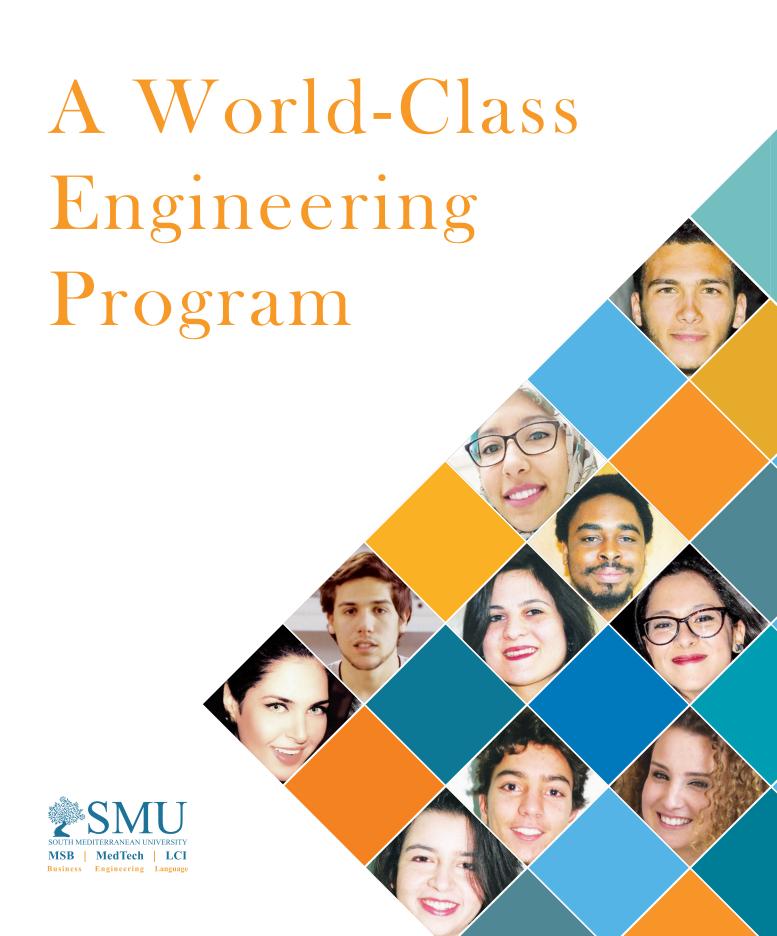
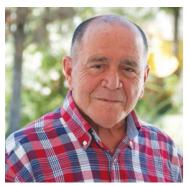


The Unique English-Speaking Engineering School in Tunisia



President's Message



The Mediterranean Institute of Technology (MedTech) strengthens the strategic positioning of South Mediterranean University (SMU) as a pluri-disciplinary institution. Beyond organizing its programs in English, MedTech offers programs in areas of specialization much in demand in the job market using the same academic standards of top ranked North American and European engineering schools. Its partnership with the prestigious University of Michigan at Dearbon (USA) offers the possibility of dual degrees. Being located on the same campus as the Mediterranean School of Business (MSB) makes it possible to organize joint courses and

favors the interaction among students of both schools. We consider that this mixing of students generates synergies mutually beneficial to our engineering and business students alike that are conducive to the launch of joint startups. I invite you to visit us at SMU and explore the world of MedTech.

Dr. Mahmoud Triki, SMU President

Dean's Message

At MedTech our philosophy of higher education is driven by a three-fold strategy serving one central mission of placing students in the center of all learning and teaching activities.

The first element of MedTech policy is to provide students with a personal exploratory learning environment. Our course offering and training is driven by student-centered learning environment, in which students can contribute to the content of teaching, the learning process and learning objectives themselves. A key element of MedTech curriculum is the focus on problem-based and project-based learning. All students are trained in taking responsibility for their learning and the teachers, supervisors and the educational environment are all resources in this process.



The second element is to foster the knowledge triangle between education, innovation and research by encouraging faculty and students at all levels to be creative independent thinkers and engage together in innovative projects and activities in and out of the classroom. MedTech as a whole is committed to providing a technical and social setting that can help improve the contribution of research and innovation to the resolution of key societal challenges.

