

Prepared by University of Tunis El Manar

# THE UNIVERSITY OF TUNIS EL MANAR IN THE SERVICE OF SUSTAINABLE DEVELOPMENT

ANNUAL REPORT-2025







# SUSTAINABLE DEVELOPMENT GOALS





IMPACT	PRIORITY		COMMUNITY	
FOR A BETTER LIFE			FOR A BETTER FUTURE	
<p>"End poverty in all its forms everywhere."Achieving SDG 1 would end extreme poverty globally by 2030. One of its indicators is the proportion of population living below the poverty line. The data gets analyzed by sex, age, employment status, and geographical location (urban/rural).</p>			<p>"Ensure availability and sustainable management of water and sanitation for all." The Joint Monitoring Programme (JMP) of WHO and UNICEF is responsible for monitoring progress to achieve the first two targets of this goal.</p>	
<p>"End hunger, achieve food security and improved nutrition, and promote sustainable agriculture." Indicators for this goal are for example the prevalence of diet, prevalence of severe food insecurity, and prevalence of stunting among children under five years of age.</p>			<p>"Ensure access to affordable, reliable, sustainable and modern energy for all." One of the indicators for this goal is the percentage of population with access to electricity. Other indicators look at the renewable energy share and energy efficiency.</p>	
<p>"Ensure healthy lives and promote well-being for all at all ages." Important indicators here are life expectancy as well as child and maternal mortality. Further indicators are for example deaths from road traffic injuries, prevalence of current tobacco use, and suicide mortality rate.</p>			<p>"Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all." Important indicators for this goal include economic growth in least developed countries and the rate of real GDP per capita. Further examples are rates of youth unemployment and occupational injuries or the number of women engaged in the labor force compared to men.</p>	
<p>"Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all." The indicators for this goal are, for example, attendance rates at primary schools, completion rates of primary school education, participation in tertiary education, and so forth.</p>			<p>"Build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation." Indicators in this goal include for example, the proportion of people who are employed in manufacturing activities, are living in areas covered by a mobile network, or who have access to the internet. An indicator that is connected to climate change is "CO2 emissions per unit of value added."</p>	
<p>"Achieve gender equality and empower all women and girls." Indicators include, for example, having suitable legal frameworks and the representation by women in national parliament or in local deliberative bodies. Numbers on forced marriage and female genital mutilation/cutting (FGM/C) are also included in another indicator.</p>			<p>"Reduce inequality within and among countries." Important indicators for this SDG are: income disparities, aspects of gender and disability, as well as policies for migration and mobility of people.</p>	





IMPACT	PRIORITY		COMMUNITY	
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FOR BETTER HEALTH

"Make cities and human settlements inclusive, safe, resilient, and sustainable."Important indicators for this goal are the number of people living in urban slums, the proportion of the urban population who has convenient access to public transport, and the extent of built-up area per person.



"Ensure sustainable consumption and production patterns."One of the indicators is the number of national policy instruments to promote sustainable consumption and production patterns. Another one is global fossil fuel subsidies. An increase in domestic recycling and a reduced reliance on the global plastic waste trade are other actions that might help meet the goal.



"Take urgent action to combat climate change and its impacts by regulating emissions and promoting developments in renewable energy." In 2021 to early 2023, the Intergovernmental Panel on Climate Change (IPCC) published its Sixth Assessment Report which assesses scientific, technical, and socio-economic information concerning climate change.



"Conserve and sustainably use the oceans, seas and marine resources for sustainable development." The current efforts to protect oceans, marine environments and small-scale fishers are not meeting the need to protect the resources. Increased ocean temperatures and oxygen loss act concurrently with ocean acidification to constitute the deadly trio of climate change pressures on the marine environment.



FOR A BETTER FUTURE

"Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss." The proportion of remaining forest area, desertification and species extinction risk are example indicators of this goal.



"Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels."Rates of birth registration and prevalence of bribery are two examples of indicators included in this goal.



"Strengthen the means of implementation and revitalize the global partnership for sustainable development."[71]Increasing international cooperation is seen as vital to achieving each of the 16 previous goals. [72] Developing multi-stakeholder partnerships to facilitate knowledge exchange, expertise, technology, and financial resources is recognized as critical to overall success of the SDGs.







**Pr. Moez Chafra,**  
President of the University of Tunis  
El Manar (Tunisia)  
2024-2027.

*Pr. Moez Chafra*



## Learn more about **The Sustainable Development Goals**

The 17 Sustainable Development Goals (SDGs) constitute the sustainable development program that France and the 192 other UN member states have committed to achieving by 2030. These goals, which make up the 2030 Agenda, are universal, and apply to all countries in the same way. Far from being limited to ecology, they integrate the three main pillars of sustainable development: economic, ecological and social.

Achieving the 2030 Agenda requires the mobilization of all stakeholders: institutions, territories, businesses, associations and citizens.



***Learn more about University  
of Tunis El Manar***



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*We are a University, innovative and driven by a vocation: to pursue developments in science to improve life and employability.*

*Our teams are working to transform the practice of science and technology. We bring solutions to the employability of our students meeting the needs of the job market, guided by the ambition of sustainable development and social responsibility.*

“





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ACKNOWLEDGEMENTS

The Sustainable Development Report from the University of Tunis El Manar encapsulates the institution's unwavering commitment to fostering sustainable practices and promoting environmental stewardship within its community and beyond. As a cornerstone of its ethos, the University of Tunis El Manar recognizes the pivotal role it plays in addressing global challenges and acknowledges the interconnectedness of social, economic, and environmental dimensions of sustainability.

Through this comprehensive report, the university endeavors to transparently document its efforts, achievements, and challenges in advancing sustainable development goals. It serves as a testament to the institution's dedication to sustainable principles, providing stakeholders with valuable insights into its sustainability initiatives, policies, and practices.

At the heart of the University of Tunis El Manar's sustainability agenda lies a holistic approach that encompasses education, research, operations, and outreach. By integrating sustainability into its core functions, the university aims to inspire a culture of sustainability among its students, faculty, staff, and partners, fostering a collective sense of responsibility towards the planet and future generations.

Through collaboration, innovation, and continuous improvement, the University of Tunis El Manar seeks to contribute meaningfully to the global sustainability agenda while addressing local challenges and priorities. By embracing sustainability as a guiding principle, the university aspires to be a catalyst for positive change, nurturing a more resilient, equitable, and thriving society.

This report invites readers to embark on a journey through the University of Tunis El Manar's sustainability landscape, exploring its accomplishments, aspirations, and the transformative potential of sustainable development. As we navigate the complexities of the 21st century, the university remains steadfast in its commitment to advancing sustainability, shaping a better future for all.

Together, let us embark on this voyage of sustainability, guided by the principles of collaboration, innovation, and shared responsibility, as we strive to create a world that is more just, prosperous, and sustainable for generations to come.





**MRS. HELA BEN  
HASSINE**  
SDG1



**MRS. LAMIA  
MOKADDEM**  
SDG2



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**MRS. HALIMA  
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**MR. BECHIR  
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SDG7



**MRS. NEJIBA  
ELYETIM**  
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**MRS. DORRA  
AMMAR**  
SDG8



**MRS. NESRINE  
ZOGHLAMI**  
SDG9



**MRS. FADHILA  
DARRAGI**  
SDG10



**MR. JAMEL  
NEJI**  
SDG11



**MRS. MONIA  
NAJJAR**  
SDG12



**MR. NOAMEN  
REBAI**  
SDG13



**MR. MONCEF  
GUEDDARI**  
SDG14



**MRS. SAMIA  
MOUELHI**  
SDG15



**MRS. HANEN  
TURKI**  
SDG16



**MR. MOEZ  
CHAFRA**  
SDG17

**UTM SDGs Ambassadors**

# Research Publications Per SDG for the period between 2019 and 2023



SDG	SCHOLARLY OUTPUT	CITATION COUNT
SDG 1:	34	240
SDG 2:	187	7739
SDG 3:	2486	42079
SDG 4:	66	356
SDG 5:	59	965
SDG 6:	355	8423
SDG 7:	867	9727
SDG 8:	146	8211
SDG 9:	216	3014
SDG 10:	91	1047
SDG 11:	164	2140
SDG 12:	146	2310
SDG 13:	189	3652
SDG 14:	200	2123
SDG 15:	117	975
SDG 16:	79	10950
TOTAL	4430	63455



# Sustainability **Teaching** programs and **degrees** at the UTM

## Teaching programs

SPECIALITY	DISCIPLINE	DEGREE	INSTITUTE
1. Environmental Management and Water Professions	Professional Master's in Environmental Management and Water Professions	Professional Master's	FST
2. Hygiene, Safety, and Environment	Bachelor's in Hygiene, Safety, and Security	Bachelor's	ESSTST
3. Environmental and Food Risks, Evaluation, and Prevention	Research Master's in Biomedical Sciences	Research Master's	ESSTST
4. Hydraulic Engineering and Environment	National Engineering Degree in Hydraulic Engineering and Environment	National Engineering Degree	ENIT
5. Hydraulic Modeling and Environment	Research Master's in Hydraulics	Research Master's	ENIT
6. Quality, Management, Safety, and Environment	Bachelor's in Life and Environmental Sciences	Bachelor's	ISSBAT
7. Bioresources Management and Valorization	Bachelor's in Life and Environmental Sciences	Bachelor's	ISSBAT
8. Waste Treatment and Valorization	Bachelor's in Life and Environmental Sciences	Bachelor's	ISSBAT
9. Plant Biotechnology	Bachelor's in Biotechnology	Bachelor's	ISSBAT
10. Microbial Biotechnology	Bachelor's in Biotechnology	Bachelor's	ISSBAT
11. Food Quality Control and Hygiene	Bachelor's in Biotechnology	Bachelor's	ISSBAT
12. Environmental Engineering	Professional Master's in Life and Environmental Technologies	Professional Master's	ISSBAT
13. Risk Management and Environmental Safety	Professional Master's in Risk Management and Safety Sciences	Professional Master's	ISSBAT
14. Bioresources Management and Valorization	Bachelor's in Life and Environmental Sciences	Bachelor's	FST
15. Georesources and Environment	Bachelor's in Earth Sciences	Bachelor's	FST
16. Biochemistry and Microbiology	Research Master's in Molecular, Cellular, and Biotechnology	Research Master's	FST
17. Genetics and Immunology	Research Master's in Molecular, Cellular, and Biotechnology	Research Master's	FST
18. Neurosciences and Biotechnologies	Research Master's in Molecular, Cellular, and Biotechnology	Research Master's	FST
19. Plant Physiology	Research Master's in Organism, Population, and Environmental Biology	Research Master's	FST
20. Functional and Evolutionary Ecology	Research Master's in Organism, Population, and Environmental Biology	Research Master's	FST
21. Applied Environmental Geology	Research Master's in Earth Sciences	Research Master's	FST
22. Environmental Hygiene and Safety	Professional Master's in Applied Hygiene and Safety	Professional Master's	FST
23. Physico-Chemical Analysis and Environment	Professional Master's in Physico-Chemical Analysis and Environment	Professional Master's	FST
25. Biology - Geology	Preparatory Program in Biology-Geology	Preparatory Program	ISTMT
26. Geological Science and Techniques	Bachelor's in Earth Sciences	Bachelor's	FST
27. Biology - Geology	Preparatory Program in Biology-Geology	Preparatory Program	FST
29. Physics and Energy	Bachelor's in Physics and Energy	Bachelor's	FST
30. Renewable Energies, Technology, and Applications	Professional Master's in Renewable Energies, Technology, and Applications	Professional Master's	FST



1

NO  
POVERTY

IMPACT

PRIORITY

PARTNERS

COMMUNITY

NO POVERTY





**Hela BEN HASSINE KHALLADI is an Associate Professor of Economics at the Faculty of Economics and Management of Tunis (FSEG Tunis), Tunis El Manar University.**

She holds a Ph.D. in International Economics and is member of LARMA (Research Laboratory in Applied Microeconomics). She is a Fulbright Visiting Scholar at the Tennessee State University since September 2023.

### Scientific Publications

Nasri, K., & Belhadj, B. (2024). Household Vulnerability and Resilience in Tunisia: Evidence Using Fuzzy Sets and Multidimensional Approach. *Studies in Microeconomics*, 12(2), 135-153.  
<https://doi.org/10.1177/23210222221098836>

Total views and downloads: 71

Belhadj, B., Bouanani, M. Attributes inequality in multidimensional poverty measures fuzzy modeling. *Soft Comput* 27, 1997-2008 (2023).  
<https://doi.org/10.1007/s00500-022-07298-z>

## 1. FULLY FUNDED SCHOLARSHIPS FOR MASTERS AND PHD PROJECTS

### THE BRAIN PROJECT



The Brain Project directly supports the implementation of SDG 1: No Poverty by enhancing access to quality education and fostering the development of skilled professionals in Sub-Saharan Africa. By providing mobility scholarships for Master's and Ph.D. students, the program equips individuals with the knowledge and opportunities needed to secure sustainable livelihoods, reduce inequality, and contribute to poverty alleviation through innovation and economic growth.



### THE AFRIDI PROJECT



The AFRIDI Project offers numerous scholarships to Sub-Saharan African students, providing them with opportunities for advanced studies and research in the fields of Natural and Environmental Sciences. These scholarships are designed to promote academic excellence, foster regional collaboration, and contribute to the development of skilled professionals who can address the pressing challenges facing Africa. Through this initiative, the project aims to enhance educational mobility and support the growth of higher education institutions across Sub-Saharan Africa.

## SDG1: No Poverty

The DigItAfrica project aims to help universities in isolated areas, minimizing the digital divide by fostering digital literacy and capabilities across the continent. By enhancing access to digital education and skills, the project also contributes to reducing poverty, empowering individuals with the tools to improve their livelihoods and contribute to sustainable economic growth. Once again, UTM demonstrates its leadership and commitment to advancing education, digital transformation, and poverty reduction in Africa, ensuring that no region is left behind. Congratulations to the entire project team for their outstanding effort and accomplishment.



# 1 NO POVERTY







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ZERO HUNGER

IMPACT

PRIORITY

PARTNERS

COMMUNITY

ZERO HUNGER



Pr. Lamia Mokaddem, Professor of Economics, Head of research laboratory « Economic of Sustainable development, Natural resources and Agriculture, LEDDRNA”, University of Tunis El Manar, Faculty of Economics and management of Tunis, Head of the Tunisian association of the research , the innovation and the action for the sustainable development (ATRIADD).  
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## Projects

### THE PAQ COLLABORA ASSUR CEREALS PROJECT

The project's overall objective is to help reduce Tunisia's trade deficit in the cereal sector. The specific objectives are to support agricultural risk management related to drought and to contribute to enhancing the capacity for processing satellite imagery to adapt to this risk. For reference: The PAQ Collabora Assur Cereals project is based on a consortium that brings together five partners: ENIT (lead partner), CTAMA, APAD, CNCT, and the Bizerte Competitiveness Pole. It has been funded to promote the thesis of Nesrine Abid in Hydraulic Engineering, defended in 2018. It contributes to the development of indices to promote the use of drought insurance by cereal producers and stakeholders in the cereal sector in Tunisia.





# TRANSFORMING OUR RELATIONSHIP WITH NATURE IS KEY TO A SUSTAINABLE FUTURE

## Projects

### PROJECT: SOIL HEALTH AND AGRICULTURE RESILIENCE THROUGH AN INTEGRATED GEOGRAPHICAL INFORMATION SYSTEMS OF MEDITERRANEAN DRY LANDS

Project: Soil Health and Agriculture Resilience through an Integrated Geographical Information systems of Mediterranean Dry lands

**Action and Topic**

(RIA) Developing integrated soil data for the Mediterranean Region: a gateway for sustainable soil management

**Budget**

4,099,366,95 €

**Duration**

36 months



**OUR IMPACT**


**Goals**

SHARING-MED will contribute to the following 4 (four) Sustainable Development Goals: SDG2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture; SDG6 Ensure availability and sustainable management of water and sanitation for all; SDG13 Take urgent action to combat climate change and its impacts; SDG15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss;


**Objectives**

The General Objective (GO) of SHARING-MED is building a standardised soil monitoring scheme to integrate physico-chemical, biological, agronomic, economic and environmental indicators to increase agriculture sustainability by informing stakeholders (policy-makers, scientists, soil end-users, etc.) on the use of and relationships among these indicators for Mediterranean landscape and crop sustainable management, and capable of improving the harmonization of various databases. The General Objective is broken down into 6 Specific Objectives (SOs): SO1 Enlarge the soil knowledge by covering unsampled areas; SO2 Study the role of Land Use and Land Use Change (LULUC) on soil properties; SO3 Analysing soil properties response to crop management, productivity, economic and environmental impacts; SO4 Assessing soil degradation drivers; SO5 Integration of scientific and communication expertise for research purpose; SO6 Fostering the application of sustainable management practices to enhance soil functions.

Project



# Strategies for increasing the WATER use efficiency of semi-arid Mediterranean watersheds and agrosilvopastoral systems under climate CHange (SWATCH)



## The Goal

The overarching goal of this research project is to develop and apply innovative methodologies to increase the social-ecological water use efficiency of managed ecosystems along the Mediterranean biome and climate types. In the face of drier and more extremes climates. We will focus on a diverse set of seasonally dry ecosystems, spanning a large gradient of mean annual rainfall (from 35 to 935 mm/y) across the Mediterranean biome.



## The opportunities

The project economic impact will be significant for agricultural development and its sustainability since it will increase the system efficiency and decrease the overall costs. Stakeholders will be involved and will have a main role in the project. The project will provide to the stakeholders the scientific approach and results for defining the planning and management strategies for both current and future climates.





Ecole Nationale Supérieure d'Hydraulique



EEWRC - Energy, Environment and Water Research Center



# TRANSFORMING OUR RELATIONSHIP WITH NATURE IS KEY TO A SUSTAINABLE FUTURE



**FIT4REUSE** will provide research, sustainable water management, and wastewater treatment systems, exploiting co-generation technologies. Integrated water systems will contribute to compensating the gap between agricultural water management and wastewater applications, providing solutions for sustainable practices.

**FIT4REUSE** will also focus on innovative technologies and tools to address challenges related to water quality and agricultural water management. Additionally, specific methodological and assessment tools will be created to meet project objectives.

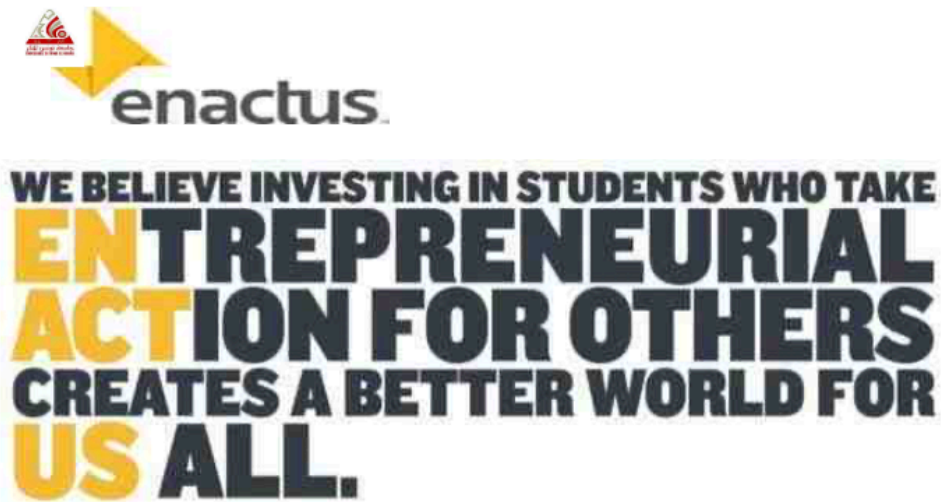
Enactus is a network of leaders committed to using business as a catalyst for positive social and environmental impact... educate, inspire, and support young people to use innovation and entrepreneurship to solve the world's biggest problems.

The national branch, Enactus Tunisia, contributes to the development of this program and coordinates it within French higher education institutions.

## NEWS : AN INNOVATIVE AGRICULTURE PROJECT: 90% LESS WATER CONSUMPTION AND NO PESTICIDES



Enactus ENIT, an association under the 1901 law, of general interest, governed and composed solely by students of the National School of Engineers of Tunis, all under the coordination of Enactus Tunisia





## SDG2: ZERO HUNGER

### SOUAQI project :a project with a noble goal

The initiators of this project are three young doctoral students in biology and qualified trainers in hydroponics. With no lack of motivation or determination, this team and qualified trainers in collaboration with Enactus ENIT are running a hydroponic farm. The SOUAQI project aims to solve the problems of pesticide use, water scarcity and to popularise the concept of hydroponics in Tunisia. This project ensures:

A sales network for unprocessed organic agricultural products. A popularisation of the concept of hydroponics through training for amateurs of this new approach and agripreneurs.

The launch of hydroponic projects: 9 hydroponic projects have been launched in the four corners of Tunisia. SOUAQI is a promising and innovative project in Tunisian agriculture. Not only does it make it possible to popularise this modern agricultural technique at a time when it is most needed, but it also makes it possible to combine engineering, agriculture, the hydroponics system and the internet in order to significantly improve the yield and quality of agriculture





SDG2: ZERO HUNGER



Very buzz matters

With B-CONNECT, we're on a mission to safeguard the beekeepers and the vital role they play in our ecosystem. Our platform connects beekeepers with the perfect hive locations while implementing innovative security measures to combat hive theft. Join us in nurturing bee populations and preserving biodiversity, one hive at a time .



Fish Living lab (Gel GINTEL - Bizerte project)

The living Lab in Gel Gintel - Bizerte project (L. EDDRNA, FSEGT UTM), use this method for small scale fisheries issues, which has rarely been attempted before. In these, the complex interactions between human socio-economic social conditions (fisheries, industries, economics, politics) and natural conditions in Bizerte lagoon (biodiversity, climate change, eutrophication) are addressed.





Living Lab

Living Lab organized on May 23, 2024 by ISSBAT as part of the Horizon Europe Mar2Protect project. This event brought together researchers, academics, companies, public institutions and members of civil society. The main objective was to co-create innovative solutions to address current groundwater challenges in Tunisia, particularly groundwater recharge, with a focus on the study site of Oued Souhil, Nabeul.



Working Workshops

Working Workshop for Producers in Upstream and Downstream of Cereal Producers, “Productivity Index Estimated from Satellite Information and Hydroclimatic Projections” on Thursday, October 5, 2023, from 9 AM to 12 PM at the Bizerte Competitiveness Pole.

This workshop is part of the Pack-Collabora project:

Assur Cereals, “Monitoring/Development of Drought Indices for Decision-Making in Cereal Productivity Management in Tunisia,” with project partners including ENIT, APAD, CTAMA, CNCT, and the Bizerte Competitiveness Pole. It is an opportunity to see what this partnership has consolidated through the use of meteorological and satellite observations in support of cereal production in Tunisia. By providing information on indices for monitoring crop status and positioning various agricultural campaigns within the framework of climate variability through statistical analysis, you can predict your harvest and optimize your production costs.





SDG2: ZERO HUNGER

Program of the closing seminar of the PRIMA SWATCH Project "Strategies for increasing the water efficiency of agro-sylvo-pastoral systems under climate change, in semi-arid watersheds of the Mediterranean" Thursday, June 13, 2024 at the KANTRA agricultural vocational training center, Siliana.



Training

Master class: Micro nutrition and health

01 Apr Master class.

The Faculty of Medicine of Tunis is organizing a master class entitled “Micro nutrition and health” according to the downloadable flowchart.

The Learning objectives:

- 1.Explain the Biochemical Roles of Micronutrients
- 2.Identify and Diagnose Micronutrient Deficiencies
- 3.\*Understand the Clinical Implications of Micronutrient Imbalance
- 4.Correlate Micronutrient Status with Disease Prevention
- 5.Examine Therapeutic Approaches for Micronutrient Deficiencies
- 6.Integrate Nutritional Assessment into Clinical Practice
- 7.Apply Knowledge to Case-Based Learning

This set of objectives would help students not only understand the importance of micronutrients but also apply this knowledge directly in clinical settings





Learn more about University of Tunis El Manar

La faculté de médecine de Tunis organise une masterclass sur le thème


# NUTRITION ET CANCER

Public cible :  
Chirurgie carcinologique  
Chirurgie générale  
Oncologie médicale  
Radiothérapie  
Endocrinologie  
Nutrition  
Médecine de famille

Lieu d'enseignement :  
Institut National de Nutrition/  
Institut Salah Azaiez

Programme :  
• Samedi 12 Octobre 2024 : Module 1 : Aperçu général sur la nutrition en oncologie et retentissement des traitements systémiques des cancers sur la nutrition  
• Vendredi 18 Octobre 2024 Module 2 : Effets du traitement locorégional des cancers sur la nutrition  
• Samedi 19 Octobre 2024 : Ateliers d'évaluation de l'état nutritionnel  
• Samedi 26 Octobre 2024 : Cas particuliers et nouvelles tendances nutritionnelles

Lien d'inscription : <https://forms.gle/EKeARrxhwnJ1ZLA99> Frais d'inscription : 200 DT



§ MASTER CLASS: NUTRITION AND CANCER

24 Apr master class organised by the faculty of medicine of Tunis according to the downloadable flowchart

Learning Objectives:

As a result of this Master class, you will be able to:

1. Relate evidence-based dietary approaches associated with reduced risk for cancer.
2. Analyze dietary patterns that show evidence of risk reduction for cancer development.
3. Identify the molecular and biological functions of individual nutrients and herbs in the context of the hallmarks of cancer.

§ Cooperation agreement

Signing of a cooperation agreement between the national institute of nutrition and food technology (Zouhair Kallel) and the university of Tunis el Manar.

On February 16, 2024, the National Institute of Nutrition and Food Technology (Zouhair Kallel) signed a cooperation agreement with the University of Tunis El Manar under the supervision of Mrs. Najwa Ben Amara, the General Director of the National Institute of Nutrition, and Mr. Moez Shafra, the President of the University. Both parties welcomed this initiative, which will open up opportunities for scientific and research collaboration between the research laboratories of the Institute of Nutrition and the University of Tunis El Manar.

The President of the University also honored Mrs. Najwa Ben Amara and Professor Jalila Al-Ati in recognition of their valuable contributions to supporting scientific collaboration with the research structures within the University's institutions.



Learn more about University of Tunis El Manar



## Learn more about University of Tunis El Manar



## AWARENESS WORKSHOP

To promote health and raise awareness of well-being among students, the Tunisian Association for Scientific Research, Innovation, and Action for Sustainable Development (ATRIADD) of the Faculty of Economic Sciences and Management of Tunis (FSEGT) and the Research Laboratory, EDDRNA are organizing in collaboration with the Zouhair Kallel National Institute of Nutrition and Food Technology (INNTA), an event on Friday, November 10, 2023, from 9:30 AM to 12:30 PM, at a stand at FSEGT.

### The Food Talk workshop offers an opportunity to:

Meet and interact with nutrition advisors from INNTA.

Enhance knowledge on:

- balanced nutrition and creating affordable, balanced menus.
- risks associated with being overweight.
- iron-deficiency anemia resulting from nutritional iron deficiency.

**Screening for overweight issues, particularly visceral fat (BMI calculation and waist circumference measurement)**

- Providing information on INNTA resources and contact points for potential support in managing overweight or obesity.

**Distributing materials on Balanced Nutrition.**







**3** GOOD HEALTH  
AND WELL-BEING



**IMPACT**



**PRIORITY**



**PARTNERS**



**COMMUNITY**

**GOOD WELTH AND WEL-BEING**



### 1. UTM' strategy and politics to promote ODD3 implementation

Université Tunis El Manar is actively committed to advancing Sustainable Development Goal 3 (SDG 3) «Good Health and Well-being" by fostering education, research and community outreach programs aimed at improving public health, healthcare access, and overall well-being in Tunisia.

UTM counts four leading academic institutions that provide comprehensive training across diverse health disciplines, notably the Faculty of Medicine of Tunis. UTM also encompasses one of Tunisia's most prestigious health research centers, the Pasteur Institute of Tunis, recognized for its significant contributions to medical research and public health advancements. Through collaborations with health institutions and initiatives focused on medical research, the university prioritizes a healthier society as part of its academic and social mission.

UTM is also committed to guarantee a healthy environment for its staff, students, and visitors through applying a smoke free politic. In fact, the university is dedicated to ensuring a smoke-free campus environment to prevent the risks of second hand smoke, respecting individuals' right to smoke while minimizing tobacco-related harm. Its politic includes prohibiting smoking, tobacco advertising, promotion, and sales in university-controlled spaces, and refusing funding from the tobacco industry.

UTM is willing to provide its students, teachers, administrates and workers with access to health services through the medical center "Tawhida Ben Cheikh" located at the Faculty of Mathematical, Physical and Natural Sciences in Tunis. It is intended for the students, teaching and administrative staff of the Farhat Hached University Campus of El Manar. Under the dual supervision of the Ministry of Higher Education and the Ministry of Health, a team of health professionals (general practitioners, dentists, ophthalmologists, psychiatrists and nurses)

Provide reception, consultations, prevention and awareness-raising activities, mornings and afternoons, every working day of the week.

The center also plays an active role in promoting health in the university environment, by setting up stands to publicize its services and carry out screening tests for chronic diseases such as hyperglycemia or hypertension, and for mental health problems.

### 2. SDG3 actions in UTM

University Tunis El Manar includes six higher education and structures providing teaching in different health sectors as well as medical research structures: Faculty of Medicine of Tunis, Institut Pasteur of Tunis, Higher Institute of Applied Biological Sciences of Tunis, Higher Institute of Nursing Sciences of Tunis, Higher Institute of Medical Technologies of Tunis, Higher School of Health Sciences and Techniques of Tunis. Besides, four university hospitals are affiliated to University Tunis El Manar: Charles Nicolle hospital, Al Rabta hospital, Béshir-Hamza Children's Hospital and the Military Hospital.



