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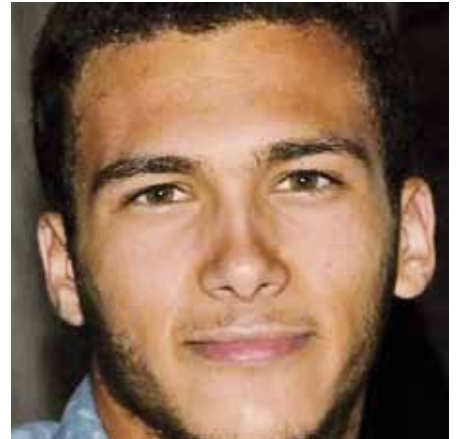
**SMU**

**SOUTH MEDITERRANEAN UNIVERSITY**  
First English-Speaking Educational Hub in Tunisia (Since 2002)

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**MEDITERRANEAN  
INSTITUTE OF TECHNOLOGY**

The Unique English-Speaking Engineering School in Tunisia



## President's Message

« We strongly believe that considering the strategic location of our country in the heart of the Mediterranean, the diversity of its cultural heritage, being a gateway to the MENA countries and a linking pin between Europe and Africa, we ambition to make Tunisia a regional hub of educational excellence offering world-class programs to its students. »

**Dr. Mahmoud Triki,**  
SMU President



## Dean's Message



« The Mediterranean Institute of Technology – MedTech at South Mediterranean University (SMU), together with its sister institution (MSB), aspire to be a regional hub of excellence in Innovation & Entrepreneurship Education. We welcome students from Africa and the Mediterranean, thus contributing to the sustainable development of the region and to the integration of African economies.

Thanks to its distinguished faculty, state-of-the-art Labs and facilities, project-based teaching methods, and a rich network of partnerships, MedTech offers a world-class education in disciplines with highly promising employment & Entrepreneurship opportunities. »

**Dr. Khalil Amiri, Dean, MedTech,**  
PH.D. Carnegie Mellon University (USA)

## MedTech, a World-class Education, a Stimulating Learning Environment



### Areas of Specialization :



**10**  
Year Experience

Professors with ~10 year experience in academia & industry post-Ph.D.

**1**  
First

- English-Speaking Engineering School in Tunisia  
- To offer Renewable Energies Specialization

**94%**  
PH.D.

Professors with Ph.D.'s from prominent universities

## Why Choose MedTech?

- **PARTNERSHIPS WITH INTERNATIONAL UNIVERSITIES** : Opportunities to benefit from visiting professors, exchange programs, joint research projects, and the option to continue education at Top-Ranked institutions in the US, Canada, and Europe.
- **MODERN TEACHING METHODS** : Project-based learning, open innovation workspaces, extensive practical experience in modern laboratories, an open and a collaborative relationship with the industry.
- **HIGHLY QUALIFIED PROFESSORS** : Experienced faculty, all holding PhD's from world-class universities.
- **STATE OF THE ART FACILITIES AND LABORATORIES** : Physics, Chemistry, Electronics & Computer labs besides Partnership agreements through which students can engage in real-world project-based learning.
- **WELL-ROUNDED TRAINING IN BUSINESS MANAGEMENT, GOVERNANCE, AND ETHICS** : Successful engineers require a diverse set of competencies that extend to communication skills, Business management, and an appreciation of the regulatory environment and of the interplay between ethics and modern technologies.

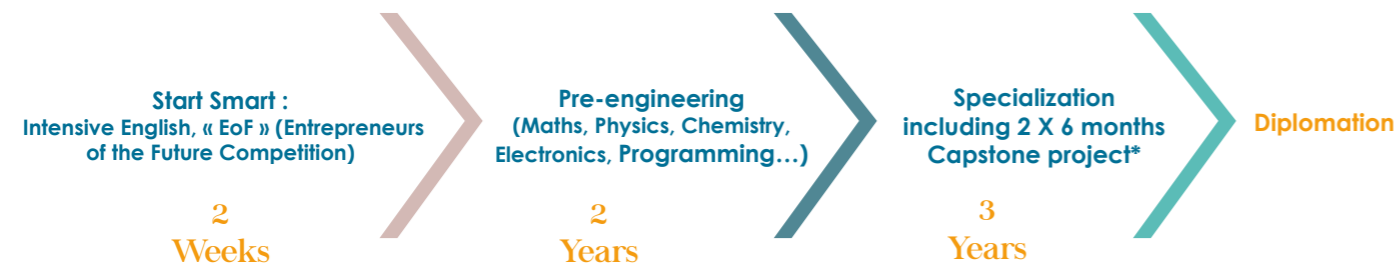
# An Engineering Program Taught in English Opening Doors to a Global Career



Training engineers to be effective in today's increasingly complex and innovation-driven business environment goes beyond the traditional subject-based instruction and requires multi-disciplinary competency-based approaches to higher education with a focus on developing creative problem solving and entrepreneurship skills.