The third element of MedTech strategy is to maintain strong national and international collaboration with industrial and academic stakeholders. The close relationship to industry is an important profile of MedTech. Our students are offered an academic environment in which theoretical knowledge is important – and at the same time an environment in which they grow as professional practitioners. We believe that this exchange of experience provides our students with better employment possibilities and an excellent opportunity for creating new business startups. Our collaboration with academic partners keeps us up to date with the latest pedagogical innovations and at the forefront of accredited educational programs.

Dr. Imed Hammouda, Dean of MedTech PH.D. TAMPERE UNIVERSITY OF TECHNOLOGY, FINLAND

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, sysetms 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 Pari: 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:

- 11
- 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

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



Areas of Specialization:

Software Engineering Renewable Energies
Engineering

Computer Systems
Engineering

First & Only

English-speaking engineering school in Tunisia

First & Only

School offering an Engineering Diploma in Renewable Energies 94% PH.D.

Professors with Ph.D.'s from prominent universities

3+2

Joint Diploma Program

Possibility of Dual Degree with the University of Michigan, USA

Why Choose MedTech?

- MODERN TEACHING METHODS: project-based learning, open innovation workspaces, extensive practical experience in modern laboratories, an open and collaborative relationship with the industry and research institutions.
- HIGHLY QUALIFIED PROFESSORS: experienced faculty, all holding PhD's from prestigious universities.
- STATE OF THE ART FACILITIES AND LABORATORIES: Laboratories in the major scientific fields (Chemistry, computer science, electronics, Physics..)
- 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 the interplay between ethics and modern technologies.
- POSSIBILITIES OF DUAL DEGREES: opportunities to benefit from visiting professors, joint research projects and joint diploma partnership with the University of Michigan, a Top-Ranked university in the USA







Highly Qualified Professors*

ADNANE ABDELGHANI: PH.D. ECOLE CENTRALE DE LYON, FRANCE

Adjunct Professor of Physics. Internationally recognized researcher in nanotechnology. President's prize for scientific research, 2015

BILEL JAMOUSSI: PH.D. PENNSYLVANIA STATE UNIVERSITY, USA

Visiting faculty. Chief, study group department, international telecommunications union.

CHIRAZ BEN ABDELKADER: PH.D. UNIVERSITY OF MARYLAND, USA

Assistant Professor, ENSI

FIRAS JABLOUN: PH.D. UNIVERSITY OF MCGILL, CANADA

Associate Professor of electrical engineering

HEGER ARFAOUI: PH.D. UNIVERSITY OF PARIS-VII, FRANCE

Assistant Professor of Computer Science

IMED HAMMOUDA: PH.D. TAMPERE UNIVERSITY OF TECHNOLOGY, FINLAND

Professor and Dean, seventeen years of experience in managing educational programmes and professional teams in Europe

ISSAM OUESLATI: Ph.D & HABILITATION, UNIVERSITY OF STRASBOURG, FRANCE

Associate Professor of Chemistry, thirteen years of experience post Ph.D. in Europe including at IPN incubator, MSD research, and University College London.

LEILA COSTELLE: PH.D. UNIVERSITY OF HELINSKI, FINLAND

Assistant professor of Material Physics and Renewable Energies

MAROUENE KESSENTINI: PH.D. UNIVERSITY OF MONTREAL, CANADA

Visiting Faculty. Assistant professor of Software engineering, University of Michigan, USA

MOHAMED AMIN BEN SASSI: PH.D. IN APPLIED MATHEMATICS FROM THE UNIVERSITY OF GRENOBLE, FRANCE

Assistant Professor of Applied Mathematics, Post Doctoral Research at the University of Vienna, Austria and the University of Colorado Boulder, USA

NOURA BACCAR: PH.D. UNIVERSITY TUNIS EL MANAR, NATIONAL ENGINEERING SCHOOL OF TUNIS

Assistant Professor of Electronic Engineering

RAJA GHOZZI: PH.D. UNIVERSITY OF CALIFORNIA-DAVIS, USA

Adjunct Associate Professor of Electrical Engineering

SADOK KALLEL: PH.D. STANFORD UNIVERSITY, USA

Visiting Professor of Mathematics. Widely recognized scholar with previous positions at the university of British Columbia and University of Lille.