## SDG3: Good Welth and wel-being

### 2.1. Events promoting Health and wellbeing:

#### UTM Barrier-free University

The University of Tunis El Manar is the only Tunisian university to offer two academic training courses in Physiotherapy for the visually impaired and blind, taught at the Higher School of Health Sciences and Techniques of Tunis, as well as sign language training at the Higher Institut of Human Sciences of Tunis.

For an inclusive university, and to raise awareness among all those involved of the need to take action on behalf of the beneficiaries of the program, a "UTM Barrier-Free University" day was held on Thursday May 26, 2022 at the Tunis Faculty of Medicine.



#### SURVEY ON THE PREVALENCE OF HEALTHCARE-ASSOCIATED INFECTIONS IN LA RABTA AND CHARLES NICOLLE HOSPITALS

With the aim of establishing a plan to monitor healthcare-associated infections and prevent their health and financial impact, the Ministry of Health, in collaboration with the World Health Organization (WHO), intends to conduct a survey of healthcare-associated infections in hospitals.

To this end, a training course was organized for staff at La Rabta and Charles Nicolle hospitals (UTM), from May 23 to 25, 2022. It was given by Dr Sara Tolba and Dr Engy Hamed, experts from the WHO Regional Office for the Eastern Mediterranean.

Several points were covered during the course:

- Surveillance of healthcare-associated infections in low- and middle-income countries
- An introduction to point survey techniques
- Roles and responsibilities of the data collection team
- A presentation of the tools required for the survey.

<https://www.emro.who.int/fr/tun/tunisia-news/enquete-hopitaux-rabta-charles-nicolle.html>

#### Launch of the "Béchir-Hamza Children's Hospital: a tobacco-free healthcare facility" initiative

The "Béchir-Hamza Children's Hospital: a tobacco-free healthcare facility" initiative was launched on July 2, 2022. To bring this project to fruition, several parties joined forces, namely:

- The Ministry of Health;
- Béchir-Hamza Children's Hospital;
- The World Health Organization in Tunisia;
- The Tunisian Alliance against Tobacco;
- The Tunisian Association for the Defense of Children's Rights;
- The Tunisian Red Crescent.

<https://www.emro.who.int/fr/tun/coup-projecteur/hopital-bechir-hamza-enfants-sans-tabac.html>

**SDG3: Good Welth and wel-being**

**Tunisia (Charles Nicolle Hospital and Hédi Chaker Hospital) receives support from Canada and WHO to strengthen neonatal health care in Tunisia in the context of COVID-19.**

With the support of the Government of Canada, WHO is working to strengthen neonatal health care in Tunisia as part of its ongoing work in the field of reproductive health. This essential support of 500,000 Canadian dollars will boost ongoing efforts to build the capacity of health workers using specialized medical equipment for neonatal services. It will also support neonatal healthcare services in Tunisia's maternity and neonatal center, the neonatal unit at Charles Nicolle Hospital (UTM) and the neonatology unit at Hédi Chaker Hospital in Sfax.

Support for the maternity and neonatal center includes an ambulance equipped for newborn care, 12 resuscitation incubators, four neonatal ventilators, six syringe pumping stations and four surveillance monitors.



**The WHO mission for the mRNA Technology Transfer Initiative in Tunisia**

Tunisia is one of 6 African countries (Egypt, Kenya, Nigeria, Senegal, South Africa and Tunisia) selected to receive technology transfer for the production of messenger RNA vaccines, as part of a World Health Organization (WHO) initiative.

In this connection, a team of WHO experts visited Tunisia from August 23 to 25, 2022 to meet with the project's various stakeholders, namely the Institut Pasteur of Tunis (UTM), the national drug regulatory authority, the national drug control laboratory, the pharmaceutical inspectorate, the Sidi Thabet technology park and other departments of the Ministry of Health.

By improving access to quality medical products, local production can lead to global health coverage and help meet the health challenges of the sustainable development goals.

As a result, the world will be healthier and more resilient, and moreover, the creation of jobs and economic opportunities will be promoted.



**La mission OMS pour l'Initiative de transfert de technologie ARNm en...**

La Tunisie est l'un des 6 pays africains (Egypte, Kenya, Nigeria, Sénégal, Afrique du Sud et la...



## SDG3: Good Welth and wel-being

### Celebration of World No-Tobacco Day

To celebrate World No Tobacco Day 2022, several activities were organized throughout the week of May 31 to June 3, 2022 by the Ministry of Health and the Basic Health Care Department in partnership with the World Health Organization in Tunisia, the WHO Framework Convention on Tobacco Control, the Tunis Faculty of Medicine (UTM) and the Tunisian Alliance against Tobacco.



### Célébration de la Journée mondiale sans tabac 2022

Afin de célébrer la Journée mondiale sans tabac 2022, plusieurs activités ont été organisées tout au long de la semaine du 31 mai au 3 juin 2022 par le ministère de la Santé et la Direction des Soins de Santé de Base ...

 World Health Organization /

### Hearing Health Awareness Day (Thursday, MARCH 31, 2022)

As part of World Hearing Day, the Ichara Association, in collaboration with the Laboratoire de Génomique Biomédicale et Oncogénétique, the Association Amicale des Syndicats des Surveillants de la Santé Publique, the Specialized Unit "Communication, Science et Société UNISS", and other ENT clinicians and para-clinicians in audiology and speech therapy; organized a hearing health awareness day for staff and researchers at the Institut Pasteur de Tunis.

In this context, a visit to the ENT specialist for an ear check-up was organized, followed by a visit to the audiologist for hearing measurements, and a consultation with the speech therapist.

The Rabta University Hospital organized a deafness screening day on Saturday, June 10, 2023 from 9 a.m. to 1 p.m.

[https://www.facebook.com/watch/live/?ref=watch\\_permalink&v=229950476457651](https://www.facebook.com/watch/live/?ref=watch_permalink&v=229950476457651)

**Diabetes screening for afternoon and night on-call staff at Charles Nicolle Hospital, from 04/12/2023 to 27/12/2023**

 Service de Médecine du Travail de l'Hôpital Charles Nicolle de Tunis  
1 décembre 2023 · 🌐

Le service de Médecine du Travail organise en collaboration avec le syndicat de l'Hôpital Charles Nicolle, l'administration et la pharmacie interne, une campagne de dépistage du diabète au profit des personnels de soins titulaires de l'Hôpital Charles Nicolle du 04/12/2023 au 27/12/2023.  
Heure : de 10h à 12h.  
Lieu : Planning par service et par date (voir ci-joint).  
Soyez nombreux.





**SDG3: Good Welth and wel-being**

A medical team from the Cardiovascular Diseases Unit at Rabta University Hospital recently performed a left ventricular assistance device transplant operation on a patient suffering from acute heart failure



**Tunisie | Un nouveau succès médical au CHU La Rabta**

Une équipe médicale du pôle des maladies cardiovasculaires du centre hospitalier universitaire de la Rabta a réalisé récemment une opération de

La Presse de Tunisie / Dec 8. 2023

A team of rhythm cardiologists of the cardiology department of La Rabta hospita placed a pacemaker on the heart of a patient who was twelve weeks pregnant and suffering from a complex congenital heart defect.This is the world's first implantation of a physiological left-branch pacing system in a 30-year-old pregnant woman with complete atrioventricular block and corrected transposition of the great vessels.



**Hôpital de la Rabta | Service de cardiologie : Une première mondiale dans la rythmologie cardiaque...**

Une équipe de cardiologues rythmologues a posé un stimulateur cardiaque sur le cœur d'une patiente enceinte de douze semaines et qui souffrait

La Presse de Tunisie / Nov 7. 2023



## 2.2. Awards and Honours

Professor Abdellatif Chabbou, Professor in the Department of Respiratory Diseases, Faculty of Medicine, Tunis El-Manar University, received an award from the World Health Organization (WHO) for his major contribution to tobacco control and to the success of World No Tobacco Day and its chosen theme .

Learn more about University of Tunis El Manar



### Prix

Chaque année, l'Organisation mondiale de la Santé (OMS) décerne des prix à des personnalités ou organisations importantes ayant apporté une contribution majeure à la lutte antitabac et au succès de la Journée...

 World Health Organization /

### AWARD

This award reflect WHO's recognition of the time and effort they have devoted to tobacco control and campaigning. In 2022, seven prizes were awarded on the occasion of World No Tobacco Day, one of which went to Professor Abdellatif Chabbou, Professor in the Department of Respiratory Diseases, Faculty of Medicine, El-Manar University, Tunis, and Secretary General of the Ligue nationale de lutte contre la tuberculose et les maladies respiratoires (Tunisia).

### Rym Kefi, senior lecturer at Pasteur of Tunisia (UTM) wins the “Sadok Besrour” 2022 Prize

On Saturday November 13, 2022, Rym Kefi, senior lecturer at the Laboratoire de Génomique Biomédicale et Oncogénétique, Pasteur Institute of Tunisia, was awarded the Sadok Bessrour prize for excellence in research.

Awarded by the Université de Montréal, the Sadok Besrour Foundation and the Ministry of Higher Education and Scientific Research, the prize recognizes excellence in research in medicine and the health sciences. The prize is awarded annually to candidates or teams who have distinguished themselves through their achievements in these fields in Tunisia.



## SDG3: Good Welth and wel-being

### **Dr. Erij Messadi (Psteur Institute of Tunisia, UTM) wins 1st Prize in the Institutinal Research Caterory of the 1st World Cup of Invention and Scientific Research-Tunisia 2022 Expo TICAD INNOVATION**

Dr. Erij Messadi, researcher at the Biomolecules, Venoms and Theranostics Applications Laboratory, won the 1st prize in the Institutional Researcher category of the 1st World Cup of Invention and Scientific Research - Tunisia 2022\_Expo TICAD Innovation, for her invention entitled: "lebecetin, a venom-derived c-type lectin, as a treatment of ocular neovascularization».



### **Pr. Ridha Barbouche Appointed Emro Representative and member of the steering committee of the WHO Global Nitags Network.**

Pr. Ridha Barbouche, Head of the Transmission, Control and Immunopathology of Infections Research Laboratory, Pasteur Institute of Tunisia (UTM), has been appointed representative of the EMRO Region 'Easten.

Mediterranean) and member of the Steering Committee of the WHO Global NITAGs Network (GNN).

He is also an observer and GNN representative on the WHO's Strategic Advisory Group of Experts (SAGE), the highest advisory authority on immunization



### **Dr. Emna FEHRI a member of the prestigious American society "SIGMA Xi"**

Dr. Emna FEHRI, a post-doctoral researcher in the Laboratory of Molecular Epidemiology and Experimental Pathology, as well as in the Laboratory of Human and Experimental Pathological Anatomy in Institut Pasteur de Tunis, has been officially named a member of the prestigious American society "SIGMA Xi".

This society, founded in 1886, is the oldest international multidisciplinary scientific association. Dr Emna FEHRI's scientific work focuses on the identification of molecular and immunohistochemical markers involved in cancer diagnosis, prognosis and progression.

### **Dr. Lilia ROMDHANE honored with the prestigious Sadok Besrour Prize for Excellence in Medicine and Health Sciences for the year 2023**

Dr. Lilia ROMDHANE, lecturer at the Faculty of Sciences in Bizerte and Researcher at the Biomedical Genomics and Oncogenetics Laboratory at the Institut Pasteur in Tunis, was recently honored with the prestigious Sadok Besrour Prize for Excellence in Medicine and Health Sciences for the year 2023.

This distinction, awarded by the Sadok Besrour Foundation, the Université de Montréal and the Ministry of Higher Education and Scientific Research, aims to promote excellence and innovation in research development and knowledge transfer.

The award also aims to stimulate excellence and innovation in the training of students in medicine and the health sciences.



**2.3. Courses, Workshops and events dedicated to researchers and health staff in the different sectors of scientific research in health:**

- Introduction of Bioinfomartics to Arab education Systems" 21-22 novembre Course 2022. Organized by Pasteur Institute of Tunisia, the Arab German Young Academy and the Faculty of Sciences of Bizerte.
- Training in the fundamentals of bioethics and preparation of a submission to the biomedical ethic committee organized by the ethics committee of Pasteur Institute of Tunisia.
- Conference: Strategies for eliminating canine rabie.

To mark World Rabies Day, the Institut Pasteur in Tunis organized a conference on Wednesday, September 28, 2022, entitled "Strategies for eliminating canine rabies", presented by Dr Florence CLIQUET, international expert and member of the ANSES rabies and wildlife laboratory.



**SEMINAR**

**Seminar: AIDS and COVID-19: asyndemic in Africa (August2022)**

Pasteur Institute of Tunisia organized an exceptional seminar entitled: AIDS and Covid-19: A Syndemic in Africa. This seminar was presented by Pr. Quarraisha Abdool Karim, and Pr. Salim S. Abdool Karim, from the Centre for the AIDS Programme of Research in South Africa (CAPRISA), Durban & Columbia University, New York.



**Lecture: "DEVELOPMENTAL OR ADAPTIVE MYELINIZATION: A HISTORY OF EFFICACY", May 2022.**

Odile Boespflug-Tanguy, Professor of Medical Genetics, University of Paris, Head of the "NeuroDev" UMR INSERM 1141 NeuroDiderot team, Neuropediatrician-Neurogeneticist, gave a talk entitled "Developmental or adaptive myelination: a history of efficiency"

**Practical training workshop in allergology: interactive clinical cases (May 2022)**

The Pasteur Institute of Tunisia (UTM), in collaboration with Stallergenes-Greer Laboratories, organized a practical training workshop in Allergology: CLINICAL CASES. This workshop aimed at the links in the care chain for allergy sufferers.



## SDG3: Good Welth and wel-being

### WHO/TDR\_Massive open online course on IR\_Arabic session

Pasteur Institute of Tunisa (UTM) and the TDR-supported Regional Training Centre for WHO-EMR organized a session in Arabic of the TDR Massive Open Online Course (MOOC) on Implementation Research (IR) for countries from the WHO EMR region.

This free course is a step-by-step online training for public health researchers and decision-makers, disease control programme managers, academics and others, that focuses on how to design and demonstrate robust IR projects to improve control of infectious diseases of poverty and generate better health outcomes

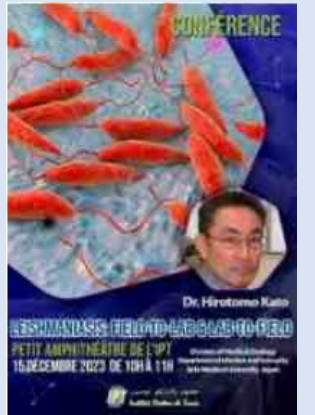
### Webinar “Therapeutic updates for Infantile Spinal Muscular Atrophy (February 2022)

On the occasion of the 15th International Day of Rare Diseases, a webinar was organized by the newly-created "SMA Tunisia" Association in collaboration with the Tunisian Association of Child and Adolescent Neurology (ATNEA), the Association la Recherche en Action (REACT), as well as the Pediatric Neurology Department of the Institut National Mongi Ben Hmida de Neurologie in Tunis and the research laboratories LR18SP04 and LR20IPT05, the Institut Supérieur de Biotechnologies de Sidi-Thabet and Tunivision Club (ISBST). The program for this webinar includes a lecture entitled "Therapeutic news for infantile spinal muscular atrophy", presented by Dr BOESPFLUG TANGUY, Professor of Neuropediatrics, geneticist and Director of I-Motion, followed by a discussion session with representatives of the SMA Tunisia Association.



### Lecture “Leishmaniasis: Field-to-Lab & Lab-to-Field” (15/12.2023):

Dr. Hirotomo Kato, Division of Medical Zoology, Department of Infection and Immunity, Jichi Medical University, Japan, presented a lecture about “Leishmaniasis: Field-to-Lab & Lab-to-Field”.



### International Measles/Rubella Serology Training for Somalia (November 27 to December 1, 2023):

The Clinical Virology Laboratory at the Institut Pasteur de Tunis, serving as the WHO Regional Reference Laboratory (RRL) for Poliomyelitis and Measles/Rubella surveillance, in collaboration with the World Health Organization's Eastern Mediterranean Office organized the International Measles/Rubella Serology Training for Somalia

The training program included both theoretical and hands-on laboratory sessions, allowing Somali participants to conduct serological tests in accordance with practical recommendations provided by the WHO, while adhering to biosafety and biosecurity requirements. It aimed to:

- Guide participants from Somalia on the accreditation criteria established by the World Health Organization (WHO) for National and sub-national Measles/Rubella Laboratories.
- Impart best practices in confirming suspected cases of measles/rubella, aligning with the standards set by the Global Measles/Rubella Laboratory Network.





## SDG3: Good Welth and wel-being

### World Diabetes Day (14 November 2023):

As part of World Diabetes Day, the research team led by Dr. Rym Kefi at the Laboratory of Biomedical Genomics and Oncogenetics (LR16IPT05) at the Institut Pasteur de Tunis (IPT), in partnership with the Association des Jeunes Chercheurs (AJC) and the Unité Spécialisée Communication Science et Société (UNISS), organized a scientific morning that addressed crucial aspects of diabetes research and awareness.

### Conference: “Genomic Surveillance and Characterization of Microbial Threats Facilitates Early Detection and Containment of Disease Outbreaks in West Africa” (20 November 2023):

The conference, entitled “Genomic Surveillance and Characterization of Microbial Threats Facilitates Early Detection and Containment of Disease Outbreaks in West Africa”, was moderated by Professor Christian T. Happi, Director of the African Centre of Excellence for Infectious Disease Genomics.

### Conference: “How do CD8+ T-cells contribute to protect in human tuberculosis?”( 16 november 2023)

The conference took place at Institut Pasteur de Tunis and was moderated by Professor Steffen Stenger, Director of the Institute for Medical Microbiology and Infection Control at Ulm University Hospital, Germany.



### Launch meeting of the WHO-TAG-G in Geneva (5 and 6 October 2023):

Dr. Yosr Hamdi, Biologist and Researcher at the Biomedical Genomics and Oncogenetics Laboratory at the Pasteur Institute of Tunis, and coordinator of the PerMediNA project, has recently joined the World Health Organization's (WHO) Technical Advisory Group on Genomics (WHO-TAG-G).

Composed of several international experts in the field, the WHO-TAG-G was created in September 2023 to provide WHO with technical advice and to accelerate access to genomic knowledge and technologies, particularly in low- and middle-income countries. Over the next two years, the group will focus primarily, but not exclusively, on human genomics



### Special day in honor of Pink October (14 October 2023):

The PerMediNA project, in collaboration with the Association des malades du cancer (AMC) and the Association des Jeunes Chercheurs de l'Institut Pasteur de Tunis, organized a special day in honor of Pink October, breast cancer awareness month.

SDG3: Good Welth and wel-being

The day highlighted the importance of genetic testing in the fight against breast cancer.



Scientific day about genetics in hearing health (28 September 2023):

The Institut Pasteur de Tunis, in partnership with the Institut Français de Tunisie, organized a scientific day, as part of the ISSMA project “Interest and Contribution of Exome Sequencing in the Diagnosis of Deafness in Tunisia: from Research to Medical Practice in Hearing Health”.

The aim of this scientific day is to put forward an exchange of experiences with a multidisciplinary panel of national and international experts in the field of genetics in hearing health, in order to assess the current situation of research on genetic deafness in Tunisia and its impact on the management of childhood deafness.

AMAX Project (African Modeling and Analytics Academy for Women):

The AMAX project at the Institut Pasteur de Tunis is an innovative initiative aimed at improving women's health in Africa through advances in mathematical modeling and data analysis.



**Project's mission:** Women in Africa face significant barriers to accessing healthcare, including financial, cultural and social challenges.

The AMAX project is committed to addressing these challenges. by creating an African network focused on mathematical modeling and data analysis, with an emphasis on the specific health needs of women. The project focus on four key infectious disease research questions: human papillomavirus (HPV), hepatitis B virus (HBV), COVID-19 and antimicrobial resistance (AMR).

- **Violence in the hospital environment day organized by the ethic committee, Faculty of Medecine of Tunis, UTM.**
- **Biohazard crisis communication training (29, 30 and 31 March, 2022)**

Organized by the Communication Committee of the Faculty of Medicine of Tunis in collaboration with the Directorate General of Military Health and GIZ, as part of the biosafety-biosecurity project.

- Transversal training: Announcement of bad news
- Workshop seminar of the Tunisian Society of Clinical Biology
- DIU pharmaco-génétique et médecine personnalisée.

CNEM Scientific Day: Racial discrimination in health: science and ethics in perspective (16 June 2023)

The scientific day tackle racism, xenophobia and discriminatory discourse issues in medecine from 4 angles: ethical from the perspective of healthcare professionals, scientific, historical and legal.





## Learn more about University of Tunis El Manar



### **FACULTY OF MEDECINE OF TUNIS MASTER CLASSES**

The Faculty of Medicine of Tunis provides a wide range of masterclasses to promote the skills of healthcare professionals and medical scientific research, and consequently improve the quality of care offered to patients. These advanced training courses in various areas of medical practices are destined to doctors, residents, health technicians and laboratory experts, hygienists, nurses, and the juxtamedical professions.

- The essential tools for thorax exploration
- Pediatric Hematology
- Tobacology and smoking cessation assistance
- Hematology imaging
- Organ retrieval and transplantation from a brain-dead donor
- EARLY WARNING AND RESPONSE
- Skin cancers: diagnostic and therapeutic approach
- Oncogenetics and therapeutic application
- ONCO-NÉPHROLOGIE
- Early detection of psychosis
- Vitreoretinal pathology and surgery
- Screening and management of mental disorders by non-psychiatrists
- Skin cancers: diagnostic and therapeutic approach
- Management of acquired and Congenital Haemorrhagic Diseases of Haemostasis
- Therapeutic News in Cervical Cancer
- Positron emission tomography coupled to scanner and adult lymphoma
- Improvement of the management by external fixators in orthopedic surgery
- Hematology emergencies
- Hemoglobinopathies
- Minimally invasive surgery for gynecological cancers.

**The Faculty of Medicine of Tunis has provided several courses and postgraduate education in different aspects of medicine:**

- 15 october 2023: webinar bacterial infections
- 07 july 2023: characterization of colorectal adenocarcinomas with microsatellite instability (cmcu23go813) annual meeting
- 16 june 2023: cnem scientific day: racial discrimination in health: science and ethics in Perspective

## SDG3: Good Welth and wel-being

**The Faculty of Medecine of Tunis has provided several courses and postgraduate education in different aspects of medecine:**

- 15 October 2023: webinar bacterial infections
- 07 July 2023: characterization of colorectal adenocarcinomas with microsatellite instability (cmcu23go813) annual meeting
- 16 June 2023: cnem scientific day: racial discrimination in health: science and ethics in Perspective
- 31 May 2023: 5th course dissection of temporal bone
- 02-03 Mars 2023 : masterclass de chirurgie laparoscopique
- 3 Mars 2023: « advanced ep course »
- 25 February 2023 : epu: amputation du membre inferieur
- 25 February 2023 : EPU: Les nystagmus
- 25 February 2023 : EPU: Les purpurasEPU Purpura
- 11 February 2023 : EPU : Retard de croissance chez l'enfant
- 11 February 2023 : EPU : Les vertiges
- 11 February 2023 : EPU : Tuberculose neuro-méningée et sur terrains particuliers
- 11 February 2023 : EPU Insuffisance rénale aigue
- 11 February 2023 : EPU : Reflux gastro-oesophagien

### **Pasteur Institute of Tunisia's seminars 2022-2023**

- Pharmacological properties of dromaserpine, an antihemistatic serpin derived from the salivary glands of the tick *Hyalomma dromedarii*.
- Molecular pathology and oncogenetics for a better management strategy for cancer patients in Tunisia.
- Genetic diversity of Tunisian mycoplasma *Galliseptium* isolates and clonal dissemination of their antibioresistance.
- Study of the immune response in neuro-immunological diseases: Multiple Sclerosis and Neuro-Behçet.

- Artificial intelligence in the search for therapeutic molecules against infectious diseases: COVID-19 as a case study.
- The role of modified cells in sickle cell disease: therapeutic perspectives.
- Toxoplasmosis: design and production of innovative therapeutic and immunodiagnostic tools.
- AATS-1, the first tetrapeptide from the scorpion venom *Androctonus australis*, and its analogues inhibit the proliferation of U8 glioblastoma cells.
- Mathematical modelling for biology: sexual allocations, cancer and COVID-19.
- Genetic variability and molecular monitoring of SARS-COV2.
- From promise to reality: obstacles and opportunities for implementing precision medicine in Tunisia.
- Immune response and vaccination against SARS-COV-2 and its variants.
- Targeting alpha-synuclein aggregation for the treatment of Parkinson's disease.
- Constitutional medullary aplasia: place of genetics
- Cumulative incidence of SARS-COV-2 infection among the staff of Institut Pasteur de Tunis, March 2021.
- Diagnosis and molecular monitoring of leukemias
- Leishmania Eucaryotic Initiation Factor (LeIF): as a potential immunomodulator of human macrophages
- Brucellosis: a re-emerging health risk
- Genomic and metagenomic analysis of microorganism diversity
- Research into active biomolecules from snake venom as a therapeutic alternative for human health
- Risk analysis of emerging zoonotic diseases caused by climate change.



Transforming our **relationship** with nature  
is key to a **sustainable future**

Learn more about University of Tunis El  
Manar



**SOCIÉTÉ TUNISIENNE DES SCIENCES MÉDICALES - STSM**

The Tunisien Society of medical sciences and the faculty of medicine of Tunis organises many events to advance research productivity in medicine and healthcare. It hes a special interest in the deployment of artificial intelligence and advanced tools in research writing and publication.





4 QUALITY EDUCATION



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**QUALITY EDUCATION**





### Pr. Halima Mahjoubi, UTM,SDG 4 Ambassador

The University of Tunis El Manar (UTM) is actively committed to contributing to Sustainable Development Goal 4 (SDG 4), which aims to ensure inclusive, equitable, and quality education and promote lifelong learning opportunities. UTM's initiatives to address the imperatives of SDG 4 include:

#### 1. Expanded and Equitable Access to Education

The University of Tunis El Manar (UTM) has made significant efforts in digital infrastructure and training to ensure equitable access to quality education for all students:

**Internet Access and Campus Wi-Fi Points:** UTM has established an extensive network of Wi-Fi access points across its campuses to provide stable and accessible internet connectivity for all students. This infrastructure aims to create a conducive environment for online research, access to digital resources, and online courses. In 2023, UTM reported that 60% of its classrooms and study spaces were equipped with high-performance Wi-Fi access points, a 20% increase from 2021, in response to the growing demand for digital resources in higher education.

**Distance Learning:** The university has developed an online course platform that allows students to access educational resources, attend courses remotely, and interact with instructors outside in-person classes. This initiative was particularly strengthened during the Covid-19 pandemic and has been maintained to enhance inclusivity and flexibility in learning. Currently, 15% of the core courses are available in hybrid or fully online formats, facilitating course access for those who cannot physically attend campus.

**Instructor Training:** UTM also invests in training its faculty to master digital educational technologies and distance teaching. In 2023, nearly 40% of instructors participated in at least one training session on online learning platforms and digital teaching tools, enabling them to deliver interactive and accessible courses, thereby promoting inclusive and quality teaching.

#### 2. Quality Assurance in Education

To meet SDG 4's quality education goals, UTM has developed several targeted initiatives, incorporating mechanisms such as joint supervision, international exchanges, and strategic partnerships to enhance higher education quality assurance.

**Joint Supervision:** UTM promotes joint PhD supervision to enrich doctoral students' guidance through internationally renowned professors. This allows PhD candidates to benefit from diverse perspectives and expertise, contributing to a high standard of research quality. Joint supervision also encourages in-depth collaboration with partner universities, facilitating access to international research networks and shared resources. The number of joint-supervised theses increases annually, reaching 15 in 2023.

**International Exchanges:** Through programs such as Erasmus+ and 140 bilateral agreements, UTM fosters academic and professional mobility. These exchanges offer students and faculty the opportunity to acquire new skills in an intercultural context, discover new teaching methods, and export Tunisian educational practices. This exchange strengthens the integration of global educational standards in UTM's curricula, boosting excellence and compliance with international quality standards.

## SDG4: Quality education

**Strategic Partnerships:** UTM collaborates with higher education and research institutions, NGOs, and local companies such as API and international entities like GIZ to co-develop training, research, and development programs. These partnerships enrich program content, integrate training modules aligned with market needs and societal challenges, and ensure that programs meet international quality assurance standards. The number of conventions in this framework is 20.

**Interdisciplinarity and International Openness:** UTM diversifies its educational offerings through interdisciplinary programs like the ENIT-Faculty of Law Master's, courses in English, and dual degrees with foreign universities, such as the Advanced Technical Program (ENIT-ENSTA).

### STRENGTHENING UNIVERSITY STAFF SKILLS

Three workshops have been organized, covering essential topics such as research center management and quality assurance, the ethical frameworks of scientific research, and the valorization of research results. These training sessions equipped participants with practical skills and in-depth knowledge in these key areas. <https://dirasa.eu/formation-palermeprojets-eu-recherche/>

### Scientific Research Ethics:

Training on research ethics, held in Tabarka from November 22 to 24, 2023, aimed to popularize ethical frameworks and research activity standards, including codes of conduct and anti-plagiarism systems. The training was presented by experts from the University of Pavia and the University of Pisa and was attended by university leaders (vice-rectors for scientific research, deans, vice-deans), academic staff (faculty and researchers), and administrative leaders (research service directors and laboratory heads). Best practices acquired are perpetuated through cascade training for colleagues, with monitoring and potential audits conducted by European bodies.



### Training on European Projects:

An intensive week-long training took place in Palermo, Italy, focused on European and international funding programs, particularly Horizon Europe. Participants learned to draft high-quality project proposals, set up budgets, and understand the proposal evaluation process. The training also emphasized Responsible Research and Innovation (RRI) principles. <https://dirasa.eu/formation-palermeprojets-eu-recherche/>

**Certifications and Accreditations:** UTM has implemented a rigorous quality monitoring system through the accreditation and certification of some of its institutions, ensuring education that meets international standards. (Six institutions certified ISO 21001, two institutions certified ISO 9001). The number of accredited institutions is increasing.