The mission of MedTech is to train highly effective engineers capable of contributing and leading innovative ventures in today's globalized world.

## Format & Structure



\* The Capstone project is based on an internship conducted in :

- An industrial institution chosen by the student and approved by the academic advisor
- An institution selected from the extended the network of MedTech's partners, in Tunisia or abroad
- The MedTech incubator : students are hosted in our incubator and guided in developing their innovative ideas by Medtech faculty and entrepreneurs from the industry.

## Areas of Specialization

### Software Engineering

- Programming languages & Operating systems
- Object-oriented analysis and design
- Software architectures, design patterns and frameworks
- Software quality assurance and project management
- Big Data and Cloud Computing

### Computer Systems

- Digital system design
- Computer Architecture
- Embedded Systems
- Operating Systems & Computer networks
- Robotics and Artificial intelligence

### Telecommunications

- Digital Signal Processing and Communications
- Network architectures and protocols
- Networking design, integration, and management
- Information and network security
- Wireless networks
- Regulation and governance

### Renewable Energies

- Photovoltaic systems
- Hydro-power and geothermal energy
- Biomass and biofuels
- Energy storage, conversion, and transportation
- Power systems, smart grids and grid security
- Energy policy, energy management and auditing



All Engineering students, regardless of specialization, are enrolled in courses on the following subjects:

- Microeconomics and Macroeconomics
- Accounting and Finance
- Marketing
- Operations Management
- Entrepreneurship
- Engineering Ethics



# MedTech Highly Qualified Professors\*

## **BILEL JAMOSSI : PH.D. PENNSYLVANIA STATE UNIVERSITY**

Chief, Study Group Department, International Telecommunications Union

## **CHIRAZ BEN ABDELKADER : PH.D. UNIVERSITY OF MARYLAND**

Assistant professor, ENSI

## **FAKHREDDINE KARRAY : PHD UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN**

Professor, University of Waterloo

## **JALEL REJEB : PH.D. SYRACUSE UNIVERSITY**

Associate professor, San Jose State University

## **KHALIL AMIRI : PH.D. CARNEGIE MELLON**

Dean and professor at MedTech, with over 13 years of academic, research and industrial experience in the US and Europe in Data Management, Software Systems, and Financial Services.

## **SADOK KALLEL : PH.D. STANFORD UNIVERSITY**

Widely recognized scholar who taught at the University of British Columbia & University of Lille.

## **SLIM BELHAIZA : PH.D. ECOLE POLYTECHNIQUE DE MONTREAL**

More than five years of international education experience in mathematics, applied mathematics, game theory and operations research.

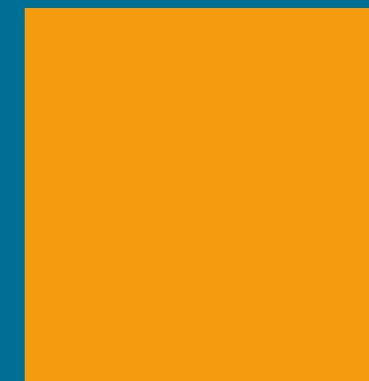
## **TALEL ABDESSALEM : PH.D. UNIVERSITE PARIS-DAUPHINE**

Professor at Telecom Paris, Chair "Big Data and Market Insights"

## **ZINA BEN MILED : PH.D. PURDUE UNIVERSITY**

Associate professor, with more than 10 years of international education and consulting experience in integrated and enterprise-wide software systems.

