



# Conservation Programs





## Conservation Programs



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 •







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



## Animals Farms







The greenhouses project was also established to grow and market plants.



-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.





### 2.2.1 Water Conservation Programs

At the campus of all sites of the university 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: 500m<sup>2</sup>): is used for three purposes in the university;

first: to water the plants & animals

second: to keep the environment

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.





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



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



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

## 2.2.2. Water Recycling Program Implementation

Different measurement & treatment systems are used in the university to measure and treat and reuse water from different sources by cooperating with the Iraqi government to install the system in the university.

-These systems depend on different water sources such as rainwater and underground water then recycle or treat water to reuse it again in the campus.





- To install water pumps by using sprinklers within the wastewater treatment ponds for watering the lawn.
- To use water from natural ponds, for watering trees to replace tap water

**-Integrated research projects are encouraged to focus research on one or more of the following areas:**

- Organic and inorganic pollutants in different water matrices.
- Wastewater generation, sources, characteristics, distribution, impact and related applicable reduction and treatment programs.
- Wastewater treatment reuse/ recycling using biological, physical and/or chemical technologies.
- Technologies suitable for removing heavy metals and hydrocarbons from industrial wastewaters.
- Physic-chemical and/or biological technologies for nutrient-rich (phosphorous and nitrogen) wastewaters treatment.
- Sludge treatment technologies and reuse.



Water Recycling Program (Al-Furat Al-Awsat Technical University, Iraq)