## SDG4: Quality education

**Certifications and Accreditations:** UTM has implemented a rigorous quality monitoring system through the accreditation and certification of some of its institutions, ensuring education that meets international standards. (Six institutions certified ISO 21001, two institutions certified ISO 9001). The number of accredited institutions is increasing.

**Pedagogical Innovations:** The university integrates innovative teaching methods that promote active learning, the use of digital platforms, and distance education, complementing in-person classes to ensure flexible access to quality education. This includes training sessions on educational technologies and digital pedagogy for various university community members in Tunisia (decision-makers, technopedagogical support staff, faculty members).

<https://appelsprojets.auf.org/appele-a-candidatures-2024-formations-technopedagogiques-de-lific/>

### **Tripartite Training: Tunisia - Japan - Africa**

This tripartite training, supervised by UTM, is part of a quality assurance approach in higher education, aimed at strengthening regional expertise in medical technologies. Under the Tunisia-Japan-Africa partnership, the second session of training for African trainers, completed on October 23, 2024, at the Cité des Sciences in Tunis, certified 18 participants from eight African countries. They benefited from a theoretical and practical program in medical technology management, delivered by professors from the Higher Institute of Medical Technologies of Tunis and experts from the Japan International Cooperation Agency (JICA). This initiative reflects UTM's commitment to promoting quality education and integrating advanced skills crucial to developing healthcare capacities in Africa.





## SDG4: Quality education

### International Arab Conference on Quality Assurance in Higher Education

The University of Tunis El Manar is honored to organize, in partnership with the Jordanian University of Ezzarka, the 11th Edition of the International Arab Conference on Quality Assurance in Higher Education, which will take place on November 8-9, 2023, at the Ramada Plaza Hotel in Gammarth. This conference will host a significant number of academic researchers from 16 Arab countries and aims to promote the culture of quality assurance and its practices within Arab universities. It is a peer-reviewed conference, with proceedings to be published in the Scopus database by an international publisher.



### 1. Promoting Lifelong Learning

**Continuing and Specialized Training:** UTM offers a wide range of continuing education programs for professionals, such as project management certifications (PRINCE2 and PMP), entrepreneurship training, and specialization courses in technology and innovation. An agreement with CNAM Paris supports this initiative.

**Entrepreneurship Support:** Initiatives like the student entrepreneur hub, innovation competitions, and entrepreneurship coaching encourage students to develop skills beyond the traditional academic framework (UTM INNOV competition held annually), and the establishment of a University Pole for Technological Innovation (PUIT).





## SDG4: Quality education

### 4. Initiatives for a Healthy and Inclusive Learning Environment

**Health and Well-Being Awareness:** UTM has created video capsules to raise awareness about preventive measures and promote a safe return to campus after the Covid-19 pandemic.

The Taouhida Becheikh Health Center, located on UTM's campus, plays a central role in promoting a healthy and inclusive learning environment. This center is equipped to provide frontline health services to students, including medical consultations, psychological support, and emergency care. An annual survey is conducted to evaluate the quality of care and gather student feedback, which informs service adjustments to ensure high-quality care. The center also participates in awareness campaigns on mental health, disease prevention, and overall well-being, fostering a university environment focused on student health and safety.



**Cultural and Sports Activities:** Events such as the Badminton Championship in partnership with the national federation, Creative Theatre Day, and the Golden Company View Challenge (GCC) offer students opportunities to thrive in extracurricular settings, promoting holistic and balanced learning.

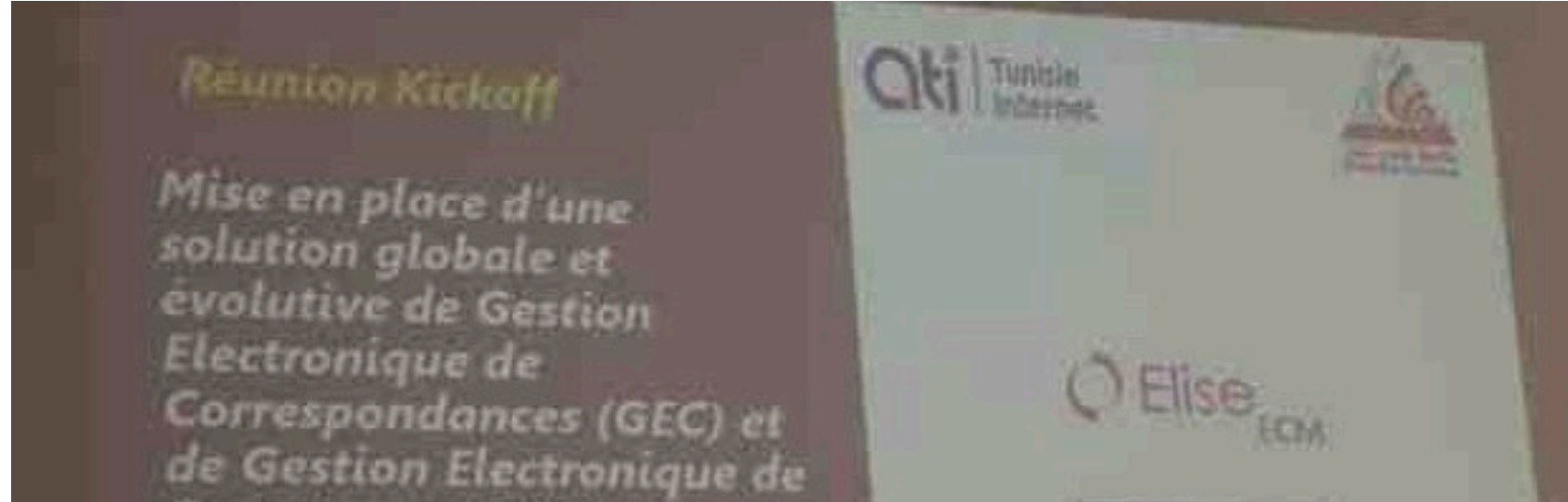




## SDG4: Quality education

### 5. Information Systems for Modern Educational Management

Digital Platforms: UTM has implemented advanced digital tools for exam management, data analysis, electronic document management, and process digitization. These initiatives modernize university management and enhance the quality of the educational experience for everyone. (Acquisition of an electronic document management system and a correspondence management system.



### 6. In conclusion

The University of Tunis El Manar demonstrates a strong commitment to SDG 4 through a comprehensive and inclusive approach. By supporting initiatives focused on equity, quality, and lifelong learning, UTM significantly contributes to building a sustainable and resilient education system in Tunisia, aligned with international standards and responsive to socio-economic needs.







IMPACT



PRIORITY



PARTNERS



COMMUNITY

**QUALITY EDUCATION**



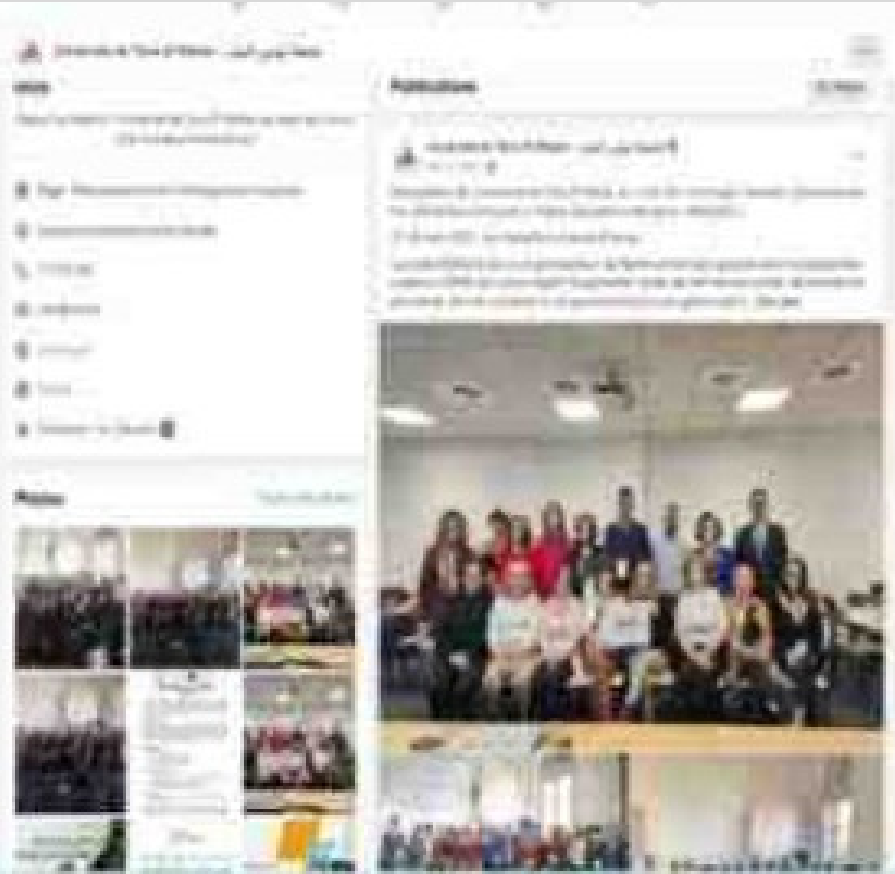
Dr. HALIMA OUANADA

Dr. of French language, literature and civilization, University of Tunis El Manar, Higher expert in gender studies and communication. She is the President of the Tunisian Association of Enlightenment Studies(ATEL).She is currently the coordinator of the Erasmus+ WE4HER Leadership project and is also a member of the management, implementation and communication committee of the Development of the Strategic Management of Universities project of the University of Tunis El Manar (PAQ-DGSU-UTM).

Email: halima.ouanada@issht.utm.tn

1. Sustainability Events: A Selection

Université de Tunis El Manar-Bienvenue (rnu.tn)  
<http://www.utm.rnu.tn/utm/fr/evenement-315-kick-off-du-projet-we4lead-mars-2023>  
[https://m.facebook.com/story.php?story\\_fbid=pfbid02XbaHJG5tUdbPrDEDVnBVj65ppZpH3XtNBx32T3ovJzU8AybfS7SieFzhcSvpfUFI&id=100064477878581&mibextid=Nif5oz](https://m.facebook.com/story.php?story_fbid=pfbid02XbaHJG5tUdbPrDEDVnBVj65ppZpH3XtNBx32T3ovJzU8AybfS7SieFzhcSvpfUFI&id=100064477878581&mibextid=Nif5oz)



[FacebookLink](<https://www.facebook.com/share/p/SWx5Xh2a9jzsgBuG/?mibextid=oFDknk>)  
[UTM EventLink](<http://www.utm.rnu.tn/utm/fr/evenement-346-reunion-de-coordination-du-projet-we4lead>)





Learn more about University of Tunis El Manar

1. SUSTAINABILITY EVENTS: A SELECTION

During the 9th Global Capacity-Building Workshop on GCED: Empowering Educators for a Culture of Peace through GCED, held online from July 18 -26, 2024 (KST): [<https://www.mission4point7.org>](<https://www.mission4point7.org>, organized by The Asia-Pacific Centre of Education for International Understanding (APCEIU), for 49 educators from 28 countries receiving Official Development Assistance (ODA).

As part of the RAQMYAT projection "Digital Strategies for Doctoral Training in Humanities and Social Sciences in Tunisia " [<https://www.raqmyatproject.eu>] (<https://www.raqmyatproject.eu>).

During the summer school held at the University of Vienna from September 22 to 26, 2024, I gave a lecture on "Gender Equality and Global Citizenship in the Digital Age. "The project was introduced to raise awareness among the audience, which include representatives from several Tunisian universities (Vice Presidents, researchers, and doctoral students from the Universities of Tunis, Kairouan Sfax, Tunis ElManar, Sousse, and the Virtual University), as well as representatives from the University of Vienna and the University of Granada.



## 2. UTM BARRIER-FREE UNIVERSITY

The University of Tunis El Manar is the only Tunisian university to offer two academic courses in Physiotherapy for the visually impaired and blind, taught at the Ecole Supérieur des Sciences et Techniques de la Santé in Tunis, as well as training in sign language taught at the Institut Supérieur des Sciences Humaines in Tunis. To raise the profile of our inclusive university and raise awareness among all those involved of the need to take action to help people (male and female) with disabilities integrate more fully into society, a "UTM Barrier-Free University" day was held on Thursday 26 May 2022 at the Ceremonial Amphitheatre of the Tunis Faculty of Medicine.



## 3. TAWHIDA BEN CHEIKH MEDICAL CENTRE

The medical centre, located at the Faculty of Mathematical, Physical and Natural Sciences in Tunis, is intended for students, teaching and administrative staff at the Farhat Hached University Campus in El Manar. It is under the dual supervision of the Ministry of Higher Education and the Ministry of Health. The centre employs 2 general practitioners, 2 dentists, a midwife, a psychologist, 5 nurses and 1 supervisor to provide reception, consultations and prevention and awareness-raising activities. The centre is also active at various university events to promote health in the university environment, setting up stands to publicise its services and carry out screening tests for chronic illnesses such as hyperglycaemia or hypertension and mental health problems...

## 4. PROJECTS

The University of Tunis El Manar has just signed a partnership agreement for an Erasmus+ project developed as part of the Téthys Euro-Mediterranean network and co-sponsored by the University of Aix-Marseille and the Lebanese University.



**Learn more about University of Tunis El Manar**

## 1. SUSTAINABILITY EVENTS: A SELECTION

This project brings together 9 university partners from 6 Mediterranean countries and an international network. (Algeria, Spain, France, Italy, Lebanon, Tunisia and the international network: Réseau Francophone des Femmes Responsables dans l'Enseignement Supérieur et la Recherche (RESUFF)).

This is a Capacity Building in Higher Education project (Erasmus+ CBHE), the general aim of which is to increase women's access to the highest decision-making positions within universities. One of its specific objectives is to set up a unit within the University dedicated to raising awareness, training and preventing all types of psychological, verbal and physical gender-based violence.

The project was submitted to the European Commission in February 2022, and we are waiting for its approval before we can start work.

**Womens empowerment for leadership in higher Education and research WE4HER Leadership.**

- **Projet : Erasmus – EDU – 2022 CBHE - Strand 2.**
- **Durée : 36 mois – démarrage prévu début 2023.**
- **Coordinateur: Aix- Marseille Université (France).**



## 5.1. Kickoff du Projet « Women's Empowerment For LEADership and Equity in Higher Education Institutions : WE4LEAD - Mars 2023

Project kick-off 27-28 March 2023 - Aix Marseille University (France)

The WE4LEAD project is an Erasmus+ Capacity Building in Higher Education (CBHE) project which aims to increase women's access to the highest decision-making positions, in order to contribute to a fully inclusive governance and management of HEIs. It is part of a wider ambition to transform the governance of higher education institutions (HEIs) around the Mediterranean by disseminating a culture of gender equality. Co-sponsored (project management) by the University of Aix-Marseille (France) and the Lebanese University (Lebanon): La Sapienza University of Rome (Italy), Autonoma University of Madrid (Spain), University of Tunis El Manar (Tunisia), University of Sousse (Tunisia), Constantine 3 Salah Boubnider University and Abdelhamid Ibn Badis University of Mostaganem (Algeria), Antonine University and Lebanese University (Lebanon). Duration: 36 months

Link: [https://eacea.ec.europa.eu/erasmus-plus/actions/key-action-2-cooperation-for-innovation-and-exchange-good-practices/capacity-0\\_en](https://eacea.ec.europa.eu/erasmus-plus/actions/key-action-2-cooperation-for-innovation-and-exchange-good-practices/capacity-0_en)



**Learn more about University of Tunis El Manar**



## Learn more about University of Tunis El Manar

### 5.2. PROJET DEMOS / 3 MARS 2022 / « GOUVERNANCE DÉMOCRATIE ET DROITS DE L'HOMME »

Sustainability Events: A Selection

Creation of a professional master's degree in democratic governance and human rights (DEMOS)

Appel à candidatures : Master professionnel Gouvernance démocratique et droits humains (DEMOS)(rnu.tn)

### 5.3. UTM: PROJET DEMOS

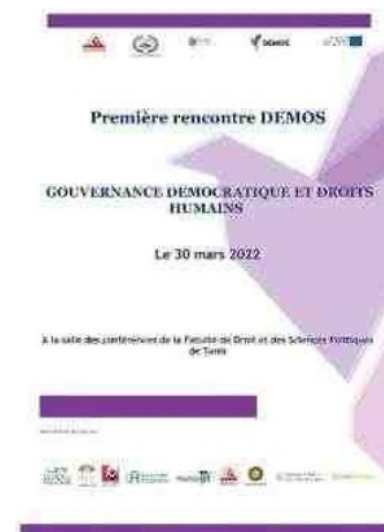
The project aims to address the absence of curricula that will generate postgraduate professionals highly skilled in democratic and human-rights based culture and knowledge. As a result, they will be ready to meet the challenges of institution building in their nation, having a long-lasting impact in the democratic transformation of their environment.

Partnership Agreement between the University of Tunis El Manar (FDSPT) and the University of Carthage (FSJPST) 01-07-2021

### 5.3. ONLINE TRAINING FOR BOTH SEXES FOR PASSING THE COMPETITIVE EXAMINATION FOR THE GRADE OF SENIOR LECTURER IN CHEMISTRY

Online training course 'To succeed in the competitive examination for the grade of Assistant Professor of Chemistry' ES Online 5279 views

The Tunisian Desalination Association (TDA) and the 'Desalination and Water Treatment' Laboratory (LR19ES01) are organising an online training course entitled 'Succeeding in the competitive examination for the grade of Assistant Professor of Chemistry', led by Prof. Béchir HAMROUNI. To register, follow this link: <https://forms.gle/4L6jsfBrTJEYCMhy5>



## SDG5:

### 6. Awareness campaign to mark International Women's Rights Day (9 March 2022)

The ENIT's Health and Environment Club is organising an awareness-raising day against harassment and gender-based violence, with the aim of raising students' awareness and highlighting the serious consequences for the well-being and mental health of victims. A round table discussion on the subject was held at the Ecole Nationale d'Ingénieurs in Tunis on Wednesday 09 March 2022 from 2 pm. The debate was followed by a workshop with psychologists.

In attendance:

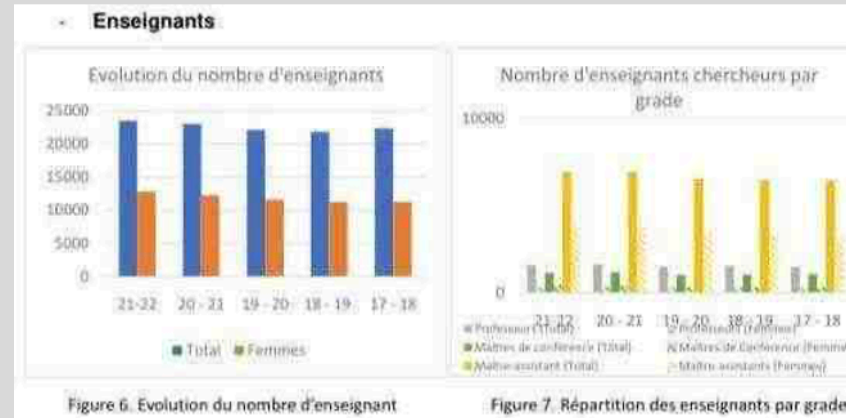
- Radhia Jerbi, President of the National Union of Tunisian Women (UNFT)
- Representatives of the United Nations Population Fund (UNFPA)
- Ms Noura AMRI, ENIT psychologist.
- ENIT: Awareness day against harassment and gender-based violence

<http://www.utm.rnu.tn/utm/fr/galerie-266-enit-journee-de-sensibilisation-contre-le-harcelement-et-la-violence-sexiste>

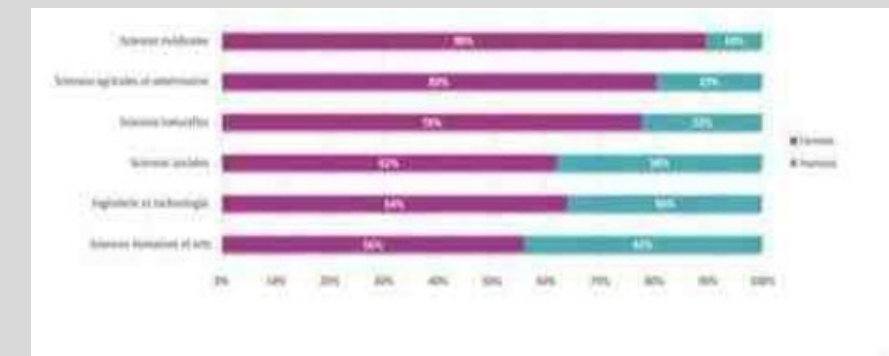


### Development of a gender equality plan at ENIT

Women hold more than 50% of teaching and research posts at university. However, their representation decreases as the grade increases. (Assistant Professor 50% / Professor 20%).



Women hold more than 50% of teaching and research posts at university. However, their representation decreases as the grade increases. (Assistant Professor 50% / Professor 20%).



### 7. ENIT: Tunisia has the highest proportion of women researchers in the Arab world 12 May 2022

On 12 May 2022, the Industrial Engineering Department at ENIT organised a round table entitled 'Women in scientific studies and careers'.

The event was attended by a number of eminent women professors:

- Akissa Bahri: professor, agricultural engineer
- Zohra Benlakhdar: Tunis Faculty of Science and École Esprit de Tunis
- Henda El Fekih: Tunis National School of Engineering
- Youssef Hamza: consultant/expert in the agri-business sector
- Inès Safi: CNRS, Université Paris-Saclay
- Discussant: Elyès Jouini, Université Paris-Dauphine.



## SDG5:

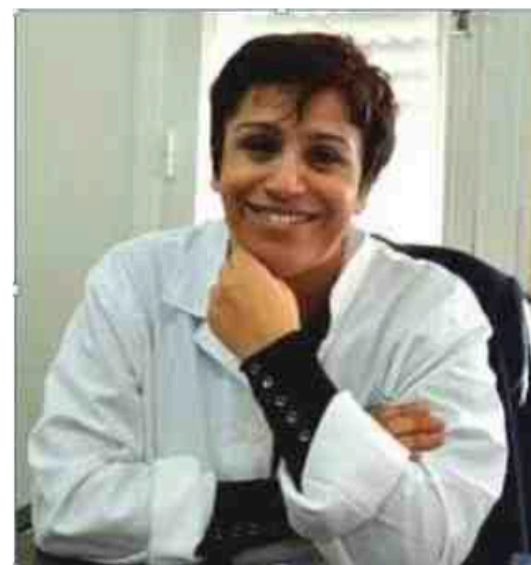
### 8. WOMEN ENTREPRENEURSHIP: FSEGT

#### FSEGT: 'Women entrepreneurship' Workshop

You are a woman: student, researcher, or graduate of one of the UTM institutions, you have an idea, and you want to know how to transform it into a viable business, the Workshop 'Women entrepreneurship: 5-Hour-Challenge: Create to sell' is for you. You can benefit from training provided by Barbara Valenti, an agile business coach, University of Kassel. Seize the opportunity by registering via the following link: <https://forms.gle/Z8iACfr3DLReGFabA>

### 9. Recognition and homage to women's skills at the UTM

The decision by the governing body of the University of Tunis El-Manar to name the building in honor of Tawhida Ben Cheikh is highly symbolic. It is a tribute to this great professor, doctor and Dean of Tunisian women doctors, and above all the first woman doctor in the Arab world.



A homage to an eminent doctor, head of the child psychiatry department and campaigner for women's rights and democracy in Tunisia.



### 10. Presidential Prize

For the Best Laboratory 2019: LMBA Laboratory - FST/UTM 06-08-2019

The Presidential Prize for the best laboratory in 2019 awarded to the 'Microorganisms and Active Biomolecules' laboratory (LMBA) at the Tunis Faculty of Sciences, headed by Professor Imene Ouzari.

For excellent students: 05 August 2022.





**6** CLEAN WATER  
AND SANITATION



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**CLEAN WATER AND SANITATION**





Ambassador SDG 6  
Emeritus Professor at the Faculty of Sciences of the  
University of Tunis El Manar  
President of the Tunisian Desalination Association

The University of Tunis El Manar (UTM) has undertaken several initiatives to contribute to Sustainable Development Goal 6 (SDG 6), which focuses on ensuring availability and sustainable management of water and sanitation for all. Here are some examples of how UTM is actively engaging with this goal. UTM is involved in research projects that address water scarcity and quality issues in Tunisia. This includes studies on sustainable water management practices and the development of technologies aimed at improving water efficiency and sanitation systems. The university incorporates topics related to water sustainability and sanitation into its academic programs. This equips students with the knowledge and skills necessary to tackle challenges associated with water resources, thereby fostering a generation of professionals who are well-versed in sustainable practices. UTM collaborates with local and international communities to promote awareness about water conservation and sanitation practices. These outreach efforts often include conferences, workshops and seminars.

1. Addressing Water Scarcity in Tunisia

Tunisia faces significant challenges related to water scarcity due to rising demand from population growth, urbanization and climate change. The new desalination plants are part of a strategic response to these challenges, aiming to reduce reliance on dwindling groundwater supplies and improve access to drinking water in arid regions.

The Zarat Desalination Plant, in Gabès, was Inaugurated on July 7, 2024. This facility is designed to produce 50,000 cubic meters of drinking water per day, with plans to double this capacity to 100,000 cubic meters by 2027. It aims to serve around one million residents across the Gabès, Médenine, and Tataouine governorates by 2035. The project was developed by the Indian company Va Tech Wabag and co-financed by the Tunisian government and the German development agency KfW.

Two additional Plants in Sfax and Sousse are under construction in Sfax and Sousse, expected to be operational by the end of 2024.

The Sfax plant will have a capacity of 100,000 cubic meters per day, while Sousse will produce 50,000 cubic meters per day. The Tunisian government plans to launch tenders for four more desalination plants in Tozeur, Kebili, Sidi Bouzid, and Ben Guerdane.

2. Mediterranean Conference on Desalination and Water Treatment

The Tunisian Desalination Association (TDA) organizes in collaboration with the University of Tunis El Manar (UTM) and the Water Research and Technology Center (CERTE) with the support of the European Desalination Society (EDS) the 9th Mediterranean Conference on Desalination and Water Treatment "CMTDE 2024", Hammamet, Tunisia, 22-25 December, 2024. This 9th edition of CMTDE 2024 dedicated to the nexus "Water-Energy-Environment" benefits from the support and follow-up of the professor Moez CHAFRA, President of the University of Tunis El Manar.



### 3. World Water Day celebration

World Water Day 2023, celebrated on March 22, focused on the theme "Accelerating Change to Solve the Water and Sanitation Crisis". The theme for World Water Day 2024 is "Water for All: Let's Take Action." This theme emphasizes the importance of ensuring access to clean and safe water for everyone and encourages individuals, communities, and organizations to take meaningful actions toward sustainable water management. Events around Tunis El Manar University highlighted the importance of water conservation, the challenges of water scarcity, and the need for sustainable management of water resources.

Webinars followed by a debate on water-related issues were organized and broadcast to a wide audience.

L'Association Tunisienne de Dessalement  
et  
Le laboratoire Dessalement et  
Traitement des Eaux (LR19E901)  
organisent

UN WATER  
22 MARS  
JOURNÉE  
MONDIALE  
DE L'EAU  
2024 L'eau pour la paix

**WEBINAIRE**  
Le 22 Mars 2024  
de 10h à 12h

**CONFÉRENCE-DÉBAT**  
Célébration de la Journée Mondiale de l'Eau 2024

Animée par  
**Professeur Béchir HAMROUNI**  
Président de l'Association Tunisienne de Dessalement

**Programme**

Première partie  
10h00-10h20: La Journée Mondiale de l'Eau : l'Eau, défi du siècle  
10h20-10h30: Débat

Deuxième partie  
11h20-11h35: Le dessalement des eaux en Tunisie et dans le Monde  
11h35-11h40: Débat

Troisième partie  
11h40-11h50: Les contributions de la TDA  
11h50-12h00: Débat

Participation gratuite  
Vous pouvez vous inscrire en suivant ce lien :  
<https://forms.gle/1L3Nw5H7CjD5Y6>

Suite à votre participation, une attestation vous sera fournie.  
Contact : [TunisDesalination@gmail.com](mailto:TunisDesalination@gmail.com)



L'Association Tunisienne de Dessalement  
et  
L'Université de Tunis El Manar  
Célébrant

UN WATER  
22 MARS  
JOURNÉE  
MONDIALE  
DE L'EAU  
2023 Accélérer le changement

**WEBINAIRE**  
10h - 12h00 | 22 Mars 2023

**Programme**

10h00-10h20 : Ouverture de la célébration de la Journée Mondiale de l'Eau 2023  
- Mot du Président de l'Université de Tunis El Manar, Prof. Moez CHAFRA  
- Mot du Président de la TDA, Prof. Béchir HAMROUNI

10h20-10h40 : Communication 1 - Objectifs de Développement Durable 6 sur l'eau et l'assainissement (ODD 6), Prof. Béchir HAMROUNI

10h40-11h00 : Communication 2 - Les projets du cycle de l'eau en Tunisie, Prof. Hassen ELFIL

11h00-11h20 : Communication 3 - Création des start-ups dans le domaine des technologies des eaux, Jawi BEN ROMDHANE, Expert en entrepreneuriat

11h20-11h40 : Communication 4 - La thématique Climat du programme cadre Horizon Europe, programme de travail 2023-2024, Dr. Ing. Chema FERSI

11h40-12h00 : Communication 5 - Transfert de technologies du laboratoire à l'industrie, Dr. Ing. Khaled BOUMAH

Participation gratuite  
Vous pouvez vous inscrire en suivant ce lien :  
<https://forms.gle/1L3Nw5H7CjD5Y6>

Suite à votre participation, une attestation vous sera fournie.



### 4. UTM collaboration with the Water and Technologies center

As part of the UTM's commitment to Sustainable Development Goals 6 and 17, a Framework Agreement for Scientific and Educational Cooperation was signed on 12 June 2024 between the University of Tunis El Manar represented by its President, Pr. Moez CHAFRA and the CERTE Water Research and Technology Centre represented by its Director General, Prof. Hakim GABTNI.

