar&as\\_sdt=2007&as\\_ylo=2022&as\\_yhi=2023&q=%22Northern+Technical+University%2C+Iraq+%22%26+poverty&btnG=&oq=%22Northern+Technical+University%2C+Iraq+%22%26+%22](https://scholar.google.com/scholar?hl=ar&as_sdt=2007&as_ylo=2022&as_yhi=2023&q=%22Northern+Technical+University%2C+Iraq+%22%26+poverty&btnG=&oq=%22Northern+Technical+University%2C+Iraq+%22%26+%22)