\* The complete faculty list is available at [medtech.tn](http://medtech.tn)



*« At MedTech, we share a mindset of excellence where teachers transfer not only theoretical knowledge and practical know-how, but also valuable human and social skills. Our devoted teachers rely on their rich experience acquired in the best Universities around the world to train a generation of future leaders comfortable with both the theoretical and practical aspects of their fields of study and ready to become valuable additions to their work environments »*

**Slim Belhaiza, Ph.D. Ecole Polytechnique de Montréal and Associate Professor of Mathematics at MedTech**

# MedTech Masters' Program, Advanced Trainings in Emerging Technologies

# Masters in Systems & Software Engineering, Where Innovation Meets Entrepreneurship



MedTech offers a Master in Systems and Software Engineering which combines a solid training in software engineering with systems engineering concepts and techniques.

Guided by professors who are both outstanding researchers and industry experts, the Master in Systems and Software Engineering is a strong, foundational and challenging curriculum, with the opportunity to specialize in cutting edge areas of specialization: Data Analytics, Mobile Technologies or Financial System Engineering,

Data Analytics & Business Intelligence

Mobile Software Engineering

Financial Systems Engineering

## Data Analytics and Business Intelligence (DABI)

The convergence of structured and unstructured Data from various sources (Websites, Social Networks, E-commerce, Mobile devices) gives rise to massive data repositories which can be exploited to:

- Grow market share, personalize marketing, introduce innovative products
- Detect trends and anticipate changes
- Optimize operations, detect fraud and enhance security

The Master program in DABI provides you with the knowledge of recent advances, tools, techniques, and best practices in the field of data analytics and business intelligence.

## Mobile Software Engineering (MSE)

This specialization focuses on concepts and techniques essential to the development and management of mobile applications and services. Mobile computing is on the rise which leads to a substantial demand for mobile technology experts.

## Financial Systems Engineering (FSE)

This specialization offers a combined training in the principles of banking and finance with a solid training in the information and data management technologies and techniques underlying banking operations and financial services.

# Program Knowledge Areas

## Data Analytics & Business Intelligence (DABI)

- Quantitative Models & Algorithms for information processing
- Data Management, Mining & Analytics
- Big Data Technologies & tools
- Advanced Web Architectures & Systems
- Information Security & Governance
- Business Applications

## Mobile Software Engineering (MSE)

- Internet Technologies & Service Architectures
- Mobile Services & Platforms
- Content & Media Management
- Information & Network Security
- User Interface Design & Implementation

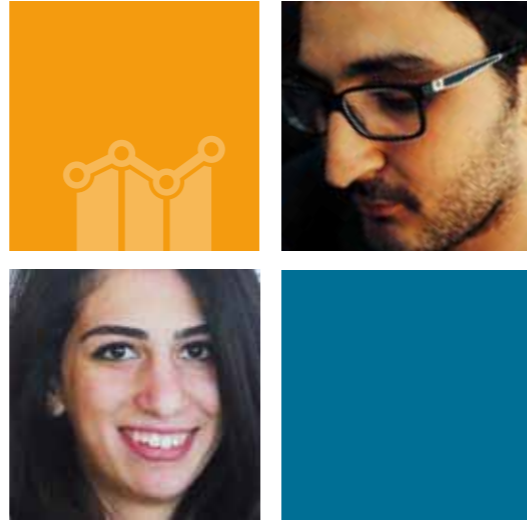


## Financial Systems Engineering (FSE)

- Financial Institutions & Markets
- Financial Information Systems
- Financial Software Engineering
- Database & Distributed Systems
- Information & Network Security
- Data mining for Finance



# MSB-MedTech Career Center Your Bridge to The Professional World



MSB-MedTech Career Center organizes :

- Guest Speakers events with professionals relaying their success stories.
- Workshops Series : « Choose your major », « Writing CV and Cover Letter » among others.
- Company visits aiming at helping students to discover the Business World.
- On campus recruitment and career fairs facilitating internship & job search.