This collaboration concerns:

- Scientific and educational cooperation,
- Consultation and exchange of information,
- Joint research and university training activities (teaching and student guidance),
- Organization of scientific events and actions to achieve the SDG 6 targets.



### 5. Partnership and cooperation agreement to promote research and innovation

Vivo Energy Tunisia and ISSBAT (UTM) join forces for innovation in water resource management. A partnership and cooperation agreement between Vivo Energy Tunisie, the company that distributes and markets Shell products in Tunisia, and the Tunis Higher Institute of Applied Biological Sciences (ISSBAT) has just been signed at the Shell Cité Ettayarane station on the western outskirts of Tunis, in the presence of the President of the Université Tunis El Manar, the Director of ISSBAT, the Managing Director and executives of Vivo Energy Tunisie, as well as several research professors.



## SDG6:

The agreement aims to promote research and innovation in water resource management in Tunisia. Collaboration will initially focus on the StopUP project “Protecting the aquatic environment from urban runoff pollution”, which will propose a global approach to the treatment of polluted drainage water that poses a threat to natural receiving environments. The two partners will be working on the implementation of integrated, sustainable technologies to improve water quality and ensure optimum reuse.

A pilot plant for the treatment of overflow and run-off water will be set up at the Shell Cité Ettayarane station, close to the Sabkhet Sejoumi, to house the implementation of integrated, nature-based technologies adapted to the Tunisian context.

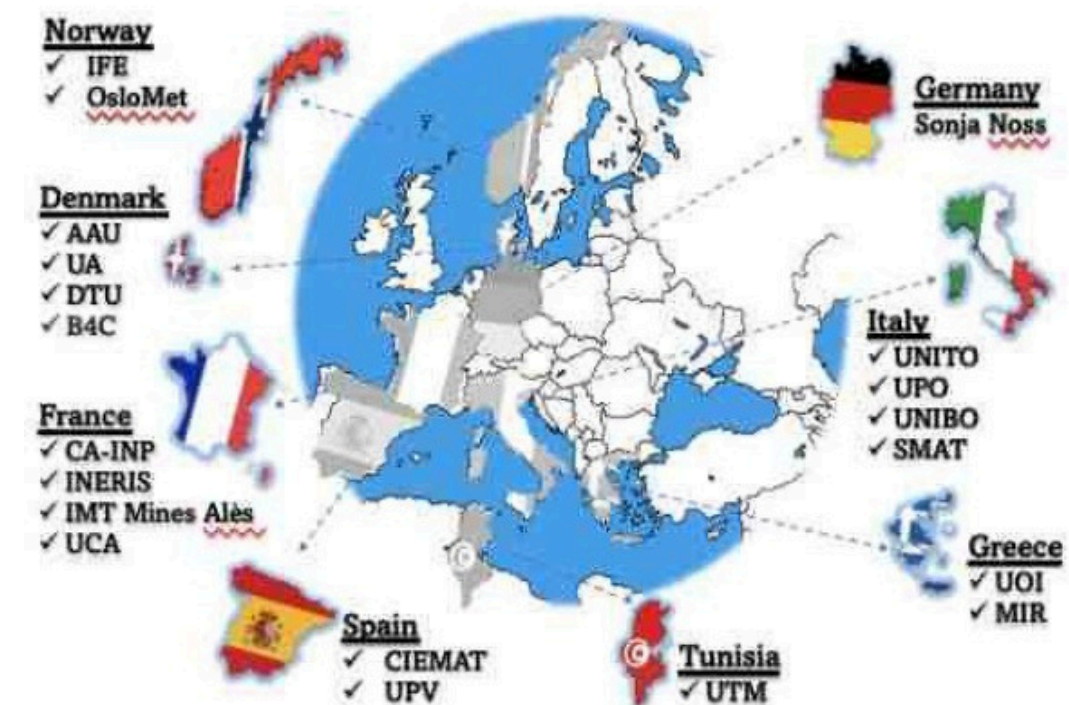


### Horizon Europe Marie Skłodowska-Curie Actions (MSCA) Doctoral Network program

Project INtegrated Approach TO secure water QUALity by exploiting Sustainable processes IN2AQUAS covers the period 2023-2027.

This project gathers experts from 10-degree awarding universities, 4 national research centers, 1 associated university (University of Tunis El Manar, “Desalination and Water Treatment” Research Laboratory LR19ES01) 4 companies and a highly qualified mindfulness-in-the-workplace facilitator. IN2AQUAS will train 15 doctoral candidates (DCs) for facing the complex challenge of envisaging the pollutant impact on the environment and of tailoring the proper treatments to produce safe and clean water -also in extreme environments- using green approaches through high quality research, training, management and innovation. This goal will be attained via a structured training-through-research program, consisting of original individual research projects and education on technical and transferable skills. The overall research goals will imply four main steps:

- The assessment of water quality and the prediction of its response towards arisen environmental stresses,
- Restore water quality while approaching the zero-waste discharge,
- Scale up and process integration,
- Nutrients recovery and wastewater reuse assessment.



Participation in the 5th Mediterranean Water Forum

UTM took part in the 5th Mediterranean Water Forum held from February 5 to 7, 2024 in Tunisia. This forum highlights various projects related to water management, and serves as a platform for knowledge exchange and collaboration between Mediterranean players.

5th MENA Desalination Projects Forum

The 5th MENA Desalination Projects Forum, which is scheduled on 5-4 March 2024 at the United Arab Emirates, is the largest government endorsed regional desalination conference. It brings together over 400 regional and international stakeholders from the government, consulting, contracting, and technology sectors to discuss the way forward for the region's desalination industry, key upcoming mega projects, and national sustainability visions driving the region's 2030 water agendas.

Water Forum

Amidst the pressing water challenges confronting the African continent, the Africa Water Forum, held on October in Rabat, Morocco, emerged as a crucial gathering point for visionary leaders across the water sector. Attracting thought leaders from diverse water sectors, the forum aimed to shed light on and address key aspects of water security through the lenses of research and development, technical expertise, and commercial perspectives.



6. Africa Water Forum

Student participation in the international innovation competition organized by the UNESCO International Water Centre of Montpellier;

- 2023: 70 teams from Europe, Africa and North America (4 Tunisian teams)
- 2024: 74 international teams (8 Tunisian teams)



Forest-Water-WellBeing" Project

UTM President Prof. Moez Chafra welcomed a Bavarian delegation on February 13, 2023 to discuss the proposals of a new project that aims to redevelop and protect university sites with the slogan "Forest-Water-WellBeing".This meeting brought together representatives of the various stakeholders at the Farhat Hached El Manar campus.

Scientific and awareness conferences

Examples of scientific and awareness-raising conferences on water given by UTM research professors to different audiences:

- Presentation of research activities in the field of water, on the occasion of the visit of an official Jordanian delegation, by Pr. AtefJAOUANI.
- Conference "How to cope with water scarcity", International symposium organized by the Research Laboratory: Maghrebien, Francophone, Comparative Studies and Cultural Mediation, July 1-3, 2023 at the Ribat of Lamta, Monastir, Pr. Béchir HAMROUNI.
- Conference "Chemistry and Materials Science to cope with Water Scarcity", The 3rd edition of the International Conference on MaterialsScience and Engineering and their impact on the environment, Djillali Liabés University in Sidi Bel-Abbès, Algeria, 29-30 May 2024, Pr. BÉCHIR HAMROUNI.



7 AFFORDABLE AND  
CLEAN ENERGY



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**CLEAN WATER AND SANITATION**



### **Research and academic activities:**

The University of Tunis El Manar (UTM) is conducting a number of research projects on clean energy production, mainly through the National Engineering School of Tunis (ENIT) and the Higher Institute of Applied Biological Sciences of Tunis (BeB, ISSBAT).

The Higher Institute of Applied Biological Sciences of Tunis (ISSBAT) is involved in a project focusing on the production of clean energy through the BIOTEC H2 International Joint Laboratory, to be launched in March 2022. The research activities of this laboratory, which brings together Tunisian (ISSBAT, INRAP and FSB) and French (MIO and TBI) researchers with multidisciplinary skills, focus on the production and storage of biohydrogen and methane from fermentable agri-food by-products. ISSBAT has an anaerobic dark fermentation platform consisting of two automated fermentation lines of 2L volume and a 10L fermenter. The aim of this project is to develop an efficient bioprocess for converting organic waste into clean energy carriers. It represents a significant step forward in the field of renewable energy.

University of Tunis El Manar, École nationale d'ingénieurs de Tunis : Chiheb Bouden (Materials, Optimisation and Energy for Sustainability Laboratory) [http://www.edsti.enit.rnu.tn/fr/structures\\_02.php?id=5](http://www.edsti.enit.rnu.tn/fr/structures_02.php?id=5).

Creation of a professional Master co-constructed in partnership with Technical University of Munich (TUM), Mediterranean Centre for Renewable Energies (MEDREC), Société Tunisienne d'Electricité et de Gaz (STEG), Agence Nationale de Maîtrise de l'Energie (ANME), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH.

A Tunisian-Bavarian hub on green hydrogen at ENIT, which aims to popularise H2 technologies, strengthen the link between the academic world and the socio-economic environment, contribute to the development of a strategic approach to promote Tunisia's position as a leader in the field of green hydrogen and the associated value chain, and explore the opportunities offered by using the country's renewable energy potential.

### **2. Photovoltaic solar stations as part of a clean energy transition program**

The University of Tunis El Manar (UTM), through institutions like the Higher Institute of Applied Biological Sciences of Tunis (ISSBAT) and the National School of Engineers of Tunis (ENIT), is advancing sustainability by participating in a transformative energy transition program. This initiative involves equipping public facilities with photovoltaic solar stations for self-sustained electricity production and implementing energy efficiency measures, enabling these institutions to lower energy consumption and reduce electricity costs. This program aligns with UTM's commitment to sustainable infrastructure and its active contribution to the Sustainable Development Goals.



**3. Student entrepreneur Hub of the University of Tunis El Manar:**

The UTM Student-Entrepreneur Hub is actively supporting the Sustainable Development Goals, especially SDG 7, by incubating projects that promote sustainable energy use. A notable project, Optinergie by EyaTouzri, provides a complete solution to optimize energy consumption through intelligent supervision. In line with SDG 7, Optinergie features real-time monitoring to detect deviations, predictive algorithms to forecast energy needs, and remote management to reduce waste. With functions like intelligent prediction, user awareness, and automated control, Optinergie empowers businesses to reduce their carbon footprint, lower energy expenses, and contribute to a sustainable energy future.



**Prof. Kamel Ben Saad, Director of the ENIT, UTM**  
**"ENIT: Pioneering Energy Efficiency and Renewable Energy Innovations at UTM"**



Since its establishment, the National Engineering School of Tunis (ENIT) has consistently been a responsible institution, recognized as a leader not only in engineering education but also in integrating society's environmental concerns into its strategic objectives. Its contributions to sustainable development issues are of paramount importance to the institution.

**Energy Efficiency Initiatives**

In this regard, ENIT has engaged in several projects to promote energy efficiency and regularly undertakes activities to raise awareness about environmental challenges.

**Energy Efficiency**

Through the MEDREC project, a photovoltaic solar power plant with a capacity of 71 kWc was installed on the roof of the Osman El Bahri Tower. Furthermore, in 2021, ENIT joined the Energy Transition in Public Institutions (TEEP) project by the National Agency for Energy Conservation (ANME). As part of this initiative, 146 kWc of solar panels were installed on the fourth level of the school in 2024.

These two installations collectively cover approximately 48% of ENIT's electricity needs.

Under the TEEP project, plans are underway to replace:  
All halogen bulbs and fluorescent tubes with LED technology equivalents.  
Old air conditioners with energy-efficient class 1 models.

## SDG6:

### Raising Awareness of Environmental Issues

To raise awareness among its students, faculty, and staff about environmental issues, ENIT organizes annual action days that have become traditions, such as:

- LABEL ENIT: A day dedicated to education and awareness on the theme of aesthetics and cleanliness at ENIT and its surroundings.
- GreENIT: A day focused on raising awareness of the importance of trees and their role in the environment.


These initiatives reflect ENIT's commitment to fostering an environmentally responsible community and promoting sustainable practices.







**8** DECENT WORK AND  
ECONOMIC GROWTH



**IMPACT**



**PRIORITY**



**PARTNERS**



**COMMUNITY**

**DECENT WORK AND ECONOMIC GROWTH**



SDG 8:



Mrs Dorra Ammar,  
UTM,SDG 8 (Decent  
work) Ambassador



Dr. Nejiba Elyetim, UTM,  
SDG 8 (Economic  
Growth) Ambassador

1. Administrative staff Events

Staff The involvement of UTM administrative and support staff in university events and ceremonies plays a vital role in fostering a sense of belonging and community. Their active participation not only contributes to the success of these events but also positively impacts their overall well-being. Engaging in such activities allows staff members to connect with colleagues, celebrate shared achievements, and feel valued as integral members of the university. This sense of inclusion enhances morale, reduces workplace stress, and strengthens the bond between staff and the broader UTM community.





2. Periodic Staff Development Sessions

The administrative staff regularly participate in periodic staff development sessions, where they have the opportunity to explore new tools and practices that enhance their professional skills. One such initiative involved engaging with the new university management software, where staff members participated in discussions, shared insights, and practiced its usability. These development sessions promote knowledge exchange and ensure that the staff remains up-to-date with the latest technology, improving both their efficiency and confidence in their roles. This ongoing commitment to professional growth helps foster a collaborative and supportive work environment, benefiting both individual staff members and the broader university community.



3. Staff Trips and Entertainment

The UTM Employee Association organized a delightful trip to the beautiful Sidi Ali El Makki beach, offering staff members and their families an opportunity to unwind and enjoy a day full of joy, fun, and togetherness. The event was characterized by a warm and friendly atmosphere, where participants bonded over shared activities and experiences. Families joined in, adding a sense of community and inclusivity to the gathering. Everyone was caring and supportive, creating an environment of mutual respect and enjoyment. The day was filled with laughter, meaningful conversations, and memorable moments, reflecting the strong spirit of solidarity and camaraderie among the UTM staff and their loved ones.



4. Financial Assistance

Financial assistance is distributed to eligible non-academic staff through the UTM employee association for non academic staff during festive times, including Eid al-Fitr, Eid al-Adha, and the Back-to-School season. This assistance is provided to active employees in central or regional offices, public institutions linked to the state budget, and local authorities. However, it excludes those on long-term sick leave, secondment, or holding functional positions, as well as employees in sub-categories A1 and A2 assigned to specific roles. This ensures that financial aid reaches non-academic staff who are most eligible based on their administrative and professional status.

SDG 8:

At the University of Tunis El Manar (UTM), various initiatives have been implemented to promote decent work. Notably:

Professional Development Workshops:

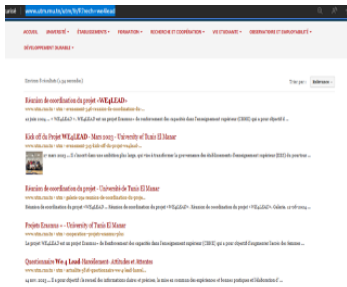
Several workshops and training sessions have been organized for academic and administrative staff on topics such as stress management, work-life balance, and leadership skills. Within the framework of the quality support project, numerous training sessions aimed at skill development for staff, teachers, and students were held. Additional training was also conducted in collaboration with NGOs and key stakeholders in UTM's ecosystem.

Erasmus+ “WE4LEAD” Project:

As part of the Erasmus+ “WE4LEAD” project, a strict policy against discrimination and harassment is being implemented, with a particular focus on sexual harassment. This policy includes clear mechanisms for reporting and addressing complaints. The project was officially launched in December 2023 during the WE4LEAD launch conference organized by the University of Tunis El Manar.

Integration Days

Most UTM institutions organize integration days, along with a university-wide event, to improve the integration of new students from Tunisia and other countries into university life. These activities aim to foster inclusivity and a sense of belonging among the student community.



Second Edition of “UTM: Beacon of Cultures”

The second edition of this event further highlighted the university's commitment to intercultural dialogue and the celebration of diversity within its academic and social environment.

To foster a positive dynamic among its members through mutual support, camaraderie, and the organization of collective events, the University of Tunis El Manar (UTM) has established several associations at both institutional and university levels. Within this framework, various activities have been undertaken, such as:

Mutual Support Initiatives: Offering support during significant life events or periods of difficulty.  
Social Events: Organizing social gatherings and activities to strengthen relationships among members and build a sense of community.

- Cultural, Sports, and Recreational Activities: Providing opportunities for members to participate in outings, workshops, sports competitions, and other activities that foster connections and promote well-being.
- Solidarity and Awareness Actions: Engaging in initiatives that contribute to community well-being, solidarity, and awareness campaigns.
- Development Opportunities: Hosting training sessions, conferences, and other development opportunities for members.

Mediation Committee

UTM has also established a mediation committee aimed at facilitating peaceful conflict resolution by offering a neutral space for constructive dialogue. The committee helps parties find mutually acceptable solutions while ensuring confidentiality and reducing the burden on the courts.





Mentorship Programs

Several mentorship programs have been established to support the professional development of young academics. Among the most notable is the program by INJAZ Tunisia, implemented as part of their flagship initiative, the Company Program.

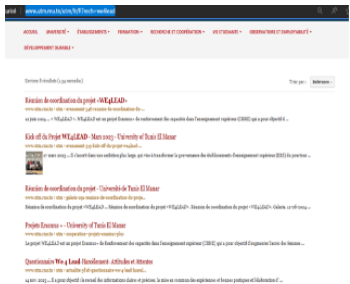
Evaluation and Improvement

- Employee Satisfaction Surveys:
- As part of the implementation of the SMOE (System for Operational Management and Evaluation), satisfaction surveys are conducted to assess the level of satisfaction among administrative staff, faculty, and students. These surveys aim to identify areas for improvement and ensure better working and learning conditions.
- Regular Internal Audits:
- Regular internal audits are performed to ensure that work practices comply with decent work standards and to identify opportunities for further enhancements.

Social Responsibility Initiatives (CSR)

As part of its CSR strategy, the University of Tunis El Manar (UTM) and its institutions actively encourage the participation of employees and students in community projects and social responsibility initiatives.

Several environmental initiatives have been launched across various UTM institutions. Notably, the Higher Institute of Medical Technologies of Tunis (ISTMT) has begun implementing CSR practices with the goal of obtaining the CSR label. These efforts reflect UTM's commitment to sustainability and its broader social responsibility objectives.



Medical and Psychological Support

Psychological Support:

The University of Tunis El Manar (UTM) has made psychologists available to both staff and students to assist in managing stress and addressing personal or professional issues.

University Medical Center "Tawhida Ben Cheikh":

UTM has established the "Tawhida Ben Cheikh" University Medical Center for the students, academic staff, and administrative personnel at the Farhat Hached University Campus of El Manar. The center provides healthcare services through a team of health professionals, including general practitioners, dentists, psychologists, and midwives. This initiative aims to ensure comprehensive healthcare and well-being for the university community.

Support for Research, Innovation, and Mobility

- The University of Tunis El Manar (UTM) has several projects focused on funding innovation and mobility, particularly through Erasmus+ programs. These initiatives aim to foster research, collaboration, and global engagement.
- Funding for Research and Innovation:
- UTM offers funding and scholarships to encourage research and innovation among students and academic staff. These initiatives support the development of new ideas, projects, and collaborations that contribute to academic and scientific advancement.
- Mobility Scholarships:
- UTM provides mobility scholarships for students, faculty, and administrative staff, enabling them to gain international experience, participate in exchange programs, and enhance their academic and professional growth.



SDG 8:

Startup Incubators

A startup incubator has been established to support the entrepreneurial initiatives of students and researchers at the University of Tunis El Manar (UTM).

The Pôle de l'Étudiant Entrepreneur de l'Université de Tunis El Manar (P2EUTM) provides resources, mentoring, and networking opportunities for aspiring entrepreneurs to help turn their innovative ideas into successful ventures.



Entrepreneurship Competitions

To enhance students' entrepreneurial skills and improve their professional integration, several entrepreneurship competitions have been organized across various UTM institutions. These competitions aim to foster creativity, problem-solving, and business acumen, preparing students for a successful career in the entrepreneurial ecosystem.







9 INDUSTRY, INNOVATION  
AND INFRASTRUCTURE



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**INDUSTRY, INNOVATION AND  
INFRASTRUCTURE**



Transforming our **relationship** with nature  
is key to a **sustainable future**



Pr. Nesrine Zoghlami,  
UTM,SDG 9 Ambassador

**Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.**

**TARGETS:**

- Develop sustainable, resilient and inclusive infrastructures.
- Promote inclusive and sustainable industrialization.
- Increase access to financial services and markets.
- Upgrade all industries and infrastructures for sustainability.
- Enhance research and upgrade industrial technologies.
- Facilitate sustainable infrastructure development for developing countries
- Support domestic technology development and industrial diversification.
- Universal access to information and communications technology.

**The 40th edition of the Arab International Conference**

The 40th edition of the Arab International Conference on the theme "Digital Transformation in Admission and Registration Services" was held from December 18 to 20, 2023, at Carthage Thalasso, Cité El Khadra, Tunisia. Organized by the University of Tunis El Manar in partnership with the Arab Organization for Admission Officials.

The program included an opening session and six working sessions focusing on topics such as:

- The importance of internal auditing in admission services to protect against fraud.
- The professional skills of staff and their adaptation to digital changes.

- The use of artificial intelligence and virtual reality in academic guidance.
- Challenges faced by international students and the recognition of their qualifications.
- The management of students' digital data and issues related to displaced students.
- The development of quality standards for admission services.  
[https://www.mes.tn/detail\\_evennement.php](https://www.mes.tn/detail_evennement.php)  
code\_menu=548&code\_evennement=3937





## SDG 9:

### 2. 22nd session of the University Council

Under the supervision of Professor Moez Chafra, the 22nd session of the University Council for the term 2020-2023 was held on December 15, 2023, to discuss the following matters:



- Presentation of the information system
- Research ethics at the University of Tunis El Manar and its institutions
- U-Accelerator platform for innovation and technology transfer.

### 3. Info Sessions: December 2 and 6, 2023

The Student Entrepreneur Center (P2E) of the University of Tunis El Manar successfully hosted two info sessions:

- On Saturday, December 2, 2023, at ISSBAT
- On Wednesday, December 6, 2023, at FSEGT
- On October 25, 2023, at ENIT

The info sessions successfully achieved their objectives by introducing participants to the Student Entrepreneur Center (P2E) and the National Student Entrepreneur Status (SNEE), detailing its levels, benefits, and eligibility criteria. Key steps and timelines for joining the first cohort of student entrepreneurs were also outlined, ensuring attendees were well-informed about the process. Additionally, UTM alumni entrepreneurs enriched the sessions by pitching their projects and sharing their success stories. Their insights and strategies provided valuable inspiration, motivating participants to turn their entrepreneurial ideas into reality.



### 4. INITIATION TO PROJECT DEVELOPMENT

The National Agency Erasmus+ Tunisia, in collaboration with the universities of Greater Tunis, including University of Tunis El Manar, Zaitouna University, University of Tunis, University of Carthage, University of Manouba, and Virtual University of Tunis (UVT), along with the General Directorate of Technological Studies, is organizing an information and training session on Erasmus+ in higher education titled "Introduction to Project Development." » This session aims to encourage innovation and collaboration among higher education institutions while enhancing the capacities of the stakeholders involved.

Link: <https://erasmusplus.tn/doc/Newsletters/Decembre-2023.pdf>



5. 25th Edition of the ENIT Business Forum

ENIT, University of Tunis El Manar , is organizing the 25th edition of its business forum on November 22, 2023, under the theme: "Engineering Innovation Hub."

This edition encourages discussions on:

- The role of innovation in creating economic champions in the country.
- The talents, skills, and engineering careers necessary for successful innovation.
- Current fields of innovation: Technology, Sustainability, and Business Models.

[https://www.linkedin.com/posts/enit\\_25e-édition-du-forum-enit-entreprise-activity-7132814495810248704-fzQn/](https://www.linkedin.com/posts/enit_25e-édition-du-forum-enit-entreprise-activity-7132814495810248704-fzQn/)



6. RECOGNITION UNDER THE "AFRIDI" PROJECT

On November 17, 2023, Professor Moez Chafra, President of the University of Tunis El Manar, presided over a welcoming event for new students awarded scholarships for the 2023-2024 academic year. During this occasion, he praised the efforts of the project team, including faculty, administrative staff, and students, who were all presented with certificates of appreciation. The "AFRIDI" project, which stands for "Projet d'Appui à la Formation, à la Recherche et à l'Innovation pour le Développement Intra-Afrique," aims to support training, research, and innovation for sustainable development among African countries by aligning educational systems and developing the essential skills and expertise of master's and doctoral students.



7. UTM and AUF Partnership to Support the New Student Entrepreneur Center

As part of the preparations for launching the Student Entrepreneur Center at the University of Tunis El Manar (UTM), a partnership agreement was signed on April 19, 2023. The agreement formalizes the collaboration between UTM, represented by its President, Mr. Moez Chafra, and AUF, represented by Mr. Mejdi Ayari, Senior Project Manager.

UTM proudly welcomes this new partnership, which will strengthen support for entrepreneurial initiatives by providing students with opportunities to benefit from the advantages of the student-entrepreneur status.





**8. Award Ceremony for UTM-Innov Winners**

The award ceremony for the UTM-Innov winners took place on September 6, 2023. UTM-Innov is part of the PAQGAGE project, funded by Promesse and the Ministry of Higher Education and Scientific Research, in partnership with the BIAT Foundation for Youth, Connect'Innov, and the Tunis International Center for Digital Cultural Economy, as well as the Caisse des Dépôts et Consignations Tunisia.



**9. STUDENT TODAY, ENTREPRENEUR TOMORROW**

On June 5, 2023, the 4C ISSBAT , University of Tunis El Manar, in partnership with PAQ GREEN and INJAZ TUNISIE, organized the "Student Today, Entrepreneur Tomorrow" day at ISSBAT.

Nine project teams presented their social initiatives in front of a jury as part of the third edition of INJAZ TUNISIE's flagship program, the "Company Program," aiming to qualify for the final competition. Additionally, the event showcased small businesses established by ISSBAT students and graduates through a local fair.



**10. Training of Trainers :**

Training of Trainers for the benefit of the Student Entrepreneur Center (P2U-UTM) Referents at the University of Tunis El Manar: A Step Toward Universal Access to Information and Communications Technology.

In collaboration with our partner ENDA Inter-Arabe, the referents of the P2E-UTM participated in a training program focused on the methodology for supporting startups. This initiative aligns with the broader goal of promoting universal access to information and communications technology by equipping educators and mentors with the tools to foster innovation and entrepreneurial skills.



SDG 9:



11. Rooftop PV Power Plant

Rooftop PV Power Plant Installed at the National School of Engineers of Tunis as part of the MedEcoSuRe project, this power plant has an installed capacity of 71 kWp and will cover 8% of the school's total electricity consumption. it contributes to develop Sustainable, Resilient, and Inclusive Infrastructures.



12. Participation in the 14th Edition of INJAZ Tunisia's National Competition « Les Entrepreneurs de Demain »

The Supclay team from the Civil Engineering program, ENIT, UTM, won the award for Best Young Company and represented Tunisia at the regional competition held in November in Qatar. Additionally, the Mulchair team from the Industrial Engineering program secured the 2nd prize for Best Innovation.



13. 6th Edition of the Doctoral Students' Day (JDD 2023)

The 6th Edition of the Doctoral Students' Day took place on May 3, 2023, at ENIT, UTM. The event focused on the contribution of scientific research to strengthening business activities, specifically in the mobility and transportation industry, addressing the challenges posed by the energy transition.

The day was organized in partnership with GIZ Tunisia and supported by Safran Tunisia.






**Journée des Doctorants – ENIT**  
**Mercredi 3 Mai 2023 – Amphî ANNABI**



- 8h30 — **Accueil des participants**
- 9h00 — **Mots d'ouverture**  
Pr. Kamel Ben Spad, Directeur de l'ENIT,  
Pr. Moez Choufi, Président de l'UTM,  
M. Felix Sörensen, Chef de projet partenariats pour l'emploi et l'appui aux petites et moyennes entreprises en Tunisie, IZT Tunisie.
- 9h15–9h45 — **Le pôle recherche au Ministère de l'Enseignement Supérieur et de la Recherche Scientifique : Les Orientations Stratégiques**  
Pr. Mourad Belarbi, Directeur Général de la Recherche Scientifique au MESRS.
- 09h45–10h45 — **Panel : Mobilité intelligente et Durable**  
Modérateur : Pr. Chihab Douchin, ENIT,  
Thème : Présenter des exemples de sujets de recherche scientifique traités au niveau international, répondant à la problématique de la transition énergétique (énergies renouvelables, empreinte carbone, etc.) pour l'industrie de la mobilité et de transport.  
Intervenants :  
Projet de développement d'un bateau solaire, Dr. Moss Jernard, SHOT, Norvège.  
Développement de voiture électrique en Tunisie, M. Lassaad Mrobel, Hellen Cars.  
Hydrogène Vert, Pr. Didier Dalmazzone, CNRS, Paris.  
Représentants de Telenet.  
Représentants de la STIG.
- 10h45–11h15 — **Pause-café**
- 11h15–12h15 — **Panel : Recherche et développement pour l'industrie de la mobilité et de Transport en Tunisie : défis et opportunités**  
Modérateur : Pr. Kamel Madjel, ENIT  
Objectifs : Identifier les besoins de l'industrie de la mobilité en Tunisie en termes de recherche et développement et engager de potentielles collaborations avec les laboratoires de l'ENIT pour traiter des sujets de recherche d'intérêt communs.  
Intervenants :  
M. Redouane Hammi, Directeur des opérations de Safran AEROSYSTEMS Tunisie.  
Dr. Joud Ben-Khalil, CEO & MD North Africa, Nissan automobile Group.  
M. Mohamed Badier Bougratlas, IT Regional Manager Africa & IT Center Director, DRACMAIR Tunisie.  
M. Mohamed Elmi, Directeur Général du centre technologique Krenberg & Schubert, Tunis.  
Mme. Mariem Megi, Directrice de la Tunisian Automotive Management Academy, Tunisian Automotive Association.
- 12h15–12h30 — **Pause déjeuner**
- 12h30–14h30 — **Compétition - Ma thèse en 180 s**
- 14h30–15h30 — **Compétition - Mon sujet de thèse en 3 Slides**
- 15h00 — **Annnonce des résultats des compétitions et distribution des prix**
- 16h30 — **Clôture de la JDD**



**L'INDUSTRIE TUNISIENNE**  
**de mobilité face aux impératifs**  
**de la transition énergétique**

**JOURNÉE DES DOCTORANTS**  
**6<sup>e</sup> ÉDITION**

**TABLES RONDES**  
**CONCOURS**  
**MA THÈSE EN 3 MINUTES**  
**MA THÈSE EN 3 SLIDES**



**"Université - Entreprise"**  
**vers une recherche collaborative et innovante**

Scannez moi



Pour plus d'informations  
[jdd@enit.utm.tn](mailto:jdd@enit.utm.tn)

ENIT, AMPHI ANNABI  
Le Mercredi 3 mai 2023



SDG 9:

14. Inno'Green

The 2nd edition of the Inno'Green competition for the best innovative and entrepreneurial initiatives was organized by IPEIEM on May 18, 2023, as part of the PAQ-DEFI project.