YARA EL GHALAYINI: PH.D. UNIVERSITY OF GRANADA, SPAIN

Assistant Professor of Applied linguistics

* The complete faculty list is available at medtech.tn

MedTech is one of the few places in Tunisia where teaching is equally based on high academic standards on one hand and the continuously rising demands of the job market on the other. As a Mathematics and Computer Science teacher, I try not only to train hands-on engineers, but also to foster creative minds and curious individuals. I thrive on giving my students in-depth knowledge of theoretical foundations alongside a set of technical skills and a broad understanding of various complex fields, encouraging them to sharpen their minds and prepare for their future.»

Heger Arfaoui, Med Tech professor

How to Apply?

ADMISSION PROCESS Submission of Application Form & Documents



ADMISSION CRITERIA

Academic Background

English proficiency & high school diploma

Motivation

Adaptability and flexibility in a diversified environment

Ability to Contribute

Your ability to contribute to the MedTech experience during and after the program

LANGUAGE POLICY

MedTech Engineering Program is taught exclusively in English. Therefore, fluency is a prerequisite. If English is neither your mother tongue nor the language in which your last degree was taught, you will need as a first step either to take our INTERNAL ENGLISH PROFICIENCY TEST, or to bring a certification of proficiency in English such as the TOFEL or IELTS.

FINANCING

Most students cover the costs of fees and living expenses through a combination of:

- Family Support
- Interest-free loans,
- Scholarships: MedTech grants merit scholarships to outstanding students who cannot afford the tuition fees in order to promote academic excellence and diversity scholarships to further enhance the cultural and international diversity of the SMU campus.

APPLICATION DEADLINES

The Engineering Program has one intake per year: September Session

We operate on a rolling basis; however, competition is high so the earlier you gain admission, the more time you will have to secure financing, arrange logistics, and most importantly improve your English possibly at the LCI, the Language & Culture Institute at SMU

VISIT US ON CAMPUS OR ONLINE AND STAY TUNED THROUGH OUR SOCIAL NETWORKS

We would be delighted to meet you at MSB-MedTech Campus on LAC 2.

You can start your application through these links:

goo.gl/ITU7vu: to pre apply quickly and get more information about our Engineering Program admission process goo.gl/gVr871: this is our official online application form.

«I had my baccalaureate in 2014 with distinction (18.11) from the Sfax Pioneer School. I hesitated at first about what to choose as an orientation so I chose the preparatory program for "Les Grandes Ecoles" at ESPRIT. I studied there for 1 year before I heard of MedTech as the first English speaking Engineering school. I decided to jump on the opportunity and join this prestigious university with highly qualified professors holding PhDs and applying a North-American educational pedagogy. I wanted to pursue my studies at MedTech to obtain a Diploma in Renewable Energy Engineering. I am really impressed with the quality of the training as it is established with a lot of project-based learning that will prepare us for a global career. »

Soumaya Rebai, 1 st Year Software Engineering

An Engineering Program Taught in English, Key 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

Start Smart : Intensive English, « EoF » (Entrepreneurs of the Future Competition)

weeks

Pre-engineering (Math, Physics, Chemistry, Electronics, Programming...)

Years

Specialization including 2 X 6 months Capstone project*

Years

Graduation

* 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 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.

Undergraduate Engineering Curriculum

Pre-Engineering (2 Years)

Programming Fundamentals

- Procedural and Object-Oriented Programming

Mathematics

- Calculus, Linear Algebra, Differential Equations
- Probability, Statistics, Discrete Structures

Chemistry

- General and Electro Chemistry, Organic Chemistry

Electrical and Computer Engineering Basics

- Circuit Analysis, Digital Systems, Digital System Design Lab
- Computer Organisation & Design

Physics

- Mechanics, Thermodynamics, Electricity, Magnetism
- Optics, Wave Motion

Written and Professional Communications

- Academic English, Composition, Technical Writing
- Social Sciences
- Microeconomics, Macroeconomics
- Governance and Citizenship, Humanities Seminar $\,$

Projects

- Creative Design Project

"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 atMedTech and the North-American teaching style. So Why be far away from Tunisia if I have what I need right here."

