

# End hunger, achieve food security and improved nutrition and promote sustainable agriculture.

#### Ambassador of SDG 2:

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bups://medforest.net/2022/07/29/enhancing-fig-tree-diversity-for-sustainable-mediterranean-agriculture/

The PRMETEO project aims to establish a cross-border network between Italian and Tunisian researchers, companies and other stakeholders involved in one of the strategic sectors for the Sicily-Tunisia macro-region: the typical Mediterranean tree crops - citrus, almond and olive - in order to collaborate in the development of innovative and sustainable technical solutions for the protection of these crops against quarantine pathogens or emerging pests, which threaten their profitability and survival. The results will be useful for guiding agricultural policies, strengthening phytosanitary services, increasing production efficiency, competitiveness and sustainability of these sectors and improving food safety quality standards.

The PROMETEO project, "A cross-border village: to protect Mediterranean tree crops by sharing knowledge"









The cross-border team is made up of eight partners, including the Università degli Studi di Catania (Dipartimenti di Agricoltura Alimentazione e Ambiente - Di3A, Scienze chimiche - DSC e Scienze Biomediche e Biotecnologiche - BIOMETEC) and the University of Tunis El Manar (UTM), the Centre Technique des Agrumes (CTA), the Institut National de Recherche Agronomique (INRAT) in Tunis, the Agence Nationale de la Promotion de la Recherche Scientifique (ANPR), the Comune di Palazzolo Acreide, the Centro di Ricerca per l'Innovazione e Diffusione della Conoscenza (CERID) and Expergreen

# **AQUAPONIA** Project

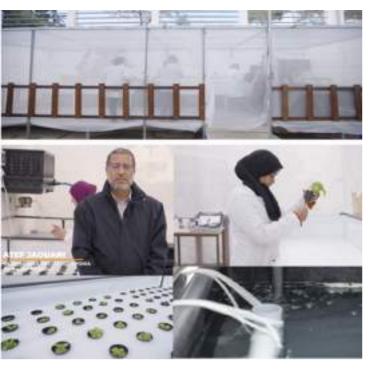






The main goal of **AQUAPONIA Project** is to develop an aquaponics system that integrates fish production with the cultivation of **medicinal plants**. Aquaponics is an integrated and sustainable solution for local agricultural production. AQUAPONIA is a project launched on Marsh 2023 by the Higher Institute of Applied Biological Sciences (ISSBAT) supported by the Cooperation and Cultural Action Service of the Embassy of France and the Research Institute for Development within the framework of the APIS program,

AOUADONIA sime also to enhance research and



# ISSBAT (UTM): Research unit on





A new Aquaponics unit at ISSBAT Research unit on Aquaponics which will allow our Students to familiarize themselves with this new technique of agriculture in Tunisia and to have Tunisian scientific statistics. Different varieties of 🕊 basil, Indian carnation 😂 lettuce .... produced by our fish Tilapia

Production of 100% natural lettuce without any input or pesticide or added fertilizer, ONLY the fertilizer provided by our Tilapia.

# INTERNATIONAL AWARD.....











Today, Atef Jaouani has received one of two PrimaProgram WEFE Nexus Award on 'Towards Integrated and adapted Solutions for safe and available Water for the Southern Med countries in a context of CC and resource depletion.





## **INNOVATIO**



### **SOUAQI FARMS Project**

An innovative agricultural project: 90% less water consumption and no pesticides

Engineering students from the ENACTUS ENIT, reached the semi-final of the national ENACTUS 2023 competition with the SOUAQI FARMS project.

SOUAQI FARMS is a project which specializes in "hydroponics" soilless agriculture, this technique allows to produce organic vegetables without pesticides, 3x faster and using 90% less water than traditional agriculture.



aluna.tn/un-projet-innovant-dagriculture-la-consommation-de-90-moins-deau-et-aucuns-pesticides/?fbclid=IwAR3deTY22zi89wX66z6K74x44PIvzUX5KawB0UKeonEDAzJmQc372xQaaTM

# Diabetes Junior Enterprise"

15 décembre 2022







December 14th, the 5th edition of the local competition "ISTMT skills improvement" take place in a competitive environment. This edition was organized in collaboration with the Tunisian Association of Biomedical Engineering (ATGBM), the Association of Diabetic Children and Youth (ATAJED) and INJAZ Tunisia.

hQur/studentsbpresented their yunior Enterprise C projects worked on innovative solutions to help the diabetic population.

## TRAINING...

#### The objectives of the Forum are:

 Strengthening exchanges between agricultural training, higher education and research institutions at African





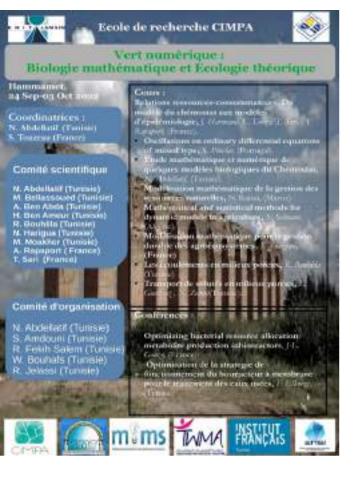
# "DIGITAL GREEN: MATHEMATICAL BIOLOGY AND T HEORETICAL ECOLOGY" RESEARCH SCHOOL.