15. The Opening of a New Collaborative Workspace at IPEIEM, UTM: "IPEIEM Coworking Space"

January 1, 2024, the opening of the "IPEIEM Coworking Space" at IPEIEM, UTM, aligns with several of the targets:

- 1. Develop Sustainable, Resilient and Inclusive Infrastructures.
- 2. Promote Inclusive and Sustainable Industrialization.
- 3. Enhance Research and Upgrade Industrial Technologies.
- 4. Universal Access to Information and Communications Technology: It provides access to modern technology and resources, promoting digital inclusion.







**10** REDUCED INEQUALITIES



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**INDUSTRY, INNOVATION AND  
INFRASTRUCTURE**

## Transforming our **relationship** with nature is key to a **sustainable future**



Pr. Fadyla Darragi,  
UTM, SDG 10 Ambassador

The University of Tunis El Manar (UTM), under the leadership of Vice President Prof. Fadila Darragi and her team, has launched the Inclusive University project, aiming to create an inclusive learning environment and strengthen diversity, inclusion, and anti-discrimination policies at all levels. As part of this initiative, several dedicated structures have been established, including the Inclusion and Diversity Office, led by Mrs. Aicha Maui, and the Learning Difficulties and Disabilities Office, directed by Mrs. Imen Ellousi.

These efforts are supported by the Communication and Media Department, headed by Mrs. Ahlem Turki, which works alongside other departments to promote inclusion through media coverage and awareness campaigns. UTM is also a national pioneer, being the only university in Tunisia to offer two academic programs tailored for students with learning difficulties: a Bachelor's degree in Physiotherapy for visually impaired students, taught by faculty members including visually impaired and blind professors at the Higher School of Health Sciences and Technologies of Tunis, and a Bachelor's degree in Sign Language at the Higher Institute of Human Sciences of Tunis, emphasizing Sign Language as a tool for inclusion. These initiatives demonstrate the university's commitment to fostering equity and diversity across all its structures and programs.



### 1. UTM WITHOUT OBSTACLES

The UTM Without Obstacle Festival aims to promote the integration of students with learning difficulties and disabilities. This inclusive event features a sports festival specifically for students with disabilities, providing them with an opportunity to participate in athletic activities in an accessible and supportive environment. In addition to sports, the festival includes a range of cultural and knowledge exchange activities designed to foster interaction and learning among all students. The event brings together a variety of NGOs and both national and international stakeholders, working collaboratively to ensure the festival's success and further the university's commitment to inclusivity and diversity. Through this initiative, UTM demonstrates its dedication to creating an environment where all students, regardless of their abilities, can thrive and contribute to the university community.





Transforming our **relationship** with nature  
is key to a **sustainable future**

2. The UTM Handi Kathon Competition

The UTM Handi Kathon Competition aims to prepare students with disabilities and learning difficulties for entrepreneurship by encouraging them to innovate and think creatively. The competition provides a platform for students to present and develop impactful projects, including apps and IoT devices specifically designed for users with disabilities. Notable projects included smart glasses for blind people and other innovative solutions tailored to enhance accessibility and independence. The selection jury, composed of experts from socio-economic and industrial sectors, evaluated the projects for their potential impact. The UTM Hub for Student Entrepreneurship, led by Dr. Mount Marrakchi, also played a crucial role in supporting and mentoring participants throughout the competition. This initiative highlights UTM's commitment to empowering students with disabilities, fostering entrepreneurship, and promoting inclusive innovation.



2. International Students Integration

The International Students Integration and Music Festivals at the University of Tunis El Manar (UTM) celebrate the artistic talents of students while fostering inclusion and dialogue. These annual events, held during the UTM International and Regional Student Integration Program, highlight the creative expressions of students through performances, exhibitions, and music, showcasing their artistic skills and diverse cultural heritage.

As part of its commitment to inclusion, UTM actively values the student voice by involving them in decision-making processes and organizing dedicated meetings with international students, particularly those from Sub-Saharan Africa. These meetings address migrant-related challenges and provide a platform for students to share their perspectives. Such initiatives are integral to UTM's Migrants Projects and other university activities, demonstrating its dedication to supporting international students and promoting cultural exchange. Through these efforts, UTM reinforces its role as a welcoming and inclusive academic institution.





## Transforming our **relationship** with nature is key to a **sustainable future**

### 4. UTM Beacon of Cultures and Diversity

The UTM Culture and Diversity Beacon Festival is an annual event celebrating tolerance, inclusivity, and cultural diversity within the University of Tunis El Manar community. It brings together students, staff, and faculty from various backgrounds, including participants from different continents, to share experiences and explore global traditions. The festival features exhibitions of traditional products, books, magazines, and foods, as well as a vibrant fashion show showcasing traditional attire from diverse cultures. By celebrating the rich heritage of participants from Africa, Europe, Asia, and beyond, the event fosters connection, mutual respect, and a deeper appreciation for cultural diversity, reinforcing UTM's commitment to inclusivity and unity.



### 5. Migrants Project

The Migrant Project, in which the University of Tunis El Manar (UTM) is actively involved, plays a key role in supporting international student integration and addressing the concerns and challenges faced by migrants. As part of this initiative, the university provides platforms to listen to migrant students' issues, fostering an inclusive environment where their voices are heard and valued. Additionally, UTM offers a dedicated International Master's Program in Migration Studies, designed to equip students with the knowledge and skills to address migration-related topics effectively. This program underscores the university's commitment to academic excellence and its proactive approach to promoting inclusivity, cultural understanding, and support for migrant communities.



### 6. DIGITAFRICA Projects

The Digit Africa Project, coordinated by the University of Tunis El Manar (UTM) with technical support from the University of Côte d'Azur in Nice, is a collaborative initiative aimed at advancing digitalization in African higher education. This partnership involves African and European universities working together to enhance digital skills and infrastructure across the continent.

The project has several key objectives, including fostering virtual student exchanges to promote knowledge sharing and interaction among students from different African countries. It also encourages collaboration on mini-challenges related to digital transformation, enabling participants to develop innovative solutions to real-world problems. Through these activities, Digit Africa not only strengthens academic cooperation but also equips students with essential digital competencies, preparing them to drive progress in their respective communities.





Transforming our **relationship** with nature  
is key to a **sustainable future**

### 7. AFRIDI Project

The AFRIDI Project promotes research collaboration within Africa by offering exchange scholarships to students. This initiative aims to enhance academic mobility, foster cross-cultural exchanges, and strengthen research networks across African universities. By providing scholarships, the project enables students to gain valuable international experience, collaborate with peers from different regions, and contribute to the advancement of knowledge in various fields. The AFRIDI Project serves as a vital platform for empowering African students and researchers, supporting the growth of research excellence across the continent.



### 8. ISTMT BIG SNACK

The Big Snack Event is organized annually at the Higher Institute of Medical Technology of Tunis and serves as a celebration of Tunisia's rich culinary traditions. The event encourages students from different regions of Tunisia to bring their traditional dishes to share with their peers, creating a unique opportunity to explore and appreciate diverse cooking customs.

The exhibition features a variety of traditional foods, including breakfast dishes, scubas, Rafissa, Mlaoui Bread, and olive oil from different regions, each with its own distinct flavor. Additionally, students showcase honey, cakes and sweets, fruits from local markets, and many other Tunisian culinary delights. The event not only highlights the country's food culture but also fosters community engagement and a deeper understanding of regional differences through the shared experience of food.

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**9. UTM Diversity and Antidiscrimination policy**

The Sustainability Impact Team, led by Dr. Hanene Boussi and the main governance team led by the university president Professor Moez Chafra have developed the UTM Sustainability and Governance Framework, which includes comprehensive diversity and sustainability policies. These policies are designed to ensure that the university remains committed to environmental sustainability, social responsibility, and inclusivity. The framework is continuously reevaluated and revised by the leads of various sustainability projects, including Erasmus+ projects and the Inclusive University Project, to adapt to evolving needs and challenges. Through these ongoing revisions, UTM ensures that its sustainability and governance efforts remain dynamic, effective, and aligned with global best practices.





11 SUSTAINABLE CITIES  
AND COMMUNITIES



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**SUSTAINABLE CITIES  
AND COMMUNITIES**



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Pr. Jamel Neji,  
UTM, SDG 11 Ambassador

The Tunis El Manar University: A city that wants to be sustainable in a city that we want to be sustainable.  
Med-Eco Su Re Project: A summer school on Micro-Grid energy systems in Tunisia. June 20 to 23, 2023



Tunis El Manar University with Electrical Systems Laboratory (L.S.E.) has organized a summer school at the National Engineering School of Tunis, partner of Med-EcoSuRe.

The summer school, untitled "Micro-Grids 2023: Technical and economic modeling and Benefit from real time with OPAL-RT", has been organized over four days including a 2-day workshop dedicated to young researchers on real-time simulation and the Controller Hardware-in-the-Loop approach.  
Micro-Grid energy units installed at ENIT is the object of the summer of the school, among which is SMARTNESS (Smart Micro-grid plATfoRmwiThaN Energy management SyStem) which is a Micro-Grid platform powered by PV solar panels and which enables the generation of decentralized renewable energy, the investigation of new concepts such as Energy Management systems, Blockchain technology and the VPP (Virtual Power plant).





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1. **Med-EcoSuRe Project (closed on December 2023).**  
**Mediterranean University as Catalyst for Eco-Sustainable Renovation.**

The project allows Mediterranean university building managers and then, in the mid-term, public building managers, to tap into a wide array of proven technologies, policies, and financing mechanisms to improve energy efficiency and capture cost-effective energy savings in buildings. Med-EcoSuRe will also create job and business opportunities related to the installation and maintenance of energy efficiency equipment in buildings, as well as local manufacturing and marketing of energy-efficient construction materials.

Low energy educational buildings are becoming the standard for new buildings in European and Mediterranean countries. Technical solutions are continuously developed by universities for eco-sustainable building renovation, but there is still a gap between designed models and their actual application. This is due to several barriers, such as the insufficient collaboration between key actors and the lack of efficient suitable tools from the public sector to develop solutions. The Med-EcoSuRe project offers an innovative approach to the definition and diffusion of cost-effective energy renovation within university buildings, with the perspective of extending results to the whole public buildings sector in the long term.

A Mediterranean cross-border living lab - bringing together researchers, building managers, companies, public organisations and students - will be established to develop energy efficiency and renewable energy solutions as well as retrofitting schemes to be implemented in 9 university buildings. The final aim behind the project is to turn university managers into active players contributing to the co-creation and experimentation of emerging ideas, breakthrough scenarios and innovative concepts



2. **Smart transportation Week: from 15 to 18 January 2024**

Tunis El Manar University with National school of engineers of Tunis, Tunis Rapid Rail Network Company (RFR), Helios Tunisia (BYD) and National Road Safety Observatory, has organised an opening week: “Smart Transportation” at National school of engineers of Tunis from 15 to 18 January 2024.

The themes covered are:

Transport, Energy and Electrical vehicles, « E-mobilité », Scientific research for the benefit of road safety and mobility, Involvement of startups and the private sector, New technologies in the urban rapid rail network (RFR).





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### 3. Conference on “Stabilized Compressed Earth Block” with Satprem Maïni February 14, 2024

Tunis El Manar University with National school of engineers of Tunis and GDA Sidi Amor association has organised a conference day on : “Stabilized Compressed Earth Block - Durability - Stability - Seismic Resistance - Arched Structures».





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4. Workshop: Austrian- Tunisian collaboration in Asphalt and Pavement technologies and research, September 16, 2024

Tunis El Manar University with National school of engineers, TU WIEN, BAU &Umwelt\_transport, Austrian Agency for Education and Internationalization, has organised a PaveTech workshop.

The themes covered during this day are:

Fate of Polymers in Recycled Asphalt: A Multiscale Approach, Urban Heat Island Mitigation through Cool Pavement Technologies, Development of an Experimental Approach to Study the Behaviour of Multi-Recycled Asphalt Mixtures: Methodology and Preliminary Results, Analysis of new deflection basin indices for the assessment of falling weight deflectometer measurements on asphalt pavements, Determining the distribution of the present value of total cost for different pavement alternatives using Monte Carlo simulation, METAsphalt – Measures to reduce environmental impacts and energy consumption of asphalt mixtures, Inverted Pavement, Chemo-mechanical analysis of bituminous materials, Performance based specifications, The Sponge City Principle in Austria, Q&A Studying in Austria + Collaboration with TU Wien.





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"Before the Flood" by filmmaker Leonardo Di Caprio



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5. Global Sustainable Investment Policy

The University of Tunis El Manar has adopted a comprehensive sustainable investment policy, which integrates sustainability and social responsibility as part of its transition to EPST.

The policy includes six key types of sustainable investment, aimed at achieving a positive environmental and social impact while ensuring long-term financial returns. Socially responsible investment (SRI), which involves taking social and ethical criteria into account in investment decisions, is at the heart of this policy. The university avoids controversial activities and seeks to invest in companies with a positive social impact and ethical practices. ESG integration supports sustainability commitments by evaluating companies based on their environmental, social and governance practices, and favoring those that demonstrate good ESG performance. Impact investing allows the university to create meaningful change by investing in projects with measurable social and environmental benefits, including renewable energy, access to clean water and affordable housing initiatives. Alignment with the Sustainable Development Goals (SDGs) prioritizes investments in projects and businesses that align with the United Nations' global sustainable development goals, including poverty reduction, climate change mitigation, and gender equality. Investments in community development focus on local impact, supporting the economic development and well-being of communities in Tunisia.



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12 RESPONSIBLE CONSUMPTION AND PRODUCTION



IMPACT



PRIORITY



PARTNERS



COMMUNITY

**RESPONSIBLE CONSUMPTION AND PRODUCTION**



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Pr. Monia Najjar,  
UTM, SDG 12 Ambassador

Pr. Monia Najjar professor and VP in charge of international cooperation and strategic orientations at the University of Tunis El Manar, Higher institute of computer science and head of research team in the domain of optical communication.

In 2023, the University of Tunis El Manar (UTM) engaged in significant renewable energy and sustainability initiatives. One of its standout projects is the development of green hydrogen in collaboration with German institutions, particularly within a Tunisian-Bavarian partnership. This initiative leverages Tunisia's abundant solar and wind resources to produce green hydrogen, an innovative and eco-friendly energy carrier. With expertise in chemical engineering and renewable energy, UTM leads research efforts aiming to lower greenhouse gas emissions and enhance Tunisia's energy security.

Furthermore, UTM has been recognized globally for its commitment to quality education and sustainable development, enhancing its academic influence and attractiveness to international partners and students in these strategic areas. These initiatives reflect UTM's mission to address energy and environmental challenges through innovative solutions while strengthening its global collaborations for a sustainable future.

The RESMYLE project focuses on educational resources for waste and paper valorization. It aims to enhance environmental awareness and promote sustainable practices among youth in the Mediterranean region. Key activities include the development of engaging, cost-effective educational materials to facilitate learning about waste management and recycling. The project also emphasizes creating practical schools for sustainable development, encouraging hands-on experiences that prepare students for future employment in eco-friendly sectors.



Mediterranean University as Catalyst for Eco-Sustainable Renovation



Med-EcoSuRe (Mediterranean University as Catalyst for Eco-Sustainable Renovation) is a project funded by the European Union, under the ENI CBC MED programme. The programme is managed by the Autonomous Region of Sardinia (Italy) and aims to promote cross-border cooperation in the Mediterranean region.

Start date: 1<sup>st</sup> of September 2019  
Duration: three years  
Total project Budget: 2.934.856, 69 €

Jour : 24 novembre 2023  
Conference : Digital Engineering for Smarter Energy Systems  
November 30, 2023 at 14h – ENIT  
Amphitheater: Mokhtar LAATIRI

**Digital Engineering for Smarter Energy Systems**  
Mr. Michael Short  
Professor of Control Engineering and Systems Informatics

Conference : Reduction of Lower Side-tone Problems in Pulse Width Modulation System  
November 30, 2023 at 10:30 – ENIT  
Amphitheater: Mokhtar LAATIRI

**Reduction of Lower Side-tone Problems in Pulse Width Modulation System**  
Prof. Amer Ragab ZEREK (IEEE senior Member)  
Prof. in Electrical and Electronic Engineering Department  
Faculty of Engineering - Zeneia University, Zeneia, Libya  
E-mail : profzerekg@gmail.com, a.zerekg@zu.edu.ly

Seminar on "Rapid prototyping based on embedded solutions"  
**Amphi Mokhtar Laatiri**

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### School on Solid Waste Management

In March 2023, UTM participated in the Heinrich BöllStiftung's Summer School, which focused on solid waste management in the MENA region. The program included workshops on the principles of a zero-waste approach and discussions about the impacts of plastic waste. Participants explored community-based waste management strategies and were encouraged to develop interdisciplinary approaches to waste governance. Transparent Menu Labeling: UTM's dining services ensure menu transparency by providing a detailed list of ingredients for each meal. This initiative allows students, faculty, and staff to make informed dietary choices and promotes a culture of conscious consumption.

### Collaboration with International Initiatives

UTM has also collaborated with various international initiatives focusing on improving waste management practices. This includes educational programs that promote awareness of waste generation, recycling, and the importance of transitioning to a circular economy.

### Research and Innovation

Ongoing research projects at UTM have emphasized innovative solutions for waste management, particularly in addressing the challenges posed by municipal solid waste. These initiatives aim to develop strategies for effective waste collection, segregation, and recycling within local communities.



In 2022 and 2023, the University of Tunis El Manar (UTM) engaged in projects focusing on sustainable fishing practices, addressing both environmental challenges and gender equality in the sector.

Initiatives included workshops aimed at integrating women into fishing roles and promoting responsible fishing methods. EmnaBenkahla, a researcher at UTM, highlighted the impact of climate change and pollution on marine life, advocating for sustainable practices to protect the fishing economy. These efforts are part of a broader aim to foster resilience in Tunisia's coastal communities.

The Living Lab concept at the UTM focuses on collaborative innovation in various fields, including energy and environmental sustainability. It aims to bridge the gap between academia, industry, and the community, facilitating hands-on experimentation and co-creation processes.

One notable initiative is the FASTER Living Lab, which addresses adaptation to climate change within the agricultural sector. This project encourages knowledge transfer among researchers and practitioners, promoting collaborative efforts to devise effective adaptation strategies. The Living Lab engages diverse stakeholders through workshops, allowing them to share insights and develop actionable solutions relevant to local contexts.



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## Workshops and Training

Throughout 2022, the FASTER project organized workshops aimed at training Farm Advisory System (FAS) agents and disseminating knowledge to farmers. These workshops included discussions on adaptation strategies to combat the impacts of climate change

## Collaborative Research

There was a continued focus on research collaboration between Tunisian stakeholders and European partners, especially under the Horizon 2020 framework. The goal was to improve Tunisia's participation in EU-funded programs, with over €10 million allocated to research and innovation



**Fish Living Lab**



ورشة عمل لإعداد وتنفيذ منهج المختبر الحي •

مخصص لدعم الصيد التقليدي المستدام •

Projet GEL GINTEL-BIZERTE





13 CLIMATE ACTION



IMPACT



PRIORITY



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**CLIMATE ACTION**



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Pr. Noamen Rebai,  
UTM, SDG 13 Ambassador

Noamen Rebai Professor at “École Nationale d'Ingénieurs de Tunis,”  
Tunis El Manar University responsible for the Specialized Master's  
degree in Geomatics.

1. Greenhouse Gas emission Report

GHGReportofUTMoftheyear2022andBaseline year 2016  
<http://www.utm.rnu.tn/utm/fr/politiques--utm-ghg-emission-report>  
<http://www.utm.rnu.tn/utm/fr/politiques--emmission-carbon>

Sustainability Policy

Sustainability is the balance between the economy, equity, and the  
environment.

The UTM approach is to ensure the development of our activities  
without compromising the quality of life of current and future  
generations by acting in an economically, environmentally, and socially  
responsible manner. Our ambition is to adopt the ESG principles to  
develop a sustainable and eco-friendly campus that ensures efficient  
use of materials, space, and energy, respect, and promotes the well-  
being of the employees and students on the campus. Our approach is  
to focus on three main pillars: operation, awareness, and research.

2. Med-EcoSuRe project from 2019 to 2023

The Med-EcoSuRe project offers an innovative approach to the definition and  
diffusion of cost-effective energy renovation within university buildings, with the  
perspective of extending results to the whole public buildings sector in the long  
term. A Mediterranean cross-border living lab - bringing together researchers,  
building managers, companies, public organisations, and students - will be  
established to develop energy efficiency and renewable energy solutions as well as  
retrofitting schemes to be implemented in 9 university buildings. The final aim  
behind the project is to turn university managers into active players contributing to  
the co-creation and experimentation of emerging ideas, breakthrough scenarios  
and innovative concepts.

<https://www.enicbcmmed.eu/projects/med-ecosure>.

3. MAR2PROTECT

The project aims to provide a holistic approach to prevent groundwater  
contamination from the impacts of climate change and global change.  
The core of the innovative Managed Aquifer Recharge is the Decision Support  
System which incorporate technological and societal engagement information  
using an Artificial Intelligence-based evaluation to improve groundwater quality  
and quantity.

The Tunisian partner, ISSBAT (UTM), defines the objective of the project as to  
implement an effective tertiary treatment to minimize the introduction of  
pollutants in the aquifer. The aquifers studied are located in the Cap Bon Peninsula  
in Tunisia.

Partnership

Role	Name of the organisation	Country
Lead beneficiary	Mediterranean Renewable Energy Centre	Tunisia
Partner 1	University of Tunis El Manar	Tunisia
Partner 2	University of Florence – Department of Architecture	Italy
Partner 3	University of Seville - Thermotechnics Group at Thermal Energy Engineering Department	Spain
Partner 4	An-Najah National University - Energy Research Centre	Palestine
Partner 5	Naples Agency for Energy and Environment	Italy
Partner 6	Spanish association for the internationalization and innovation of solar companies	Spain

DEMOSITE 2 : Oued Souhil, Nabeul

- Location: Nabeul [36°27'43.1"N 10°42'20.9"E]
- **CW (Nabeul-Hammamet aquifer) Problems:**
  - **level is declining:** increasing water demand and long period of drought
  - **water quality is deteriorating:** High Salinity (sea water intrusion) and diffuse pollution from agriculture (excess of nitrate and phosphorus)

- **Recharge Water:**
  - Treated MWW from two WWTPs **SES** (ditches) and **SE4** (activated sludge).
  - **High salinity**
  - **Pharmaceuticals** (Cefixacin)
  - **Endocrine Disrupting Chemicals** (Bisph)



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4. Implementing of photovoltaic panels at ENIT, September 2023



5. Tunisian-Bavarian Hub for Green Hydrogen

Implementation of Tunisian-Bavarian hub for green hydrogen in ENIT (UTM), as part of the project

RESEARCH ACTIVITIES

H2Vert.TUN, May 2023

Green hydrogen is produced by electrolysis of water from renewable energy. Its main assets are zero greenhouse gas emissions, being a totally clean energy, which is an asset for the decarbonisation of industry in Tunisia, and its flexibility, as it can be stored and distributed on demand, which is an asset for the export market.

<https://www.giz.de/en/worldwide/109268.html>

The hub, launched Wednesday, is a platform of exchange and training intended to promote research and develop top-notch technologies in connection to green hydrogen. Scaled-up scientific and technological cooperation is an additional target along with the stepped-up exchange of experiences and partnerships. The hub also offers training and skill-building opportunities for professionals.

<https://www.tap.info.tn/en/Portal-Economy/16307007-first>

International Congress « Artificial Intelligence Role & Climate Change Impact », 3rd edition of the international congress “ISEE Geomatics” held October 30th, 2023, <https://2023.isee-geomatics.com/>

**TOPICS**

**GEOMATICS and AI.**

- 1. Smart solutions for sustainable water, soil and air management
- 2. Geospatial data for Sustainable Development of agricultural resources.
- 3. Assessment Approaches for land use, land cover (Agrogeomatics)
- 4. Monitoring environment and climate change indicators
- 5. Natural Resources and Environment management

**SPATIOTEMPORAL MONITORING AND 3D MAPPING**

- 1. Real Time monitoring and embedded system
- 2. 3D Survey and Mapping
- 3. Geodesy and Urban 3D
- 4. Solar land Modelling
- 5. Building Information Modelling for Sustainable Development

**HERITAGE AGAINST CLIMATE CHANGE**

- 1. Augmented reality for heritage simulation
- 2. Climate change impact on heritage
- 3. Digital photogrammetry and rebuilding the monument
- 4. Revisited Tourism
- 5. WEB-GIS applications

**KEYNOTES**

- Michel Kasser
  - Geomatic Industry Survey.
- Yacine Bouroubi
  - Artificial Intelligence and Big EO data applications: case studies
- Michel Boko
  - Contemporary Climate Change: factors and impacts
- Pierre Gruyennmeyer
  - Architectural photogrammetry and applications of heritage documentation
- Faouzi Ghorbel
  - Geometric Statistics: Methods and applications

**CONTACT US :**

- +216 23 29 19 35
- 2023.isee-geomatics.com
- contact@isee-geomatics.com
- Hammatet - TUNISIA

**ISEE GEOMATICS 2023**

**ATG**

**3rd EDITION**

**TIMELINE GEOMATICS! ARTIFICIAL INTELLIGENCE ROLE & CLIMATE CHANGE IMPACT**

**CONGRESS CHAIRS:**

Noamen KERRI (ATG, ENT/Université Tunis El Manar)  
Hohamed MASTER (Université Mohamed V de Rabat)

**Conference**

**AIM AND OBJECTIVES**

ISEE GEOMATICS 2023 will bring together researchers, research scholars, experts, and policy makers to share their research and experiences and discuss recent advances in Geomatics Methods and applications to rural, cultural Heritage city, Smart City, Energy, Georesources, and new Geomatic Industry Survey. The conference will cover many aspects related to Modeling with Intelligent Systems applications grouped into three main topics below. Indeed, the colloquium will provide a space to discuss the results of the digital Web mapping research thematic and fundamental applications. It will also offer the opportunity for a national and international debate of experts:

- To emphasize the Public, Private, and NGO Partnership and
- To develop new incoming works on AI methods and applications, with consideration of climate change impact, and broadcasting of the Copernicus Geospatial data for the wide public & OPEN DATA.

**ORGANIZER**

**PROMOTE PARTNERS:**

**KEY DATES**

July 10th, 2023 : Dead line for Abstract submission  
July 31st, 2023: Acceptance notification  
Sept 15th, 2023: Deadline for registration & 2nd circular  
October 1st 2023: Scientific program & 3rd circular

**CONFERENCE VENUE**

The I SEE GEOMATICS 2023 will take place in Hammamet, a coastal city located in the Northeast of Tunisia. The town is very famous for its longish white sandy beach and tourist resort. At the city center stand the old Medina and the Historic fort of Hammamet

**ABOUT THE ORGANIZERS**

The Tunisian Association of Geomatic (ATG) is in partnership with the Research Laboratories of Engineering Geodesy and Geomatics (LHGG) in ENIT. In addition, the University of Tunis El Manar (UTM), and High school of Engineering of Tunis (ENIT) are pleased to organize the third International Congress of I SEE GEOMATICS 2023, from 30th October to 1st November, 2023 in Hammamet-Tunisia.



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**Conference « New data for the management of our resources »**  
National conference held at ENIT in November 2023. The theme of the first session is the management of energy resources.