Rim Kriaa, 1 st Year Renewable Energies Engineering



Areas of Specialization I Computer Systems Engineering

Junior Year

Mathematical Foundations

- Data Structures & Algorithms
- Graph Theory and Applications
- Multivariable Calculus

Software Systems

- Operating Systems
- Intro to Software Engineering
- Database Management Systems

Computer and Embedded Systems

- Computer Systems Engineering
- Signals and Systems
- Communications Networks
- Electronic Devices and Circuits I

Business Mgt & General Education

- Introduction to Management

« I've always been planning to study in English after getting my Baccalaureate.

When I first heard of MedTech, I was excited and I decided to apply. The school offers a very interesting yet challenging curriculum.

Having been here for 3 semesters already, I can say that the American system is very rewarding and the school's facilities are top level.

MedTech offers a one of a kind 3+2 joint diploma program in partnership with the University of Michigan, one of the top Engineering schools in the world.

All students here are working hard for a chance to reach this goal and continue their studies at Michigan. »

Yassine Chaouch 1 st Year Computer Systems Engineering

Typical Careers

Possible Industries

- Hardware & Embedded System Development
- Networks, Telecommunications, Data centers, Security
- Manufacturing, Automation, Robotics
- System Integration, Consulting, Research

Typical Responsibilities

- Design, test, & evaluate computing system
- Develop and improve components
- Research, refine & improve computing system

Senior Year

Software and Distributed Systems

- Computer Networks
- Computer and Network Security
- Distributed Computing (web, cloud)
- Computer Architecture

HW and Embedded Systems

- Advanced Computer Architecture
- Advanced Digital System Design
- Embedded Systems
- Digital Signal Processing
- Robotics / Feedback Control Systems

Business Mgt & General Education

- Introduction to Finance
- Effective Technical Communication
- Introduction to Engineering Ethics

Final Year

Final Year Project

- Technology Entrepreneurship
- Technical Communications

Electives

- Artificial Intelligence, Digital Signal Processing, Reliable Computer Systems

Areas of Specialization II

Software Engineering

Junior Year

Mathematical Foundations

- Graph Theory and Applications
- Data Structures & Algorithms
- Algorithms & Complexity
- Multivariable Calculus

Software Systems

- Operating Systems
- Principles of Programming Languages
- Database Management Systems

Software Engineering

- Intro to Software Engineering
- Mobile Software Engineering
- Human Computer Interaction

Business Mgt & General Education

- Introduction to Management

Senior Year

Software and Distributed Systems

- Computer Networks
- Computer and Network Security
- Distributed Computing (web, cloud)

Software Engineering

- Software Design and Architecture
- Software Engineering Tools
- Software Process & Project Mgt.
- Software Quality Assurance
- Data Analytics

Business Mgt & General Education

- Introduction to Finance
- Effective Technical Communication
- Introduction to Engineering Ethics

Final Year

Final Year Project

- Technology Entrepreneurship
- Technical Communications

Electives

- Artificial Intelligence, Big Data, Graphics, Financial Software Engineering



" Last year, I was registered in the preparatory program for "Les Grandes Ecoles". And, because MedTech accepts students who meet the admission requirements whatever their backgrounds, I am now following a completely different academic and career path.

The transition from the French to the American education system was a radical change for me. At MedTech, students engage in a really unique learning experience where they can develop their autonomy and creativity in a stress-free environment. Moreover, MedTech is literally opening new doors to fascinating international opportunities by giving students the chance to continue their education at the University of Michigan, one of the top-ranked universities in the U.S. »

Chaima Abid 1st Year Software Engineering

Typical Careers

Possible Industries

- Application, Web, and Systems Development
- Mobile, Security, Internet of Things
- Big Data, Cloud, Health Informatics
- Games, Finance, Consulting, Research

Typical Responsibilities

- Software design, implementation, and testing
- Software project and lifecycle mangagement
- Research, evaluate & improve Software Systems



Areas of Specialization III

Renewable Energy Engineering

Junior Year

Thermo Fluid Mechanics

- Thermodynamics
- Fluid Mechanics
- Intermediate Heat Transfer

Electrial Engineering

- Electronic Devices and Circuits
- Signals processing
- Electrical Power Systems