#### **Organized by:**

Environment" team of the Laboratory of Mathematic al and Digital Modeling in Engineering Sciences (LA MSIN) of ENIT

The International Center of Pure and Applied

Madhamadiaa (CIMDA)



# TRAINING OF TRAINERS (FP-FOR) IN GEOMATICS APPLIED TO AGRICULTURE AND THE ENVIRONMENT

On 21, 22 and 23 June 2022 at ENIT, school training under the ERASMUS+ GEOMAG project



The training of trainers aims to support the teacher-researchers to design engineering and tools to individualize pathways using innovations; educational and digital skills, mastery of repositories and knowledge of sources of spatial information in the world (Focus on Open Source).

# **WORKSHOPS....**

#### **WAFRA** - Wireless Aquaponic Farming in Remote Area: A Smart Adaptive socio-economic solution

#### WORKSHOP: "AOUAPONICS A SUCCESSFUL EXAMPLE OF THE CIRCULAR ECONOMY IN URBAN AND RURAL AGRICULTURE.



Biologiques Appliquées de Tunis (ISSBAT, University of Tunis El Manar) organised, in framework of the ERANETMED WAFRA -Wireless Aquaponic Farming in Remote Area: A Smart Adaptive sociosolution"-, project, **EurAfricaine** 

Français de Tunisie e d'Aquaculture de aquaponics entitled ul example of the urban and rural 31 March 2022,

des

Sciences

#### SEMINAR "WATER AND ADAPTATION TO CLIMATE CHANGE IN TUNISIA".

Organized by the Laboratory of Economics of Sustainable Development, Natural Resources and Agriculture (LEDDRNA, FSEGT, UTM) and the Ministry of Agriculture the Wednesday, March 15, 2023, 9:00 a.m., - 2:00 p.m., FSEGT (UTM).











#### EAU ET ADAPTATION AU CHANGEMENT CLIMATIQUE EN TUNISIE





Programme

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**WORKSHOP: "Rainfall and Evapotranspiration Based Drought Severity Indicators and Climate** 



WSC is calculated per decade and cumulated over the agricultural season at the same spatial resolution and by Imada of the study area.

The objective of the workshop was to: present a set of results obtained by the ENIT team, in particular for the Zaghouan and Siliana governorates. Present FIDAC's experience with drought insurance coverage. Discuss the potential of these results in terms of climate service as advocated by the WMO. The Appears application for the extraction and exploration of samples ready for analysis was used for the processing of satellite data provided by the National Mapping and Remote Sensing Center (CNCT).

# **Mental health and Nutrition workshops**





# WORKSHOP « HEALTHY BASKET CONTEST "

Saturday. December 03 . 2022

sports works teache



# WORKSHOP "FEED FOR FIT, EAT FOR STRESS BEAT", (ISTMT)

The goals of workshop are that students will learn about food and mental health, the consequences of poor nutrition, the role of different diets in the expression of mental health, and the potential for nutritional therapies. In addition, non-nutritional components (natural and additives as well as environmental toxins) of food will be explored to give the student an appreciation of the emerging importance of non-nutritive food components in mental health.



To keep students engaged during a workshop, Puzzle Games and interactive activities, were used.



Wednesday, 7th, December 2022 at "Amphi F

https://www.facebook.com/photo?fbid=115433438064596&set=pcb.115433601397913





## **COMPOST WORKSHOP**



The research laboratory « Economic of Sustainable development, Natural resources and Agriculture L.EDDRNA (FSEGT,UTM) conducted in collaboration with ANGED a workshop teaching participating faculty, staff, and students how to build a compost tumbler, a fully sealed container used to mix composting



# VISITS FOR STUDENTS.....

#### Visit agri-food industries







ISSBTA: **Study trip to the agri-food industry** for future graduates of the Biotechnology degree course CQAH at the El Mazraa factory (. Leader of the Poultry Industry in Tunisia)

02/03/2023









### ISSBAT: VITALAIT Industry Visit for Students November 2022

As part of its openness to its environment and to strengthen the skills of its future graduates ISSBAT organized a study industry visit for the benefit of its students in 3rd year Biotechnology.

Bachelor Course #CQPAH at the milk factory of #Vitalait Mahdia. During this visit with their teachers, our students had the Opportunity to:

- ✓ Discover in the field the processes of manufacturing bottled milk and tetrapack as well as butter
- ✓ Knowledge of food quality and safety management systems









ISSBAT: Visit of the National Bank of Genes (BNG) by







https://www.facebook.com/photo?fbid=10158387114824013&set=pcb.10158387115179013

# Students visit retirement home "Dar al Osra Zouhair el Haddad". 26/03/2022











The Higher Institute of Nursing Sciences of Tunis (ISSIT,UTM)) has organized an activity for our students to visit old home « Dar al Osra Zouhair el Haddad« .. The purpose of this visit is to educate the students to show care and passion for the elderly. A visit to old home is one of the necessary student activities in our school every year to promote the virtues of respecting the elderly. And also to make students understand that there will be some vulnerable groups who need everyone's help in society.