11-11-2023  
10:30AM  
ENIT – AMPH  
LATIRI

Cycle de rencontre réseau

« Nouvelles données pour la gestion de nos ressources »

Donne #1 : Energies

Association des Doyens de l'École Nationale d'Ingénieurs de Tunis

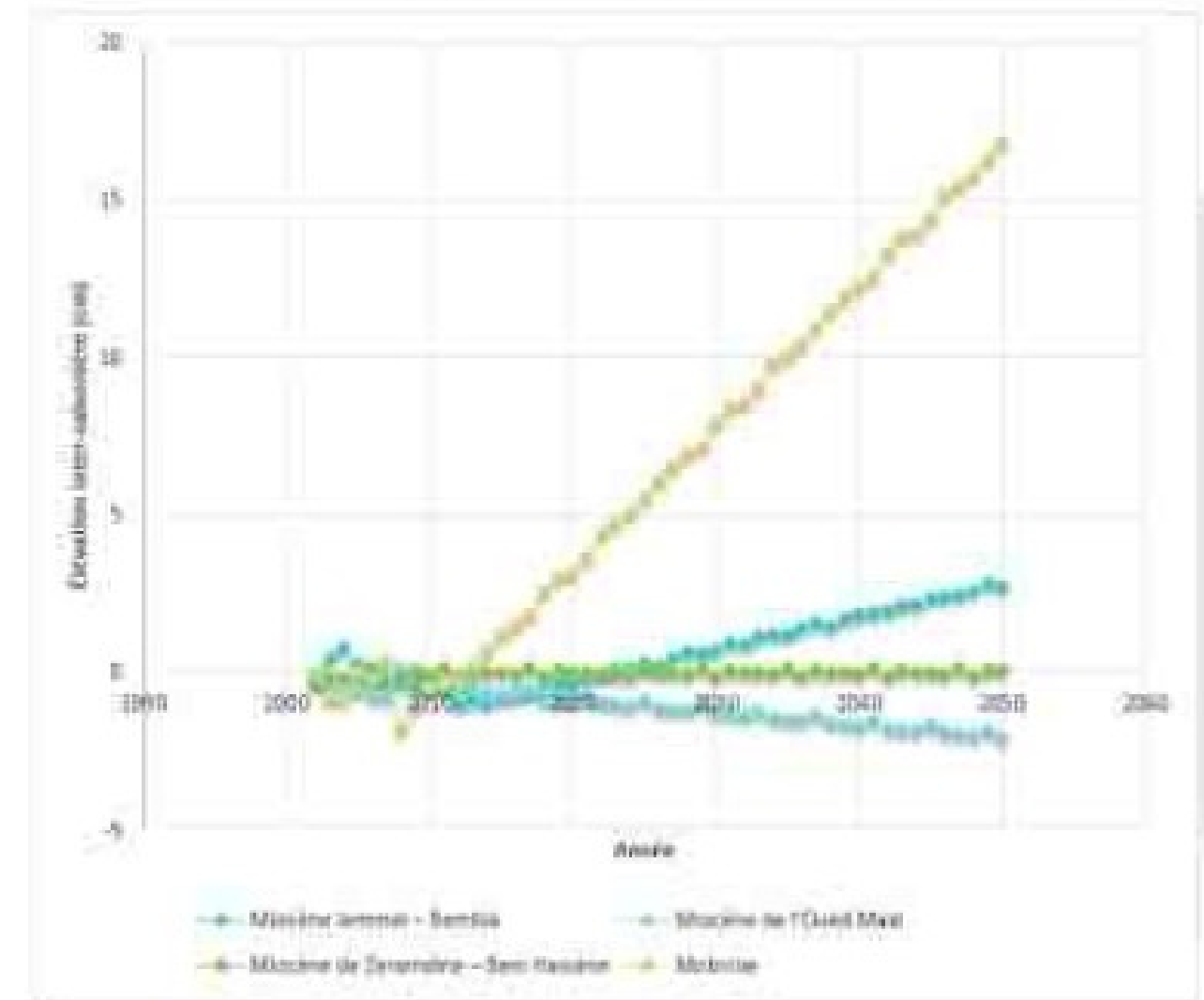
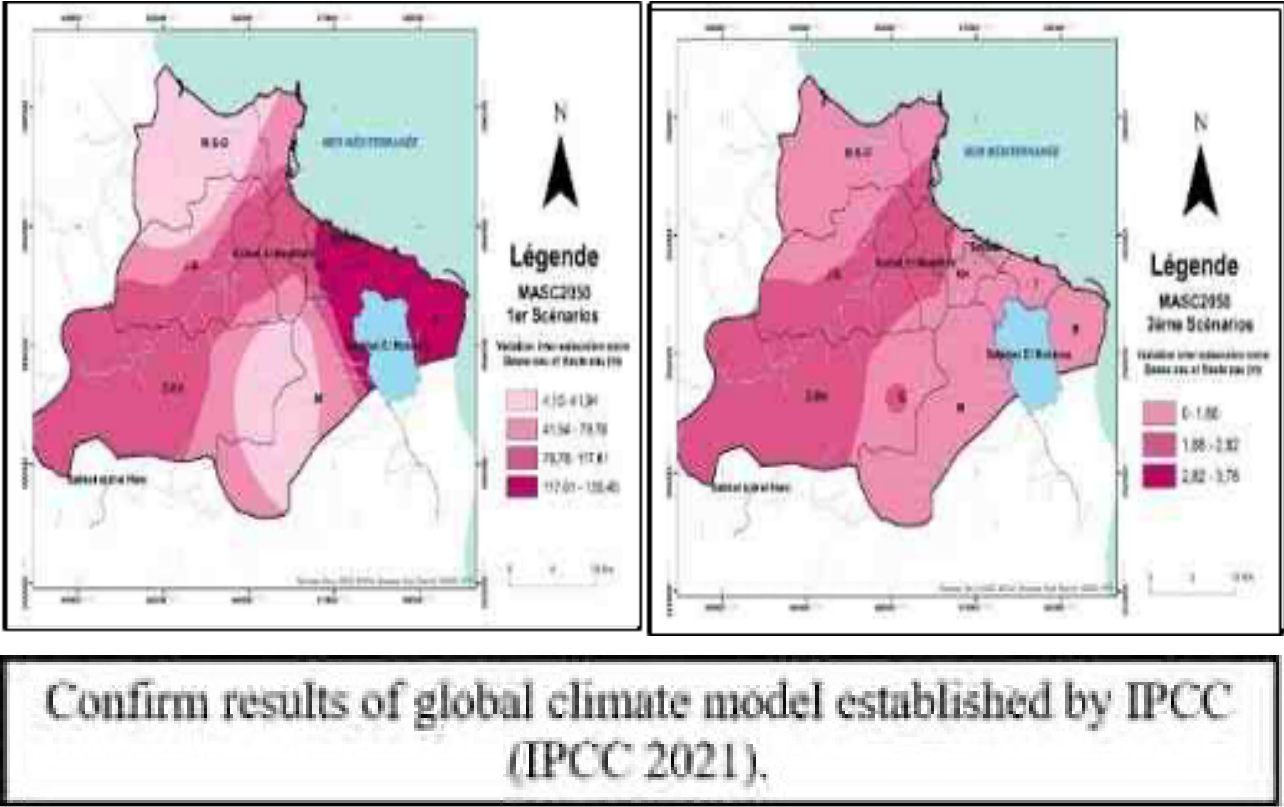
Mr. Belkassen Chikouh  
Chef de département chargé du Ministère de l'Industrie, des Mines et de l'Énergie

Mr. Othmane Bouadani  
Professeur à l'École Nationale d'Ingénieurs de Tunis, ancien directeur de l'Équipement, système et de l'Énergie et de l'Énergie et de l'Énergie

Mr. Adel Chachi  
Directeur de l'Infrastructure Nationale de l'Énergie et de l'Énergie

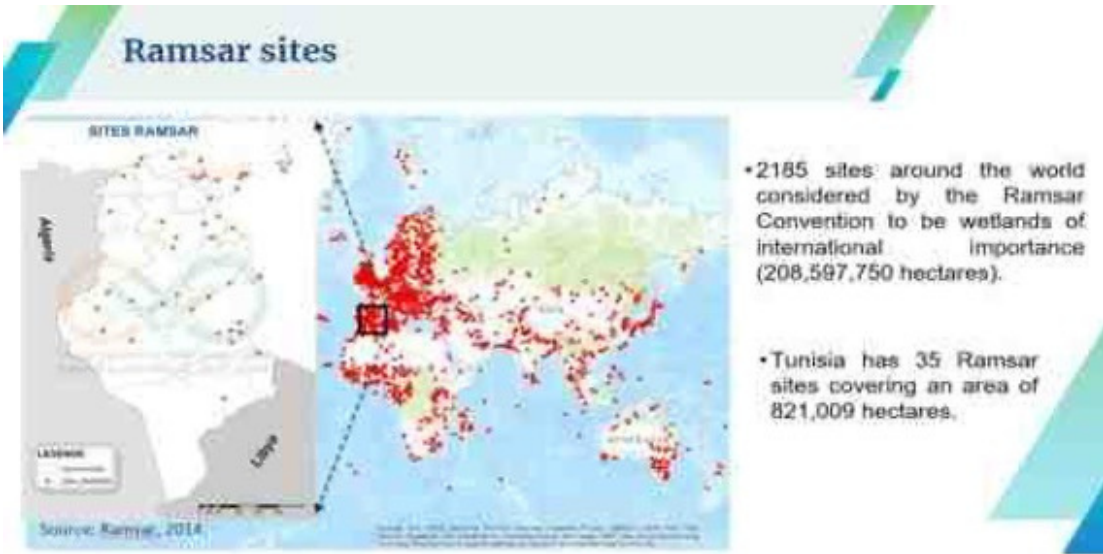
**PhD & Master Research**  
Climate Impact on Marine Intrusion

**TUNISIAN - HUNGARIAN  
SCIENTIFIC DAY (1<sup>st</sup> edition)**  
Artificial Intelligence  
RESEARCH & APPLICATION

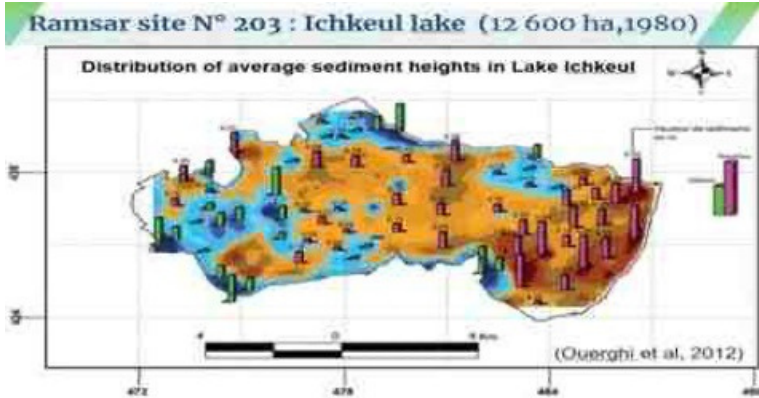


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Assessing the impact of climate change on Lake of Ichkel, a natural reserve

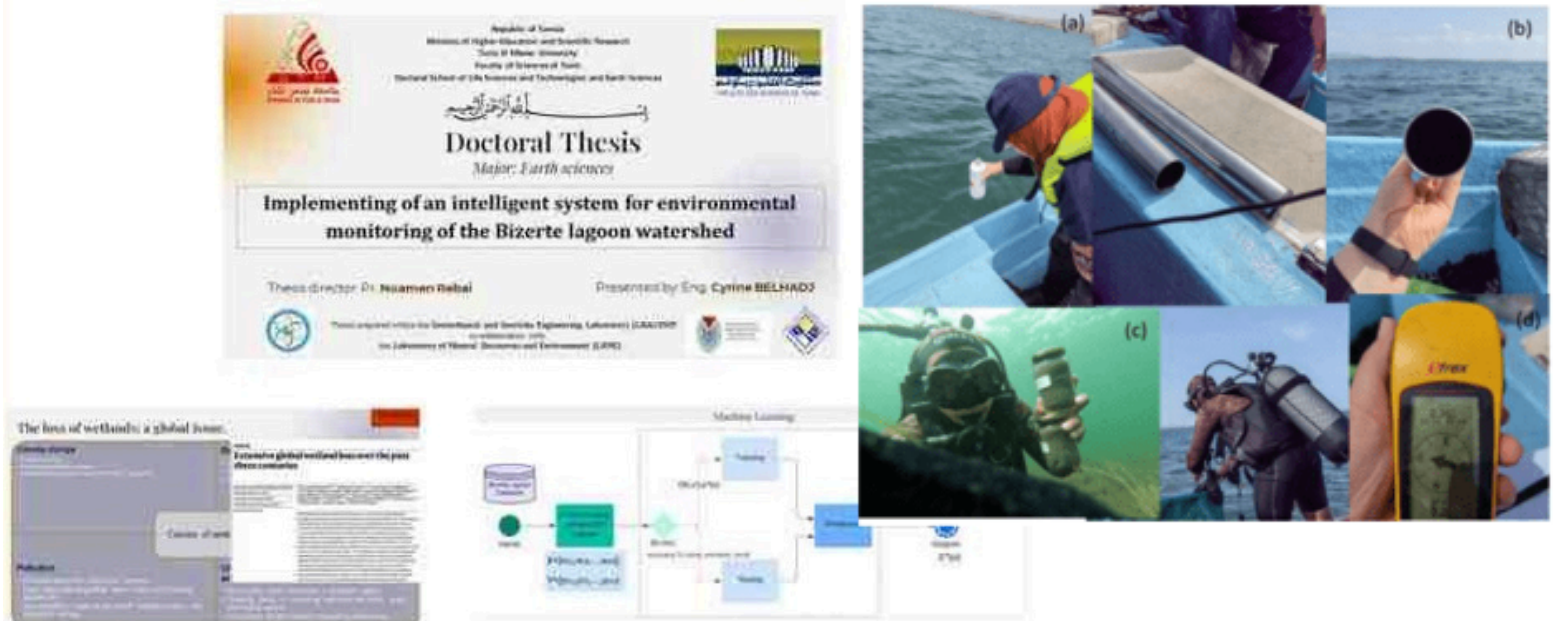


The research focuses on quantitatively assessing the impact of climate change on the functioning of Lake Ichkeul, an 8500-hectare (85 km<sup>2</sup>) ecosystem in northern Tunisia. Utilizing the MOHYB hydrodynamic model, a 1D numerical approach, the study investigates the role of lagoon exchange through the Tinja river, including the influence of tides, in controlling salinity and preventing drought occurrences in the Ichkeul lagoon. The model incorporates relevant environmental parameters, such as water inflow, wind stress, evaporation rates, precipitation, river inputs, water temperature, air temperature, and tidal variations, to simulate the hydrodynamic behavior of the lagoon. The hydrodynamics of Lake Ichkeul are influenced by the inflow of fresh continental water during winter and saltwater inflow from the Bizerte Lake during summer. Additionally, the model considers the impact of tides on controlling the flow of salt into the lagoon. By incorporating these dynamics, the study accurately captures the complex behavior of the lagoon and its response to changing environmental conditions.



Intelligent system for Environmental monitoring

This thesis project aims to develop intelligent systems for environmental monitoring and contamination risk assessment in the Bizerte Lagoon, a region facing significant anthropogenic pressures. By leveraging advanced technologies such as the BLHAJ2030 model for water quality and the OP-LSTM model for predicting sediment contaminants, the goal is to effectively manage pollution levels. The proposed intelligent system integrates AI for real-time contaminant monitoring, based on 22 years of geochemical historical data (2002-2023). The methodology combines geochemical analyses, AI modeling, and Geographic Information System (GIS) tools to evaluate contamination risks and groundwater recharge potential in the region surrounding the Bizerte Lagoon.

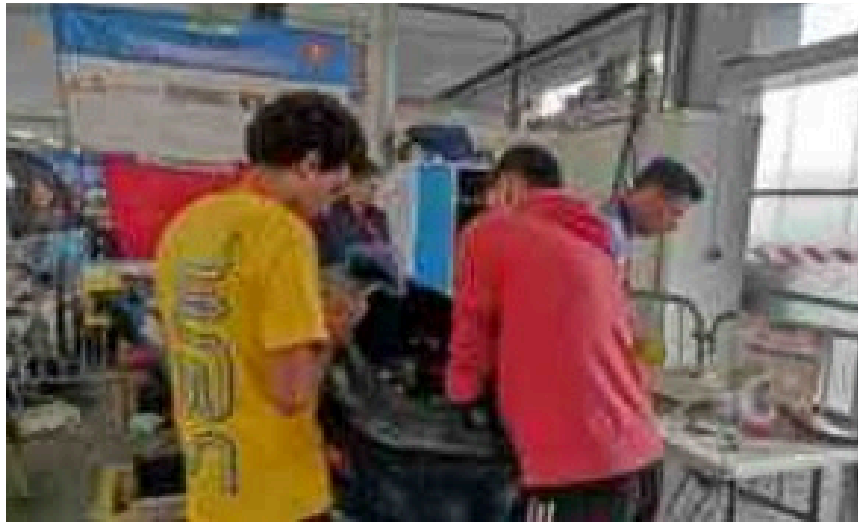




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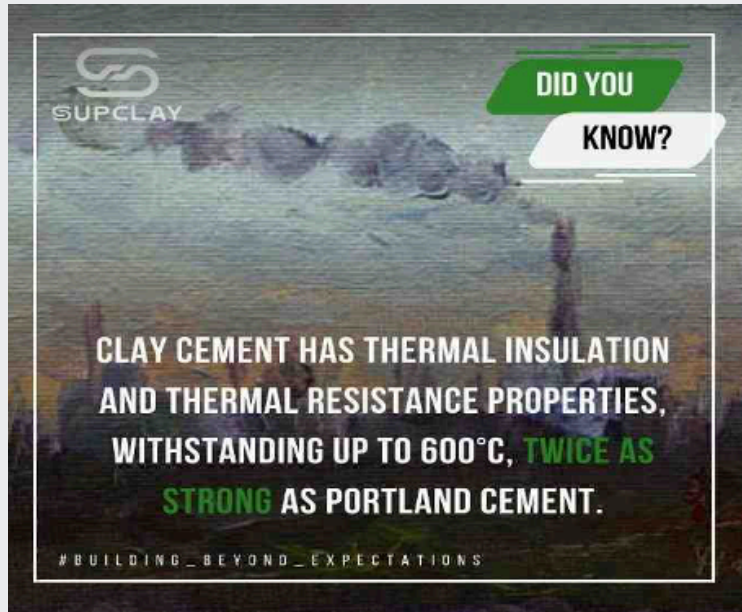
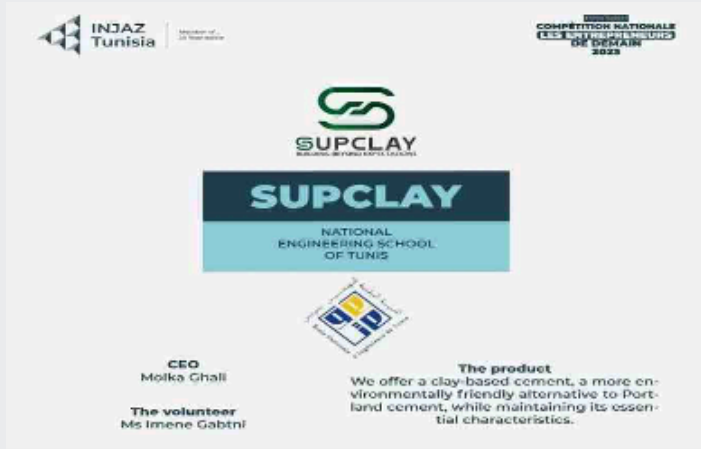
6. INNOVATIONCOMPETITION  
Shelleco-Marathon

ENITECOCAR participated in the international competition "Shell Eco-Marathon" on June 30th, 2022, and ranked 18th worldwide with a score of 222 KM/L.



National Competition INJAZ Tunisia 14th edition "The Entrepreneurs of the Future".

The team Supclay won the Best Young Company Award for their product, Clay-based cement, an environmentally friendly alternative to Portland cement. They will be representing Tunisia at the regional competition in November in Qatar.





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## 7. TRAINING

### Training IA, Climate Change & Geomatics

Training for the application of IA in studying Climate Change & Geomatics, held November 2nd, 2023, in the context of the international congress of the same thematic.



## Workshops

### Workshop GREECON

“GREECON” workshop for ecological construction, organized in ENIT (UTM) by Civil engineering club, 3Zeros club, and IEEE ENIT branch, February 2nd, 2023.

<https://www.facebook.com/ENITunis/posts/pfbid0x4t3aZNPC7Zqtp34vgmEg5Uafpc9wxQgAp6rjK3fHukgosaGoBRneLzC5JEBkmZml>



### Workshop IA, Climate Change & Geomatics

As part of the international congress “ISEE Geomatics” held October 30th, 2023. Professionals and Researchers animated different workshops in the theme of Geomatics and Climate Change.

<https://2023.isee-geomatics.com/preprogram/>.

## Workshops: 30th October

Monday, 30 October workshops related to the themes of the Congress are organized on a half-day.

- WS 1: Artificial Intelligence role in Geomatics
- WS 2: Climate change between science and politic.
- WS 3: Local Climate Modelling (LCM)
- WS 4: Geospatial data for Sustainable Development
- WS 5: LIDAR 3D mapping and survey
- WS 6: Copernicus and RS data
- WS 7: Geomatic and Entrepreneurship: AI & OD for sustainable development

## FIELDWORK

Field visits (monitoring and survey of climate change impact) for students of Civil Engineering department of ENIT (UTM) to Korba, Nabeul (2023)  
Management of littoral to climate resilience Observation of “Canivelle” to reduce the vulnerability of the beach of Korba-Tunisia.





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**Ganivelle: wooden fences set up to preserve the dunes.**



The Ganivellesisa research project, which aims to prevent the dispersal of the beach sand. The Ganivelles preserve the dune ridge by forming embryonic dunes that won't be dispersed by storms or other environmental phenomena due to climate change.



**9. CLUB ACTIVITIES**

Launched in October 2022, this club is present in 17 universities and is dedicated to promoting the 3Zero initiative: Zero exclusion, Zero carbon, Zero poverty. The club aims to create a sustainable campus by working towards the achievement of the Sustainable Development Goals (SDGs).





IMPACT



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COMMUNITY

**LIFE BELOW WATER**



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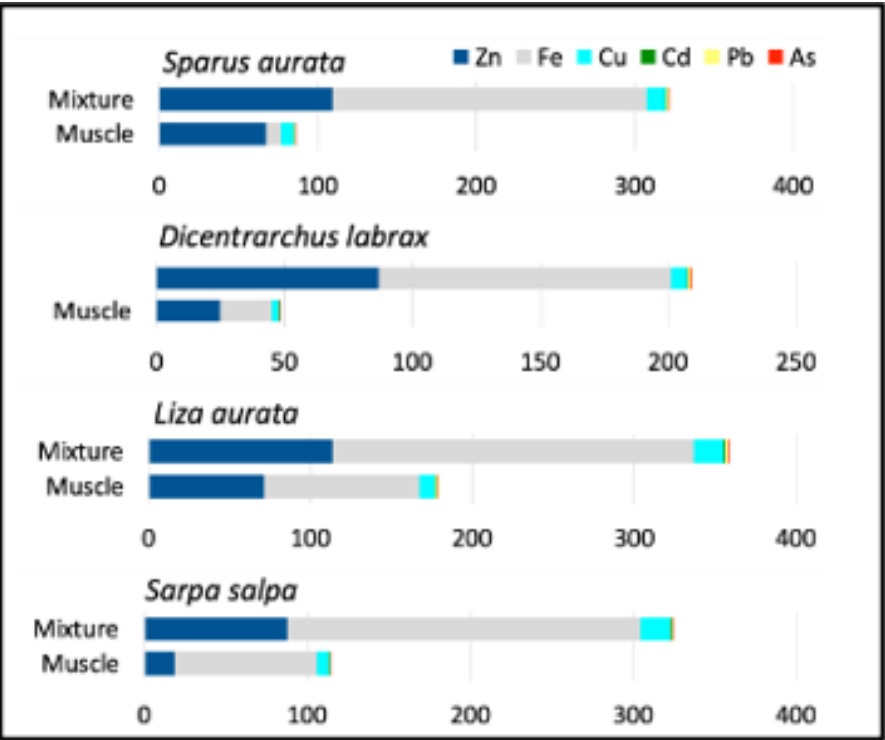
Pr. Moncef Guedari,  
UTM, SDG 14 Ambassador

Enhancing Life Below Water: Research Contributions to ODD14 at the University of Tunis El Manar

The University of Tunis El Manar has been a leader in research focusing on Sustainable Development Goal 14, which aims to conserve and sustainably use the coastal wetlands and marine resources. This report highlights significant research initiatives conducted during the 2024 university year, addressing critical issues such as marine pollution, biodiversity loss, and ecosystem health in Tunisia. These studies reflect the university's commitment to advancing scientific knowledge and promoting sustainable practices in aquatic environments.

1. Trace Metals Contamination in Bizerte lagoon

The study titled "Human Health Risk Assessment of Trace metals in Four Fish Species Harvested from the Bizerte Lagoon (Tunisia)" by Telahigue et al., investigated the levels of Cd, Pb, As, Fe, Cu and Zn, in commonly consumed fish species. The results showed that mixed fish tissues exhibited significant high concentrations than muscle.



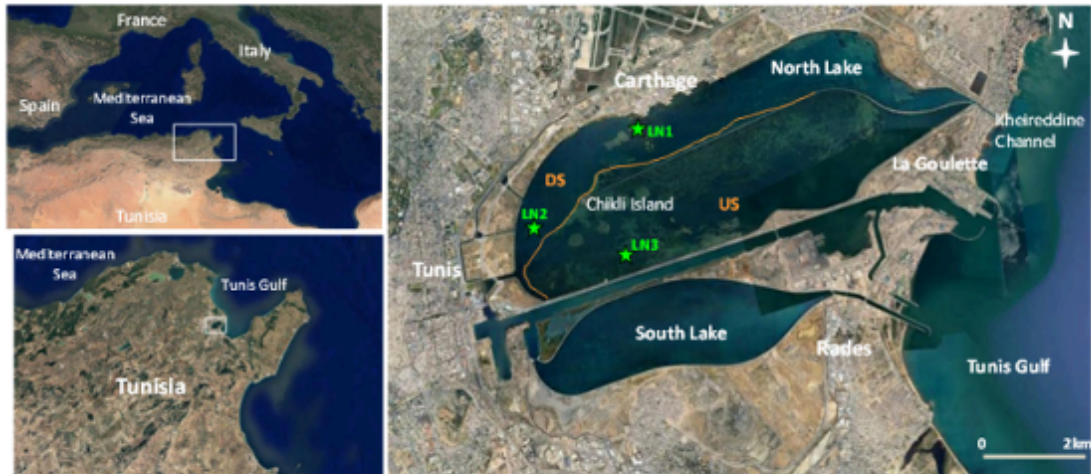
Concentration of heavy metal(oids)(Cd, Pb, As, Fe, Cu, and Zn) in the muscle tissue and the total mixed fish tissues of Liza aurata, Dicentrarchus labrax, Sparus aurata, and Sarpa salpa  
(Source : [nstm-bulletin.tn/index.php/bulletin/article/view/1709/1139](http://nstm-bulletin.tn/index.php/bulletin/article/view/1709/1139))

This research assessed potential health risks, particularly for vulnerable populations such as children and pregnant women, highlighting the urgent need for regulatory measures to mitigate trace metal contamination in coastal waters. The findings underscore the importance of monitoring fish safety and implementing stricter pollution controls to protect public health.

2. Nutrient Cycling and diagenetic change in Tunis lagoon

In "Impact of Dredging on Diagenesis and Nutrient Release in a Restored Mediterranean Lagoon (Lagoon of Tunis, Tunisia)" by H. Ben Mna et al. (2024), the ecological impacts of dredging activities were thoroughly examined. The study revealed that while dredging might initially enhance water quality by removing accumulated sediments, it can lead to long-term nutrient release and significant diagenetic changes that disrupt the ecological balance of the lagoon. This research emphasizes the need for careful management of dredging operations to avoid detrimental effects on local ecosystems.

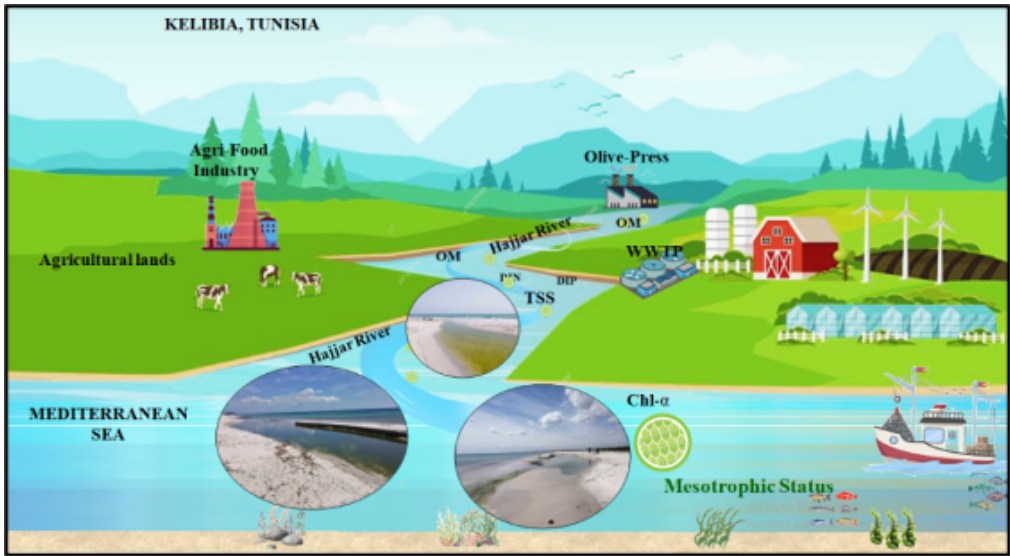
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STUDY AREA AND LOCATION OF SAMPLING SITES  
(SOURCE : [HTTPS://DOI.ORG/10.21203/RS.3.RS-4959425/V1](https://doi.org/10.21203/rs.3.rs-4959425/v1))

3. River Nutrient Inflows and Coastal Ecosystem Health

The study titled "River Nutrient Inflows and Coastal Ecosystem Health in Northeast Tunisia's Kelibia Mediterranean Region" by S. Melki et al. assessed the impact of nutrient inflows from coastal rivers on marine ecosystems. The research found that excess nutrients from agricultural runoff and urban discharges lead to algal blooms, resulting in oxygen depletion and negatively affecting fish populations. The findings highlight the critical need for improved agricultural practices and effective wastewater management to mitigate nutrient loading and protect coastal ecosystems.



SCHEMA REPRESENTING RIVER NUTRIENT INFLOWS AND COASTAL ECOSYSTEM HEALTH (SOURCE :[HTTPS://DOI.ORG/10.1016/J.RSMA.2024.103410](https://doi.org/10.1016/j.rsma.2024.103410)).