Energy Engineering

- Energy conversion and storage
- Energy efficiency and auditing

Multivariable calculus
Solid state physics
Introduction to Management

Senior Year

Renewable Energy Systems

- Electromechanical Conversion Systems
- Photovoltaic systems
- Biomass and bioenergy systems
- Fuel Cells

Power Systems

- Feedback Control Systems
- Smart Grids

Business Mgt & General Education

- Introduction to Finance
- Effective Technical Communication
- Introduction to Engineering Ethics

Final Year

Final Year Project

- Technology Entrepreneurship
- Technical Communications

Electives

- Energy Policy and Markets,
- Sustainable Resource Management



Typical Careers

Possible Industries

- Wind, Hydro, & Solar Energy Conversion Systems
- Biomass, Bioenergy, Fuel cells
- Energy Efficiency Auditing and Consulting
- Energy Policy, Regulation, and Markets

Typical Responsibilities

- Design, test, & evaluate energy conversion systems
- Manage, maintain, and operate installations
- Evaluate, plan, and audit





DUAL DIPLOMA PARTNERSHIP

Your Gateway To a World-Class Engineering Education



3 Years at Medtech + 2 Years at U. Michigan (Dearborn)

ENGINEERING DIPLOMA (MEDTECH)
+ MASTER OF SCIENCE (U. MICHIGAN)

MEDTECH and University of Michigan Dearborn established a collaborative education initiative defined as "3+2 Dual Diploma Program" by which qualified students enrolled at MEDTECH, after successfully completing the first 3 years of their undergraduate curriculum, will be accepted into selected fields of study in the College of Engineering and Computer Science at UMD for the next 2 years.

At the end of the five years, students earn both an Engineering Diploma from MedTech and a Master's Degree from the University of Michigan.

According to this agreement, MedTech students will enjoy a significant reduction (80% reduction in the difference between out of state and in-state tuition fees)

A Vibrant Student Life



Student Clubs Activities

- TEDx
- MedTech Robotics Club
- Google Students Club
- Debate club
- Young Professional Club
- Waves
- EvenTech
- Photography Club
- Sports Club









"Just like many other students, I was not satisfied with my orientation results, so I decided to look into pursuing my dream outside of the country. I took the SAT exam and my score got me accepted into a nuclear engineering program abroad. Luckily, I found out about Medtech weeks before leaving and I was amazed. A semester later at Medtech I feel assured about making the right decision I never thought that in Tunisia I would be able to find an English-speaking program that would give me such a great push in such a short time."

Imen Jaouadi - 2nd year Pre-Engineering

SMU Career Center Your Bridge to the Professional World

WHO WE ARE

The Career Center provides advice and guidance to SMU students and assists them with both local and international placement opportunities (i.e. internships and jobs). It fosters corporate partnerships and organizes events such as job fairs, workshops, and company visits to connect students with the business world.

The center maintains a close collaboration with major multinational and national companies such as: EY, UPC Renewables, TAYP, DELOITTE, SWICORP, UNILEVER, ALPHA MENA, COLOMBUS, ODDO, SFBT, BNP PARIBAS, PWC, COFICAB among others.

The Career Center also focuses on Alumni Community Development and conducts follow-up efforts as well as satisfaction surveys involving our different stakeholders.

CONTACT

careeroffice@msb.tn

Advising and Counseling Center (ACC)

WHO WE ARE

The Advising and Counseling Center (ACC) provides academic advising and individual counseling to current SMU students.

The ACC staff works with members of the University to assist students in facing any challengesthey may encounter.

It will assist students in developing interpersonal skills to help them grow personally, and build more satisfying relationships within their community.

SERVICES OFFERED*

Individual counseling sessions

Individual academic advising

Weekly group sessions or/andworkshops related to specific topics

Outreach programs to raise awareness about certain mental health and academic issues and improve self-care

CONTACT

acc@msb.tn

*Services are provided by a licenced counselor.



How to Apply ?

ADMISSION PROCESS Submission of Application Form & Documents



ADMISSION CRITERIA

Academic Background

English proficiency & high school diploma

Motivation

Adaptability and flexibility in a diversified environment

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You can start your application through these links:

goo.gl/ITU7vu: to pre apply quickly and get more information about our Engineering Program admission process goo.gl/gVr871: this is our official online application form.

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MedTech Executive
Education,
to Remain at the Forefront
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