

SUSTAINABLE DEVELOPMENT GOAL 6

Ensure availability and sustainable management of water and sanitation for all



Research

IUG has specialized staff who participate in research and capacity building projects in the field of water. The following is the list of the projects that have been implemented during 2021:

- Palestinian-Dutch Academic Cooperation Program on Water (PADUCO 2) which is implemented in partnership with 10 universities from the Netherlands and Palestine
- Capacity Building in WASH and CSA Education and Research in Palestine which is implemented in partnership with 10 universities from the Netherlands and Palestine

Education

University offers wide range of courses related to water and sanitation through Bachelor, master and PhD programs:

- IUG is implementing eMaster on Water Resources Engineering project in partnership with 6 universities from Belgium, Jordan, Palestine and the Netherlands.
- PhD program on Water Technology

Public Engagements

IUG has specific lab that provide water testing and analysis to the public. This lab has implemented several projects in 2021 for the benefit of the local organizations. Furthermore, the university through the center has continue organizing public workshops for the students and the public about water issues.

Operations

- **Water Recycling Program Implementation: Memorandum of Understanding** was signed with Khan Yunis Municipality to benefit from the treated water from the water station, which operates with a capacity of 120 cubic meters per day , for irrigation in the south campus of the university. In the first stage treated water will be used for irrigation, in second stage it will be used for washing toilets and washing
- **Applying Water-Efficient Technology: IUG is using rainwater harvesting systems to inject rainwater into the aquifer.** The aim of this project is to increase water sustainability, collecting rainwater and reuse another part in irrigation to achieve financial sustainability, and solving water scarcity and salinity problems.

The university takes many actions to conserve water:

- Using specific irrigation methods to save water like: drip irrigation, sprinkler irrigation.
- Using water taps with pressure switches in the campus courtyards to supply water.
- Depending on specific types of plants, which don't need a lot of water to irrigate, for example: Dodonaea, Ficus, arancaria and olives trees
- IUG has 3 desalination plants. The first is located in the main campus, the second in Turkish Palestinian Friendship Hospital, and the last in the campus of the south branch
- Upon the emerging of COVID-19 pandemic and on response to the huge demand for sanitizers and disinfectants; Orbital company for Chemical Industries and Cosmetics located in the Islamic University of Gaza has immediately responded to the bad need and managed to produce different types of required sanitizers and disinfectants although of the special difficulties that Gaza strip is facing. The company has covered all the needs of the University of sanitizers and disinfectants that involved the 70% alcohol gel and spray sanitizer, hand wash soap, bleach and Dettol like liquid.