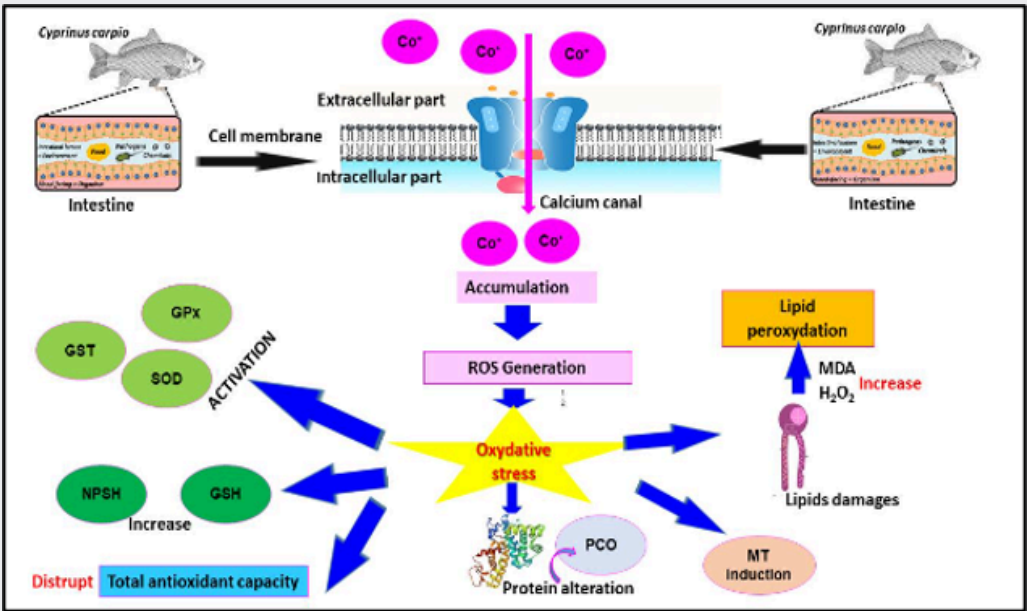
4. Fish Populations and Stock Structure

"Discriminant Stock Structure of *Diplodus annularis* (Perciformes, Sparidae) in Tunisian Waters Inferred from Saccular Otolith Morphometry and Microchemistry" by M. Ben Ghorbel et al., analyzed the size dimensions and microchemical structure of two populations of annular seabream, collected from Djerba and kerkenah islands.

By employing morph metric and chemical analyses of otoliths, the researchers identified distinct stock groups within Tunisian waters. This work is vital for developing targeted fisheries management strategies that take into account the specific characteristics of different fish stocks, ultimately promoting sustainable fishing practices.

5. Toxic Effects of Heavy Metals

"Toxic Effects Assessment of Acute Cobalt Exposure on Stress Biomarkers Responses of *Cyprinus carpio* Intestine" by Chetoui et al. (2024) documented significant biochemical changes and stress responses in common carp due to acute cobalt contamination. The study revealed how trace metalexposure can disrupt physiological functions in aquatic organisms, underscoring the necessity for pollution control measures to safeguard aquatic health.



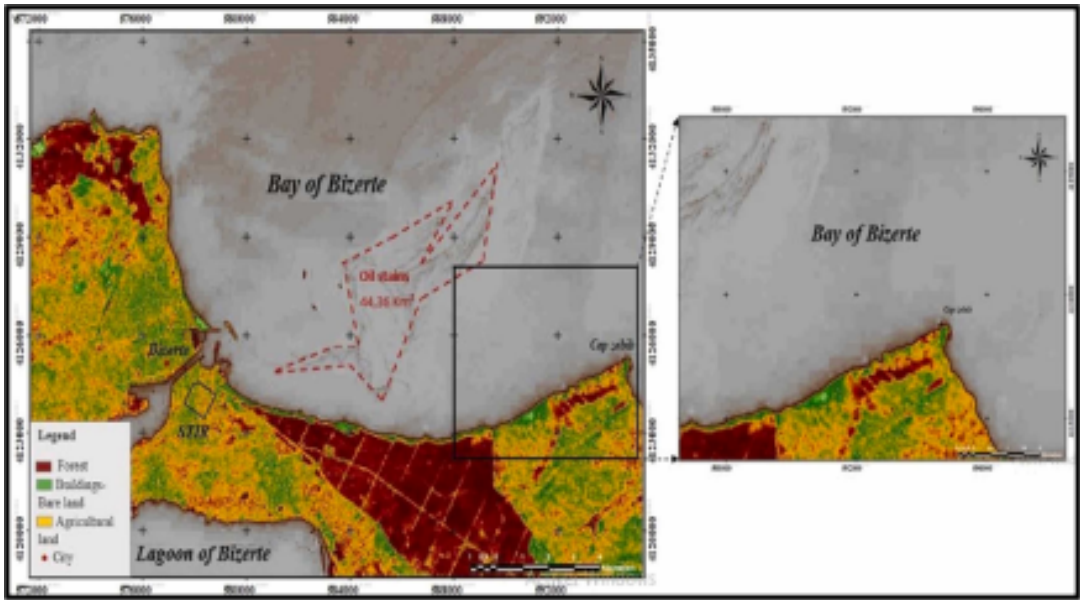
ASSESSMENT OF ACUTE COBALT TOXICITY ON STRESS BIOMARKERS IN *CYPRINUS CARPIO* INTESTINE  
(SOURCE :[HTTPS://WWW.EJSIT-JOURNAL.COM/INDEX.PHP/EJSIT/ARTICLE/VIEW/412](https://www.ejsit-journal.com/index.php/ejsit/article/view/412)).



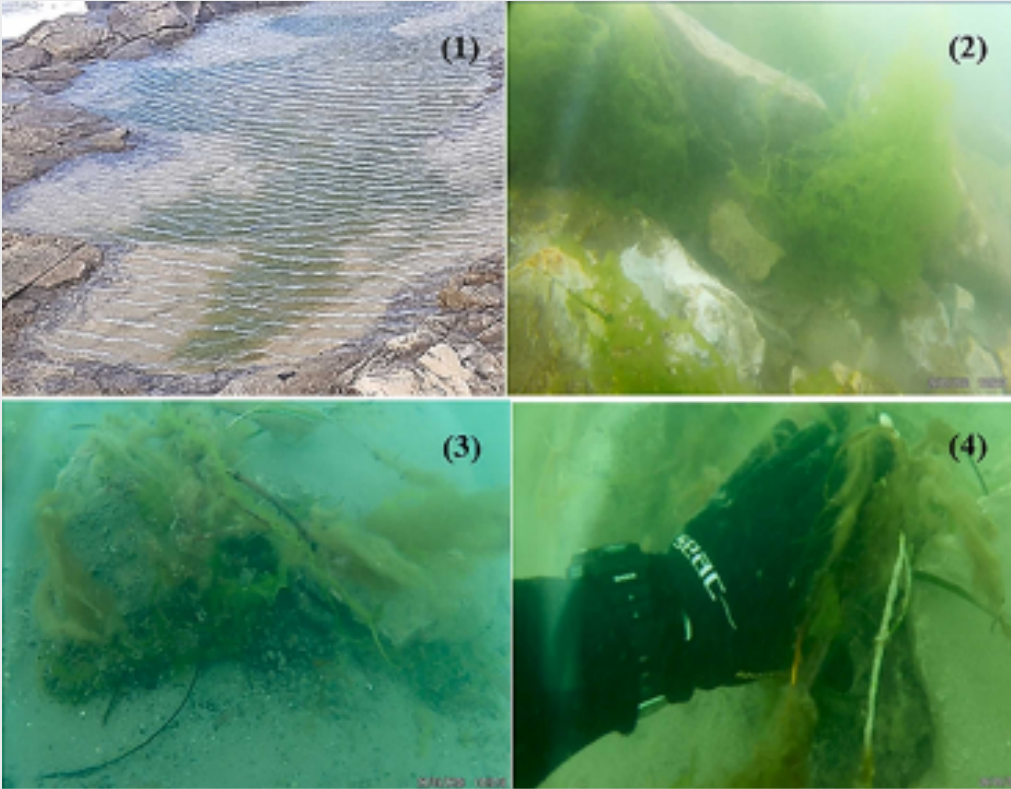
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6. Oil pollution in Mediterranean Sea

An integrated GIS, Remote Sensing, Geochemical, and Ecological Approach for Correlating and Identifying Oil Contamination Sources of Tunisia’s Northern Coast, by Belhadj et al., evaluates the level of hydrocarbon pollution in the Gulf of Tunis, a location in the western Mediterranean region. Utilizing a combination of GIS, remote sensing, geochemical analysis, and ecological monitoring, the study reveals significant hydrocarbon pollution in surface sediments, with total petroleum hydrocarbon (TPH) levels ranging from 1.4 mg/g to 8.26 mg/g. The primary sources identified are petrochemical industries in the south and marine traffic in the north. The findings indicate a detrimental impact on the surrounding ecology, particularly the benthic community, and an increase in eutrophication.



RESULT OF THE MAPPING OF THE SPATIAL DISTRIBUTION OF OIL STAINS  
IN THE STUDY AREA USING ARCGIS SOFTWARE 10.5 (SENTINEL IMAGE OF OCTOBER 6TH, 2018)



EUTROPHICATION CONFIRMED BY OPPORUNISTIC MACROALGAE CLADOPHORA RUPESTRIS AND (2)(3) (4)  
ULVA RIGIDA (DEPTH: 0-10 M).PHOTOS TAKEN IN 2019 IN THE BAY OF TUNIS  
(SOURCE :[HTTPS://WWW.SCIENCEDIRECT.COM/SCIENCE/ARTICLE/PII/S2352485523005108#SEC0045](https://www.sciencedirect.com/science/article/pii/S2352485523005108#SEC0045) )

Conclusion

The University of Tunis El Manar has made substantial contributions to understanding and managing marine ecosystems related to ODD 14.

Through diverse research efforts addressing marine pollution, biodiversity assessments, and the ecological dynamics of aquatic systems, these studies provide critical insights for policymakers and conservationists. The university's commitment to addressing these vital issues ensures that Tunisia can work towards sustainable use and conservation of its marine resources, promoting the health of both ecosystems and human populations. Continued collaboration among researchers, policymakers, and local communities will be essential in achieving these goals.



15 LIFE ON LAND



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Pr.Atef Jaouani, UTM,  
SDG 15 Ambassador

The University of Tunis El Manar (UTM) demonstrates a steadfast commitment to achieving SDG 15: Life on Land through an integrated approach encompassing research, education, and collaboration with key stakeholders. By spearheading cutting-edge research, UTM advances biodiversity conservation, ecosystem restoration, and sustainable land management.

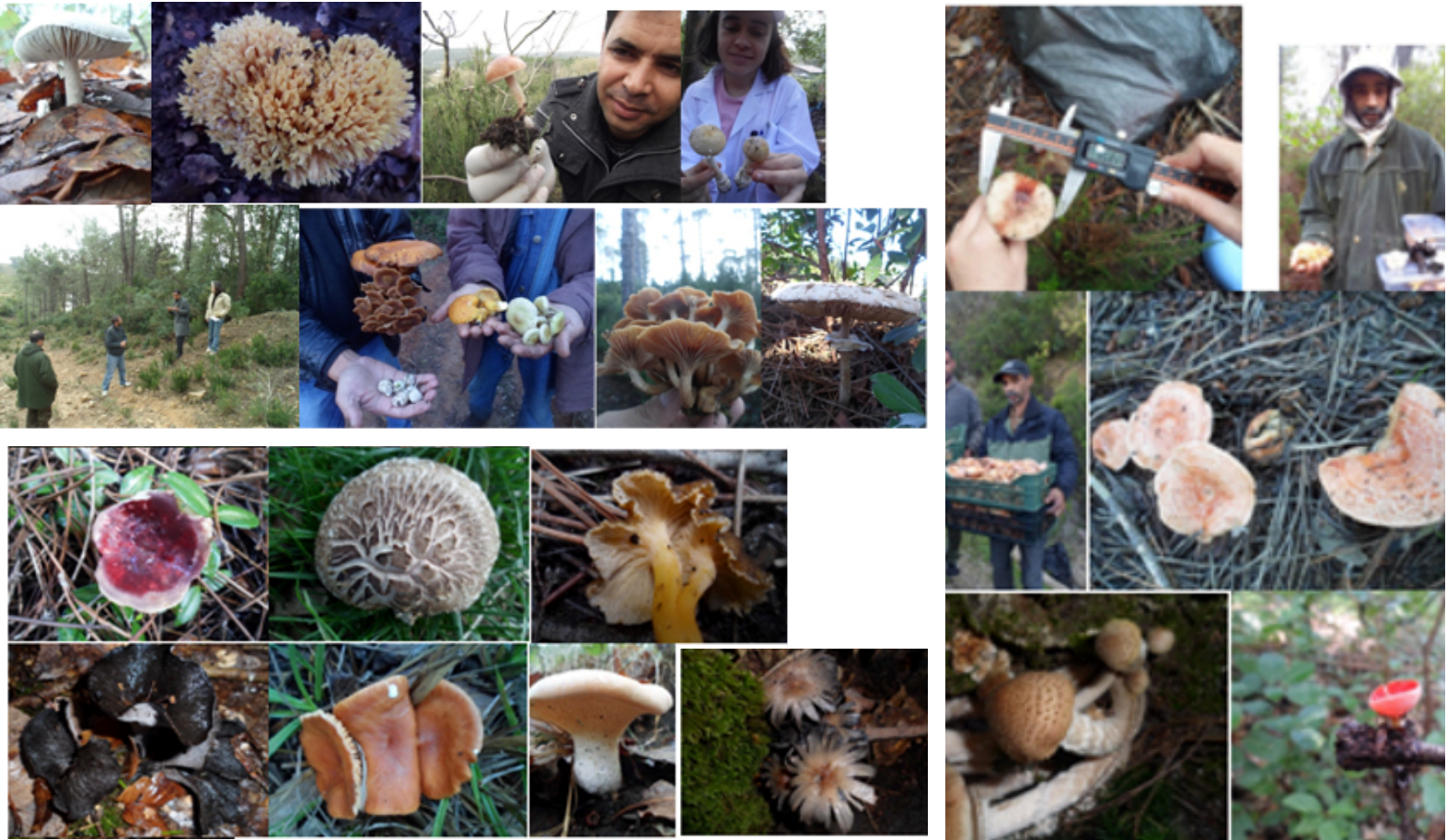
Research initiatives at UTM extensively address biodiversity across multiple dimensions. Animal studies focus on species documentation, diversity restoration, and mitigation of ecosystem degradation caused by anthropogenic activities, including deforestation, urban expansion, hunting, and pollution, as well as natural climate phenomena like desertification and floods. Complementing this, plant studies explore resilience to environmental stressors, such as water scarcity, soil salinization, and the use of saline or treated wastewater for irrigation, offering practical solutions for sustainable agriculture. Microbial research highlights the pivotal role of microorganisms in maintaining ecosystem balance, with findings contributing to ecological stability and sustainable resource management.

UTM delivers innovative educational programs that equip students with essential skills to tackle environmental challenges. Furthermore, the university fosters collaboration with civil society organizations and environmental stakeholders, enabling the implementation of impactful projects and ensuring collective efforts toward preserving terrestrial ecosystems.

1. Fungal Diversity – A National Achievement

A notable and unique achievement of the University of Tunis El Manar is its leadership in studying macromycete fungi diversity in Tunisia’s forests. Researchers conducted the first national inventory of these fungi in collaboration with the National Gene Bank and international partners. The study documented 268 species, including seven globally recognized as rare, and led to the establishment of the first national herbarium of macromycetes. Beyond biodiversity assessment, researchers explored the potential exploitation of these resources.

Studies investigated the nutritional value of fungi and the valorization of bioactive molecules they produce. These molecules have demonstrated promising biotechnological applications, particularly in removing environmental pollutants and enhancing the nutritional value of animal feed. This work highlights the multifaceted importance of fungal diversity for environmental sustainability, ecological balance, and practical applications in agriculture and industry.





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1.Strengthening Regional Collaboration for Biodiversity and Climate Resilience

The University of Tunis El Manar, in collaboration with the Groupement de Développement Agricole Sid Amor, actively participated in two workshops held in Jordan: “Strengthening Biodiversity Resilience in a Changing Climate” (September 22-27, 2024) at the Azraq Eco-Lodge and “Biodiversity – Nature’s Blueprint for Climate Adaptation” (September 28-30, 2024) at the Royal Academy for Nature Conservation, Ajloun Forest Reserve. During these events, Prof. Atef Jaouani showcased impactful initiatives led by the Groupement de Développement Agricole Sid Amor alongside the University of Tunis El Manar’s significant research findings in biodiversity conservation and climate adaptation. Key highlights included innovative strategies to enhance ecosystem resilience, promote sustainable land management, and address climate-induced biodiversity challenges.



2. Conservatories and nature fields study visits

Staff such as Dr Sonia Hmaied and students from the Faculty of Science and the Higher Institute of Medical Technologies of Tunis have participated in numerous study visits to natural fields and species conservatories. These visits are integral to biodiversity courses and research work, providing hands-on learning opportunities and fostering a deeper understanding of conservation efforts. Such activities highlight the University of Tunis El Manar's commitment to sustainability and environmental education.





16 PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS



IMPACT



PRIORITY



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**PEACE, JUSTICE AND STRONG  
INSTITUTION**



## Transforming our **relationship** with nature is key to a **sustainable future**



Dr. Hanène TURKI  
Ambassador of SDG 16

This report highlights the contribution of UTM to promoting peace and mutual understanding through linguistic diversity and tolerance.

UTM's commitment to diversity and inclusion aligns perfectly with the goals of SDG 16, building bridges between cultures and training future leaders to act with empathy and open-mindedness.

### نخبة البراهمي الزواوي - التحكيم والتنمية المستدامة: لقاء الصدفة أم موعد مع التاريخ؟ (1)



بقلم الأستاذة نخبة البراهمي الزواوي. مديرة كرسى الألكسو للتحكيم التجاري الدولي.

1- التحكيم والتنمية المستدامة: لقاء الصدفة أم موعد مع التاريخ؟

2- على الشاكلة التي صيغ فيها هذا السؤال نقرأ أبحاثاً من الباحث بوجود جدل بخصوص العلاقة بين التحكيم من جهة و التنمية المستدامة و بعبارة أوضح يطرح السؤال حول طبيعة العلاقة بين المفهومين من حيث القطع أو الوصل.

## 1. Celebration of the First Anniversary of the ALECSO Chair

The ALECSO Chair for International Commercial Arbitration (CAACI), led by Professor Najet Brahmi Zouaoui, celebrated its first anniversary on Wednesday, April 26, 2023, during a prestigious event held at the El Mouradi Hotel in Gammarth. The ceremony brought together distinguished national and international figures, as well as a large audience, including students from law faculties in Tunisia and abroad.



## 2. Opening Session:

Moderated by Professor Najet Brahmi, the inaugural session featured opening remarks from prominent personalities:

- Professor Mustapha Beltaief, Dean of the Faculty of Law and Political Science of Tunis.
- Professor Moez Chafra, President of the University of Tunis El Manar.
- Mr. Malek Kochlef, Director General of International Cooperation at the Ministry of Higher Education and Scientific Research, representing Minister Moncef Boukthir.
- Mr. Moncef Kchaou, First President of the Court of Cassation.
- Ms. Uta Staschewski, Regional Delegate of the Hans Seidel Foundation for the Maghreb region.



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Notable deans, law professors, and arbitration practitioners, such as Ms. Hanène Turki, Director of the Institute of Living Languages, also attended the event.

**Tributes:**

Acknowledgments were presented to:

- The Minister of Higher Education and Scientific Research.
- The Rector of the University of Tunis El Manar.
- The Dean of the Faculty of Law and Political Science of Tunis.
- Professor Najet Brahmi Zouaoui, Director of the ALECSO Chair.

**Key Highlight:**

A memorandum of understanding was signed between ALECSO, the University of Tunis El Manar, and the Faculty of Law and Political Science of Tunis during the ceremony.

**Workshops and Recommendations**

The anniversary celebration was followed by workshops commemorating the 30th anniversary of the Arbitration Code, which continued until Thursday, April 27, 2023. The sessions produced recommendations to enhance international commercial arbitration practices. These proceedings will be featured in a special issue of the Arab Journal of the ALECSO Chair for International Commercial Arbitration.

**Achievements of the ALECSO Chair**

**Publications:**

- Arab Journal of the ALECSO Chairs: A trilingual indexed journal edited by Professor Najet Brahmi Zouaoui. The first issue, dedicated to the inaugural international conference of the Chair, has been published in Tunis.
- Collective Work on CSR: Developed in collaboration with the University of Tunis El Manar, the Faculty of Law of Toulon, and the Faculty of Law and Political Science of Tunis.
- Upcoming Publication: A special journal issue dedicated to the 30th anniversary of the Arbitration Code.





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### Signed Agreements:

Between ALECSO and the Faculty of Law and Political Science of Tunis:

- Implementation of diploma-based training programs in arbitration.
- Organization of a summer arbitration course at ALECSO headquarters in Tunis.
- Establishment of an annual ALECSO Chair Prize for International Commercial Arbitration.



### Arab Forum and Young Researchers in Arbitration

The ALECSO Chair has initiated the Arab Forum and Young Researchers in Arbitration. This forum aims to gather experts and young researchers to strengthen arbitration skills across the region. A core group of participants has already been formed.

### Learning the Arabic language as a means of intercultural communication

The Bourguiba Institute of Modern Languages in Tunis plays a central role in teaching the Arabic language to foreign students, thus creating a space for communication and cultural exchange. This learning allows students to discover the Arab culture in all its depth and to build bonds of understanding with the local population.



### Linguistic diversity, a pillar of tolerance

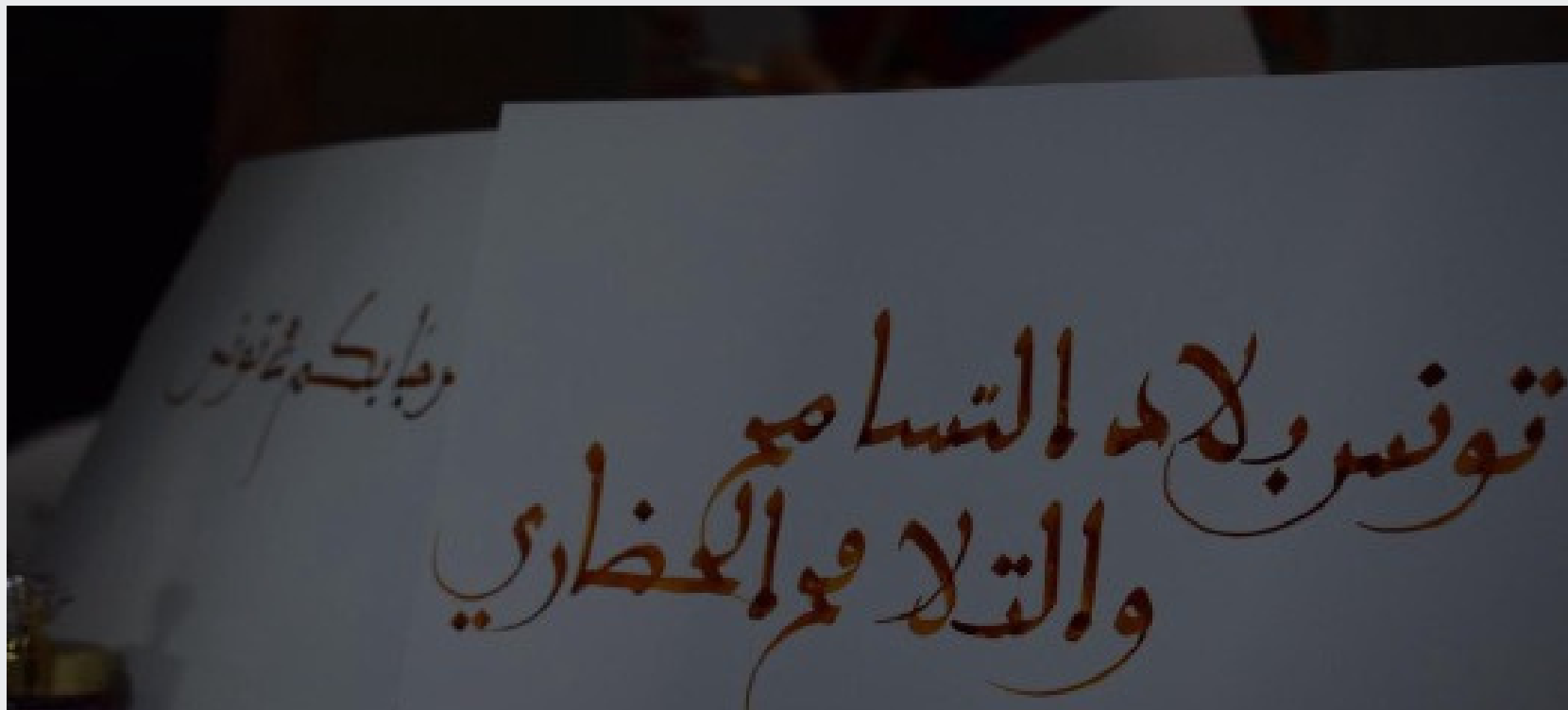
The Institute welcomes students from diverse backgrounds. This multicultural environment creates an inclusive and harmonious space for exchange, essential for reducing prejudices.





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The celebration of world Arabic language day on November 30, 2023.



Participation of students from Le Moyne College (USA)



Participation of students from the Bourguiba Institute for Modern Languages in Tunis in the cultural event 'UTM: Beacon of Cultures.'



Participation of Korean language teachers in the event 'UTM: Beacon of Cultures.'



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**Presentation of the National Strategy for Ecological Transition**

The visit of Ms. Leila Chikhaoui Mehdaoui, Minister of Environment, to the Bourguiba Institute of Modern Languages in Tunis marked an important milestone in the Institute's commitment to sustainable development and education on the Sustainable Development Goals (SDGs). During her address, the Minister presented the National Strategy for Ecological Transition, emphasizing the importance of integrating sustainability across all sectors. Her visit raised awareness among students about environmental challenges. Through the visit of the Minister of Environment, the Institute reaffirmed its commitment to the SDGs, encouraging students to become responsible and informed actors in building a sustainable society.



LINK :[https://www.facebook.com/photo?fbid=807946914842200&set=pcb.807949224841969&locale=fr\\_fr](https://www.facebook.com/photo?fbid=807946914842200&set=pcb.807949224841969&locale=fr_fr)

**Organization of the Japanese Language Proficiency Test (JLPT) at the Bourguiba Institute of Modern Languages in Tunis**

The Bourguiba Institute of Modern Languages hosted the organization of the Japanese Language Proficiency Test (JLPT), an internationally recognized exam for assessing Japanese language skills. This initiative brought together students and enthusiasts of Japanese culture around a common goal, thereby enhancing linguistic and cultural diversity within the Institute. The JLPT provides participants with the opportunity to measure themselves against international standards while introducing Tunisian and international learners to new and multicultural perspectives.



Graduation ceremony for the JLPT at the Bourguiba Institute of Modern Languages in Tunis in the presence of the Ambassador of Japan to Tunisia, the President of the University of Tunis El Manar, and the Director General of International Cooperation at the Ministry of Higher Education and Scientific Research.

**Visit of the Ambassador of the United Kingdom to Tunisia at the IBLV**



PHOTO OF QUEEN ELIZABETH II'S VISIT TO THE BOURGUIBA INSTITUTE IN 1980.



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Promotion of partnership with the University of Oxford



Guided tour of the National Military Museum



Visit of IBLV students to the National Military Museum

This museum showcases the military history of Tunisia, from the Carthaginian era to the present day. It is located in the city of Manouba, specifically within the Palace of the Rose.

Debate conference on 'The Importance of Language Learning' with the participation of students from the Faculty of Law and Political Science of Tunis and foreign students enrolled in the Arabic course at the Bourguiba Institute of Modern Languages in Tunis.



"TOLERANCE IS THE LANGUAGE OF HAPPINESS AND PEACE."

Consultancy and Expertise in Legislation and Policy Drafting at the Faculty of Law and Political Science of Tunis

**Dr. Rabha Ghandri is an expert in Legislative Drafting,** Comparative Law, and rights in rem she has obtained the following certificates:  
Certified trainer in the support of vulnerable populations in access to justice by the German

- Foundation for International
- Legal Cooperation (IRZ)
- Certified trainer in legislative drafting by IRZ

**The Faculty of Laws “jurisdictional science and political sciences” of Tunis has the following professional programmes:**  
Master Program in “Legislative Drafting” (in cooperation with Presidency of the Government)  
A new Master’s Degree Program at The School of Law and Political Science at The University of Tunis El-Manar (since 2023) –  
Conceptualized and reviewed the program, recruited the teaching team, and monitoring delivery and results of the program

**Research Lab of Conflict Resolution (RELEVE),**  
The School of Law and Political Science at The University of Tunis El-Manar (Since 2021)  
Co-drafted and edited a manual on “Quality Standards for Legislative Drafting” under a cooperation program with German Foundation for International Legal Cooperation (IRZ)



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**Presentation of The Legislative Drafting Guide at the conference "Promoting Quality in Legislative Drafting" December 2024**



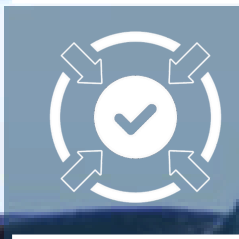
**Presentation of The Legislative Drafting Guide at the conference "Promoting Quality in Legislative Drafting" December 2024**







**17** PARTNERSHIPS  
FOR THE GOALS



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**PARTNERSHIPS FOR THE GOALS**

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Prof Moez Chafra  
President of the University of Tunis El Manar

1. **Cross-Continental Partnership in Science and SDGs**

The University of Tunis El Manar signed cooperation agreements with Hohai University and the University of Macau during a visit by its president, Professor Moez Chakroun, to China.

The collaboration promotes student and faculty exchanges, joint research, and internships in water resource management, civil engineering, and environmental protection using innovative technologies, advancing Sustainable Development Goals (SDGs). This partnership strengthens academic ties with leading Chinese universities.