MSB-MedTech Career Center maintains close collaboration with major multinational and national companies such as : NOVARTIS, DELOITTE, SWICORP, OOREDOO, UNILEVER, REKRUTE, MICROSOFT

## Admission & Enrollment



- Proficiency in the English language (students who do not satisfy the English Language requirement may be asked to enroll in an intensive English program at LCI\*)
- To join the Pre Engineering :
  - High-school diploma (Baccalaureate or equivalent)
- To join the Master program :
  - A university diploma (bachelor degree) in a quantitative subject
  - Professional experience is an added asset

\* (The Language & Culture Institute within SMU)

## They Say It their Way

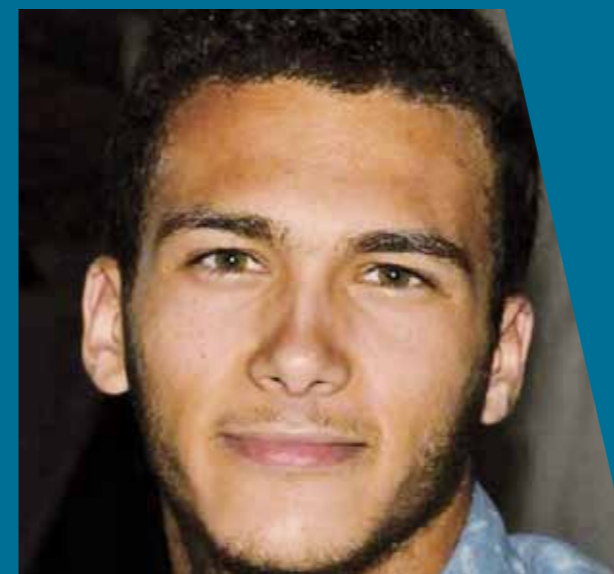


« I had my Baccalaureate with Honors (14/20) from « Lycée Menzah 6 » and I went to London to study Renewable Energy Engineering. I started studying intensive English then I heard of MedTech, the only English-speaking school that offers a Renewable Energy Engineering specialization. I visited the school, was very welcomed by the Dean, I appreciated the facilities and now I'm enjoying the pace of study at MedTech and the North-American teaching style. So Why be far away from Tunisia if I have what I need right here ? »

**Rim Kriaa, MedTech student**

« I had my Baccalaureate diploma with Honors from « Lycée Ennar ». My « orientation » result was to one of the best Public Business School in Tunisia, but I felt it was not my cup of tea, then I heard about MedTech in an Education Fair « Perspectives ». I visited to find out more about it, and I decided to join the school because it's the unique English-Speaking Engineering School in Tunisia and I believe in English as the key to International Opportunities. In fact, now I'm impressed by the quality of the professors and their attentiveness »

**Fatma Jlili, MedTech student**



« I had my Baccalaureate with Honors from Lycée Pères Blancs. I wasn't planning to join a private university, but, I was disappointed by the orientation result, I didn't get into the « INSAT » as I wanted, so I decided to look for other opportunities. I heard about MedTech as the unique Engineering School in Tunisia, I visited the school and I was fascinated by the Labs, the Facilities and I decided to join the trip. I did not regret my choice, I'm enjoying the experience especially the fact that it will allow me to pursue the Renewable Energies Engineering program »

**Ahmed Aziz Ouertatani, MedTech student**



# MedTech Professional Education, to Remain at the Forefront of Technological Innovation

## G.E.S.T Seminar on BIG DATA For Working Professionals



MedTech organizes Seminar Series for technology managers, entrepreneurs and professionals to help them remain at the forefront of technological, systems and service innovation in their fields of practice.

The most-recent edition of the "GEST" (Gestionnaires et Entrepreneurs du Secteur des TIC) Seminar focused on Big Data and Business Intelligence. The seminar is Taught in French to maximize the benefit to working professionals.



*Pr. Edouard DIAS, Associate professor at HEC Paris, and ex E-business Strategy Manager at L'OREAL*

The Seminar GEST, BIG DATA (Programme pour Gestionnaires et Entrepreneurs du Secteur des TIC's) is recommended for all Executives from various functional areas of Business :

- IT
- Marketing
- Financial & Accounting
- Supply Chain & Operations Management

GEST aims at enhancing the Decision Making-skills based on optimal BIG DATA use



*« GEST, BIGDATA Seminar is a foretaste, a projection of the future to succeed. A first edition which fully met my expectations from the executive education at MedTech. It is simply an open mind, a know how and many tools and techniques in the BIG DATA and BUSINESS INTELLIGENCE field. Made easier to understand thanks to the talented and highly qualified professors bringing their international expertise. I recommend this program for all those who are looking for innovative ways to develop their Business. »*

**Sami MEKSI, General Manager at ERRAFAHA Distribution - SFBT Group**





MSB

Business Administration

MEDTECH

Engineering

LCI

Language & Culture

## CONTACTS



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