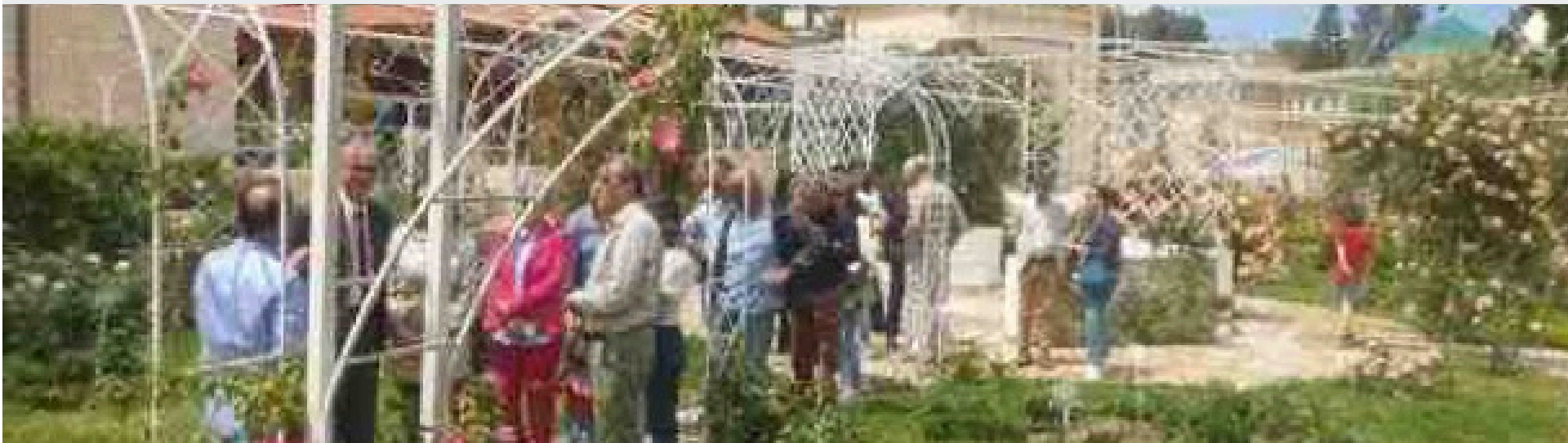
1. **Collaboration with Sustainability Resorts**

The University of Tunis El Manar is actively collaborating with sustainability resorts such as GDA Sidi Amor and other partners in Germany in the context of the Taaziz Program to promote environmental conservation and sustainable tourism. These collaborations focus on integrating sustainable practices into the hospitality and tourism industries, ensuring that resort operations contribute to environmental protection and community development.

Key areas of collaboration include:

- **Sustainable Tourism Practices:** Partnering with resorts to implement eco-friendly initiatives such as waste reduction, energy efficiency, and water conservation, enhancing the environmental sustainability of tourism.
- **Research and Innovation:** Engaging in research projects to develop new sustainable tourism models, focusing on minimizing the ecological footprint of resorts while providing educational opportunities for students.
- **Community Engagement:** Working together to ensure that local communities benefit from sustainable tourism through job creation, cultural preservation, and economic development.

These partnerships align with the United Nations Sustainable Development Goals, particularly SDG 8 (Decent Work and Economic Growth), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action). Through these collaborations, the University of Tunis El Manar aims to promote sustainability in both local and global tourism industries.





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### 3. The GEnMISTa'ziz project

The University of Tunis El Manar and its Engineering Schools ENIT, effectively collaborate with the University of Applied Sciences Zwickau (WHZ), Germany on SDGs implementation. The GEnMISTa'ziz project, funded by DAAD, focuses on advancing the Sustainable Development Goals (SDGs) through education, innovation, and industry partnerships. It aims to integrate green engineering and sustainable management into academic programs at UTM-ENIT, introducing multidisciplinary courses for undergraduate and master's students. The project includes seminars, conferences, and online workshops to align curricula with SDG priorities while fostering gender inclusion in green innovation fields. By strengthening ties between academia, industry, and NGOs in both countries, this partnership seeks to train engineers equipped to implement sustainable practices in industrial and social contexts, contributing to socio-economic and environmental progress.



### 4. Migrants project: cooperation agreement and final conference

The "migrants" project partners met in Palermo to evaluate phase one (2021-2023). A cooperation agreement was signed between the university of Tunis El Manar and its partners to strengthen collaboration.

The project aims to create an international, interdisciplinary master's program in migration studies: governance, policies, and cultures. This program, addressing migration and refugee-related challenges, is coordinated by Tunisian universities (Tunis El Manar, Tunis, and Manouba), in partnership with the university of Palermo, university of Westminster, university of Granada, and various experts and NGOs, including those working with refugees.

### 5. 12-the 11th international arab conference on quality assurance in higher education

The 11th International Arab Conference on Quality Assurance in Higher Education took place on November 8 and 9, 2023, in Tunisia, in partnership between the University of Tunis El Manar and the Secretariat of the conference at AlZarqa University in Jordan. The program included an opening session and six (6) workshops in the following areas: quality culture, quality management, quality assurance standards and their application mechanisms, governance and strategic planning, university ranking, quality in vocational and technical education, e-learning quality and performance evaluation, as well as innovation and excellence.

[Link: http://www.utm.rnu.tn/utm/fr/actualite-5776-11-eme-edition-du-congres-international-arabe-sur-l-assurancequalite-dans-l-enseignement-superieur](http://www.utm.rnu.tn/utm/fr/actualite-5776-11-eme-edition-du-congres-international-arabe-sur-l-assurancequalite-dans-l-enseignement-superieur)





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### 6. Academic Excellence-Collaboration with ALECSO

The University of Tunis El Manar (UTM) has a strong partnership with ALECSO (the Arab League Educational, Cultural, and Scientific Organization). Together, they have worked to enhance university rankings in the Arab region by focusing on academic excellence, research, and international collaboration. These initiatives aim to improve the visibility and competitiveness of Arab higher education institutions on the global stage.

Through this collaboration, many Arab universities, including UTM, have received training from reputable ranking organizations such as Times Higher Education and QS. This training has helped these institutions better understand global ranking criteria, enabling them to enhance their performance in key areas such as academic reputation, research output, and international collaboration, thereby strengthening their positions in both regional and global rankings.



### 7. WE4LEAD Project Launch: Advancing Gender Equality and Women's Leadership

On December 14, 2023, the University of Tunis El Manar, in collaboration with other Tunisian universities, hosted the launch conference for the "WE4LEAD" project at the Royal ASBU Hotel in Tunis. This Erasmus+ capacity-building initiative aims to enhance women's access to decision-making positions in higher education institutions (HEIs) and promote gender equality in governance. The project is co-led by Aix-Marseille University (France) and the Lebanese University, with partners from universities in Tunisia, Algeria, Lebanon, Italy, Spain, and other countries, focusing on fostering leadership opportunities for women across international higher education systems. The conference highlighted the importance of engaging stakeholders and raising awareness about the project's mission to advance gender equality in university leadership.



### 8. Recognition of NGOs effort and Contribution to "UTM Sans Obstacles"

The University of Tunis El Manar (UTM) honored Mr. Radhouane Naghmouchi, former Director-General of the International Center for the Promotion of Disabled Persons, for his dedication and collaboration in the success of the second edition of "UTM Sans Obstacles," held from May 26 to 28, 2023.



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**9. Partnership AUF-UTM for the Support of the New Student Entrepreneur Hub**

A partnership agreement was signed between the University of Tunis El Manar (UTM), represented by President Moez Chafra, and the Agence Universitaire de la Francophonie (AUF), represented by Mr. Mejdi Ayari, Senior Project Manager.

This collaboration aims to strengthen support for entrepreneurial initiatives, providing students with the opportunity to benefit from the advantages of the student-entrepreneur status. This partnership will contribute to fostering entrepreneurship among UTM students and preparing them for future ventures.



The Hackathon Hack&itches Organized by ISSBAT in Partnership with P2E-UTM and Impact Partner.

The P2E-UTM is excited to announce the signing of a partnership agreement between the University of Tunis El Manar (with its two components, the Student Entrepreneur Hub and ISSBAT) and Impact Partner. This collaboration reflects shared values and a commitment to fostering student entrepreneurship. The partnership aims to transform students into tomorrow's entrepreneurs, empowering them to build a sustainable future. Together, we are shaping the future of innovation and entrepreneurship.





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### 10. University of Tunis El Manar: Partnership with Enda Inter-Arabe

On November 29, 2023, Professor Moez Chafra, President of the University of Tunis El Manar, signed a partnership agreement with the NGO Enda Inter-Arabe. This collaboration between Enda Startup Studio and the University's Student Entrepreneur Hub (P2E UTM) aims to support student entrepreneurship, with a particular focus on empowering women entrepreneurs through training, coaching, and development.

The partnership aligns with SDG 4 (Quality Education), SDG 8 (Decent Work and Economic Growth), SDG 9 (Industry, Innovation, and Infrastructure), and SDG 5 (Gender Equality), promoting women's empowerment and fostering economic growth through innovation and entrepreneurship.



### 11. Partnership with African Universities

The University of Tunis El Manar (UTM) has established partnerships with several African universities to enhance faculty and student mobility, promote research collaboration, and foster mutual academic growth. These initiatives support SDG 4 (Quality Education) and SDG 17 (Partnerships for the Goals), with notable collaborations such as with the University of Gamal Abdel Nasser Conakry in Guinea, focusing on joint programs and academic exchanges.





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### 12. Triangular Partnership: Tunisia - Japan - African Countries in Medical Technologies

On December 14, 2022, a cooperation agreement was signed at the Higher Institute of Medical Technologies in Tunis (ISTMT) to launch a training program involving Tunisia, Japan, and African countries in medical technologies, supporting SDG 3: Good Health and Well-being.

The ceremony was attended by key figures including Mr. Malek Kochlef (Director-General of International Cooperation at MESRS), Professor Moez Chafra (President of UTM), Mr. Adel Moadhen (Director of ISTMT), Mr. Fethi Zagrouba (Director-General of the City of Sciences in Tunis), Mr. Shuhei Ueno (JICA Resident Representative), Mr. Daisuke Kawahara (Japanese Embassy), and Professor Hedi Trabelssi, the project coordinator at ISTMT.



### 13. Student Mobility through Dual Degree Agreement

UTM has signed a dual degree agreement with ISI and IUT - Sorbonne Paris Nord. This partnership allows UTM's second-year Bachelor's students to spend their third year at the host university and earn a dual Licence/Bachelor degree. The agreement promotes academic mobility, international collaboration, and cultural exchange.



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### 14. Highlights of the Info Session on Free Soft Skills Training and Job Search Techniques

An info session was held focusing on free training in soft skills and job search techniques, organized in partnership with CORP (Centre d'Orientation et de Reconversion Professionnelle) and supported by an NGO dedicated to youth development. The session provided valuable insights and practical tools designed to enhance professional development, with a focus on equipping participants with essential skills for the job market. This initiative aligns with SDG 8 (Decent Work and Economic Growth), promoting sustainable employment opportunities and fostering long-term career success.



### 15. Partnership with Brazilian Universities

A cooperation agreement was signed between the University of Tunis El Manar, represented by President Professor Moez Chafra, and the Brazilian Group of International Cooperation of Brazilian Universities (GCUB), represented by Mrs. Rossana Valéria de Souza e Silva.

The agreement aims to enhance faculty and administrative qualifications, promote student exchanges, and develop joint teaching and research programs. This partnership aligns with SDG 4 (Quality Education), SDG 16 (Peace, Justice, and Strong Institutions), and SDG 17 (Partnerships for the Goals), fostering mutual assistance, equality, and strengthening academic and research collaboration.



### 16. Partnership with Saudi Arabia

Professor Moez Chafra, President of the University of Tunis El Manar, hosted a delegation from Naif Arab University for Security Sciences, Saudi Arabia, led by Professor Abdulmajeed Albanyan.

The meeting aimed to explore opportunities for collaboration in education and scientific research, focusing on enhancing the partnership between the two universities, with an emphasis on advancing SDG 4 (Quality Education) and SDG 16 (Peace, Justice, and Strong Institutions).



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**17. Partnership with Shell Licenses and Vivo Energy**

The Institute of Higher Studies in Scientific and Technical Applications (ISSBAT) has formed a strategic partnership with Shell Licenses and Vivo Energy. This collaboration aims to drive research and development in the energy sector, focusing on sustainable energy solutions and reducing environmental impact.

The partnership promotes knowledge exchange, technical training, and collaborative research on energy efficiency, renewable energy sources, and sustainable practices. Through this alliance, students, researchers, and industry professionals will have the opportunity to engage in innovative projects that support Tunisia's energy transition and sustainability objectives.



**18. Cooperation Agreement with the National Institute of Nutrition and Food Technology**

The University of Tunis El Manar signed a cooperation agreement with the National Institute of Nutrition and Food Technology to collaborate on SDG 2 (Zero Hunger) and SDG 3 (Good Health and Well-being).

The ceremony was attended by University President Professor Moez Chakroun, Mrs. Najwa Ben Ammar, Director of the Institute, and Mrs. Jalila Al-Aati, Head of a Research Lab. This partnership aims to strengthen scientific collaboration, and Professor Chakroun honored Mrs. Ben Ammar and Mrs. Al-Aati for their contributions.



**19. Collaboration on Sustainability and University Branding**

On July 29, 2024, Professor Moez Chakroun, President of the University of Tunis El Manar, signed a framework cooperation agreement with Professor Mustafa Aydin, President of Istanbul Aydin University, in the presence of the Turkish Ambassador to Tunisia, Mr. Ahmet Misbah Demircan.

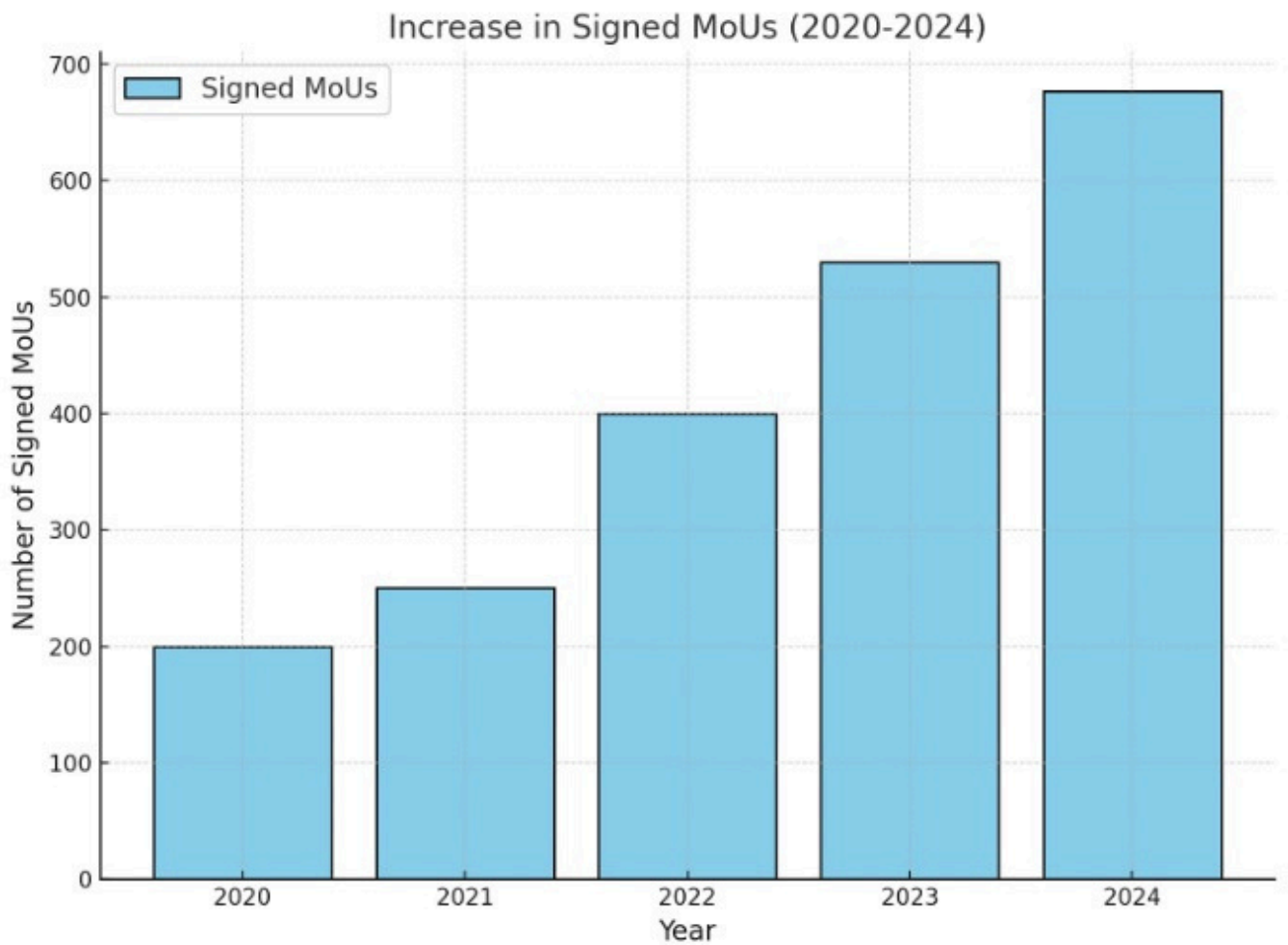
The agreement aims to foster collaboration in sustainability initiatives and enhance university branding. Discussions focused on scientific partnerships and exchanging expertise in fields such as medicine, engineering, humanities, economics, languages, and sustainable development strategies.

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**20. Celebrating Excellence in Science at the Science Day Ceremony**  
The University of Tunis El Manar hosted its annual ceremony to honor outstanding students and recognize the contributions of faculty, staff, and administrators. University President Professor Moez Chakroun praised the students' remarkable achievements in undergraduate, medical, and engineering programs, wishing them continued success.

The event featured a vibrant cultural dance performance, adding a festive touch to the celebration. It also welcomed numerous stakeholders and partners, including NGOs, alongside members of the local community and the students' families.

**EXTENDED NETWORK OF SUSTAINABILITY AND SDGS COLLABORATORS OVER TIME**



**THE IMPACT RANKINGS 2024 RESULTS**

**THE IMPACT RANKINGS 2024- 1ST IN TUNISIA, 1ST IN THE MAGREB**

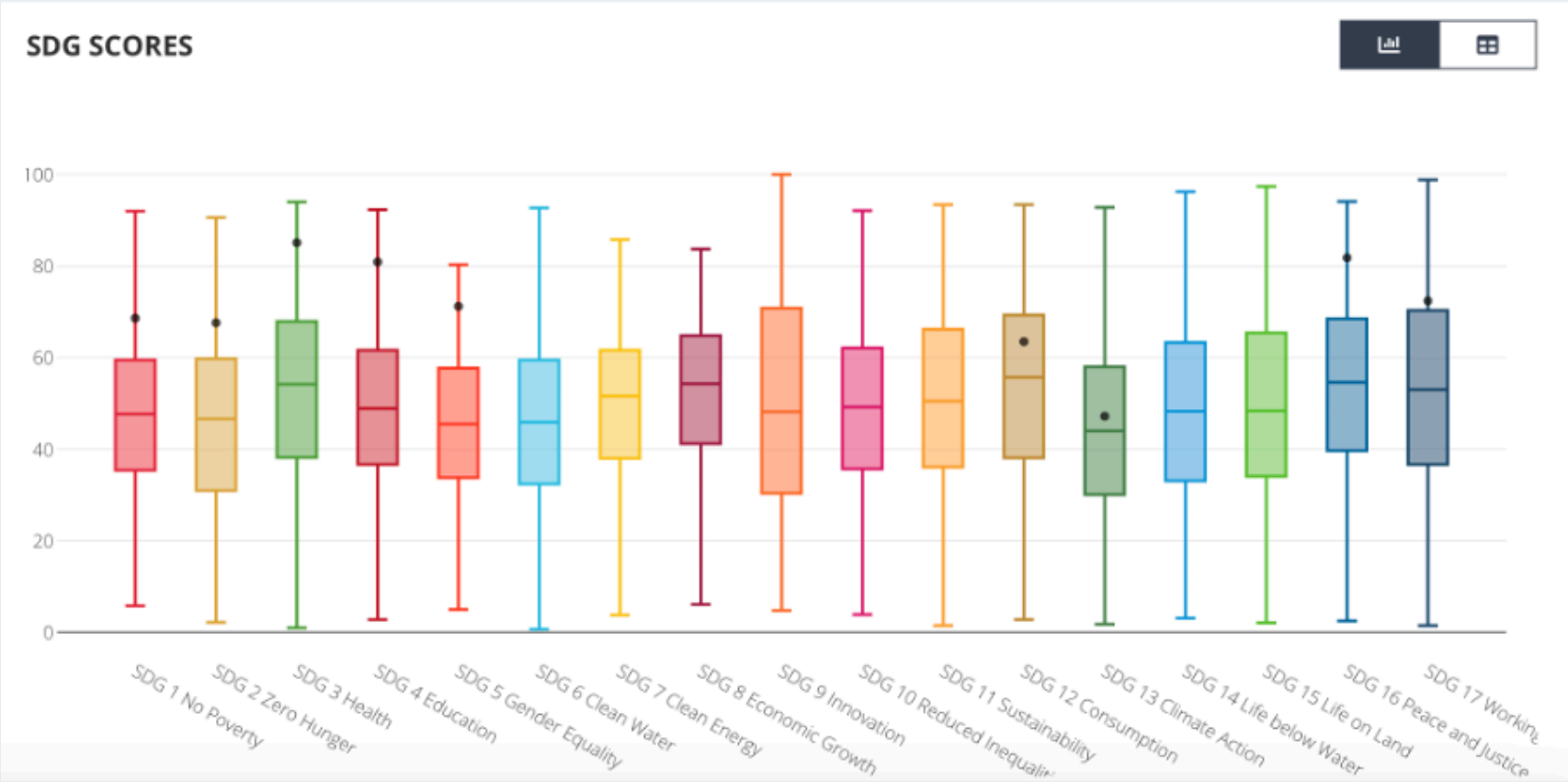




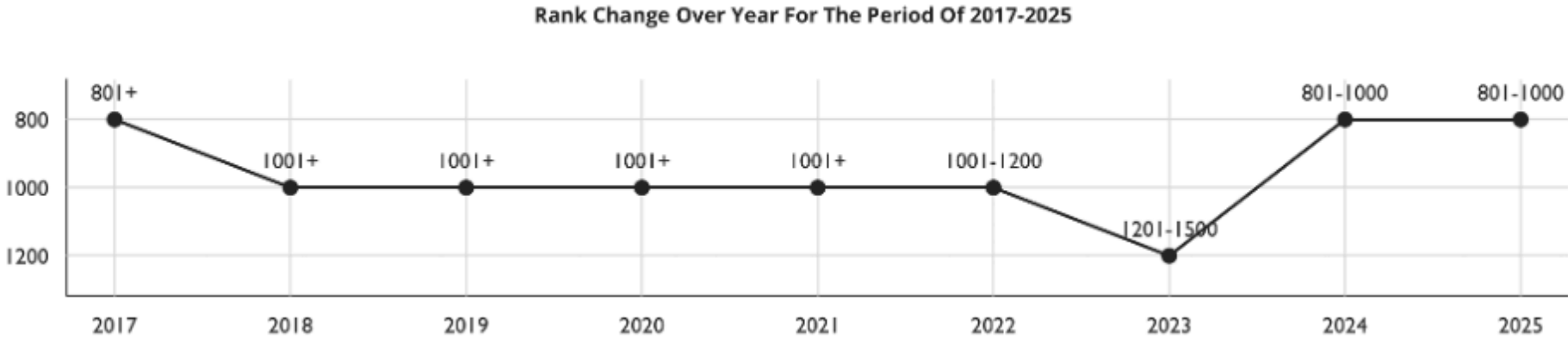
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THE IMPACT RANKINGS 2023 RESULTS

THE IMPACT RANKINGS 2023- 1ST IN TUNISIA, 1ST IN THE MAGREB



THE WORLD UNIVERSITY RANKINGS CHANGE OVER YEAR



ENGAGING WITH RANKINGS ORGANISATIONS AND CELEBRATING SUCCESS



# Sustainability Policy

## of the University of Tunis El Manar (UTM)

The University of Tunis El Manar (UTM) is committed to sustainability through a comprehensive strategy that integrates environmental, social, and economic initiatives across its campus, in collaboration with local authorities, international organizations, and academic networks. This report outlines UTM’s sustainability efforts, highlighting key achievements, partnerships, and forward-looking goals aligned with the United Nations’ Sustainable Development Goals (SDGs).

### Environmental Sustainability

#### Energy Management

UTM prioritizes renewable energy adoption and efficient energy systems:

- Solar Panels: Installed on faculty rooftops, generating 30% of on-site energy needs.
- Collaborations: Partnerships with the Council of El Manar City and the National Agency for Energy Management (ANME) enhance energy innovation, such as the implementation of solar-powered systems.
- Efficient Lighting: Motion-sensitive LED systems reduce energy waste across all buildings.

#### Waste Management

UTM has developed an integrated waste management program in collaboration with municipal services and international networks:

- Recycling initiatives include “Recycling Week” campaigns to promote sorting of plastics, paper, and e-waste.
- Example: The university leverages knowledge-sharing opportunities through its membership in the SDSN Network to adopt international best practices for waste management and circular economy models.

#### Water Conservation

UTM employs sustainable water management practices:

- Low-flow water systems have reduced water consumption by 40% at the Faculty of Medicine.
- Partnerships: Expertise on water management is shared with El Manar City and international partners, particularly through participation in the H2020 MADFORWATER project, which addresses water scarcity in the Mediterranean region.

### Sustainable Transportation

- The use of shuttles/busses have cut internal transport emissions by 25%.
- Bike Sharing: Many biking initiatives are launched. Joint programs with the city and many biking associations have encouraged eco-friendly commuting.
- Global Insights: UTM collaborates with the United Nations SDSN and the Global South Sustainability Network to develop frameworks for sustainable urban transportation. Many initiatives for eco cars and ecotransport production were launched at our School of engineering.

### Climate Action

#### Carbon Neutrality

UTM actively works toward reducing its carbon footprint:

- Tree-planting events, co-hosted with the Council of El Manar City, contribute to regional carbon offsetting.
- Smart meters and energy-efficient systems in research labs reduce electricity usage.
- International Collaboration: Through the SDSN, UTM participates in knowledge exchange forums to enhance carbon-neutral strategies and regional climate action plans.

#### Climate Education and Research

- Public workshops on climate resilience involve UTM faculty and city officials.
- Data Sharing: A climate monitoring station on campus, supported by the city council, informs urban planning and sustainability efforts.
- Horizon Europe Partnerships: UTM works with Erasmus+ PROMETEO and H2020 MADFORWATER to advance Mediterranean climate resilience and resource management

### Social Sustainability

#### Inclusivity

UTM fosters an inclusive academic and social environment:

- Scholarships support students from disadvantaged regions and sub-Saharan Africa.
- INSIDE Project: Dedicated Bachelor programs taught by vision-impaired staff and the establishment of a Disability Office ensure accessibility.



# Sustainability Policy

## of the University of Tunis El Manar (UTM)

- International Alignment: UTM’s inclusion policies are informed by global standards, shared through partnerships with the European Association for International Education (EAIE).

### Community Outreach

UTM serves as a bridge between academia and the community:

- Medical teams provide free health check-ups in underserved neighborhoods.
- Collaborative Events: Public lectures, organized with the city council, raise awareness of sustainable practices.
- Global Partnerships: Activities align with UNESCO’s Education for Sustainable Development framework to encourage lifelong learning and public engagement.

### Economic Sustainability

#### Green Economy

UTM promotes innovation in sustainability-focused entrepreneurship:

- The PAQ GREEN project at ISSBAT supports startups developing low-carbon technologies.
- Joint programs with the Council of El Manar City, such as the “Green Innovation Challenge,” foster local economic growth.
- Global Initiatives: UTM works with the SDSN Network and JAICA Japan to share successful models for scaling green technologies in developing economies.

#### Sustainable Procurement

Procurement policies prioritize eco-friendly and locally sourced products:

- University cafeterias source organic produce from regional farmers.
- Shared contracts with the city reduce costs for both UTM and the municipality.

### Campus Green Initiatives

#### Greening the Campus

- Campus redesigns, supported by the Council of El Manar City, integrate native plants requiring minimal water, such as olive and almond trees.
- Biodiversity zones, maintained by student clubs, support local wildlife.

### Green Building Standards

- New constructions adhere to national green building certifications, incorporating rooftop gardens for improved insulation.
- Global Collaboration: UTM adopts international best practices in sustainable construction through its affiliation with the International Green Campus Network (IGCN).

### Governance and Reporting

#### Sustainability Board

- UTM’s Sustainability Board includes representatives from the Council of El Manar City to ensure urban and campus sustainability goals are aligned.
- Quarterly evaluations track progress in energy usage, waste management, and inclusivity initiatives.

#### Reporting and Transparency

- The annual “Green Forum,” co-hosted by UTM, the Council of El Manar City, and international organizations like the SDSN, shares sustainability achievements and future strategies.
- Global Recognition: UTM contributes to international sustainability reporting platforms, such as the Times Higher Education Impact Rankings.

### Collaboration and Partnerships

#### Local and Regional Collaborations

UTM partners with the Council of El Manar City to develop shared solutions for waste management, urban greening, and community outreach.

#### International Collaborations

UTM’s sustainability initiatives are enriched by global partnerships:

- SDSN: Supports UTM in aligning its sustainability strategy with the SDGs and facilitates international knowledge sharing.
- Erasmus+ Projects: PROMETEO, MADFORWATER, and INSIDE provide funding and expertise to enhance education, research, and infrastructure.
- UNESCO: Collaborations on education and community engagement align with global sustainable development frameworks.
- Chinese Academy of Sciences: Joint research projects advance low-carbon technologies and renewable energy solutions.

# The University of Tunis El Manar in the Service of Sustainable Development

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