



We invite 40 countries this year

We HIT 1500 PARTICIPANTS!



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11<sup>th</sup> Edition  
Mars 2020



# IFEST<sup>2</sup> 2020

## Event Guide

### Event details

Organizers...Schedule...  
Activities...  
Registrations...

### Categories...

### Registration...

Everything about:  
Competitions...  
Conferences...  
Workshops...

**Students Projects Competition**  
All sciences and technology fields  
& multimedia Projects

**Teachers international STEM Contest, Workshop & Conference**  
Opportunity to Meet, Share and Win

**Open Robotics Olympiad**  
6 categories

**Meet the scientist**  
Science Talk

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Hatem SLIMANE  
I-FEST<sup>2</sup> general director

## Organizer



## Co-organizers



MILSET



BRISECC

## National Partners



TECHNOPARK  
Monastir



Gouvernerat  
Monastir



Ministry of Education  
Ministry of Technology  
Ministry of Culture  
Ministry of Tourism  
Ministry of Youth  
Ministry of research

## Editorial

Dear Partners, Scientists

“ATAST is much more than an organization; it's an opportunity to experience a few things that are unfortunately diminishing in our societies: innovation, creativity, a sense of solidarity and trust. An ATAST member knows he can fully count on his fellow members for support when it is needed. Being an ATASTIEN is about wanting to enhance your surroundings for the better, and always thinking about what's best for your fellow man when it comes to scientific innovation. We have created I-FEST<sup>2</sup> for all those who are willing and able to excel in various scientific domains, this is a chance to improve your knowledge, exchange ideas, cultures, and points of view and of course make long-lasting friendships.

ATAST: think again be different!”

# About ATAST

## The Tunisian Association for the Future of Sciences and technology<sup>2</sup>

Since its first appearance in 2007, ATAST (Tunisian Association for the Future of Sciences and Technology), has continually proved itself serious and dedicated in paving the road of scientific and technological development in Tunisia. ATAST started transforming from a small school club into the association it is today, with its establishment as an official scientific association dating to 2011, since then ATAST members has honorably represented Tunisia in many International Festivals and competitions.

# About I-FEST<sup>2</sup>

## International Festival of Engineering Sciences and Technology in Tunisia

I-FEST<sup>2</sup>, the International Festival of Engineering Science and Technology in Tunisia, is a 9-day-festival organized by ATAST, the Tunisian Association for the future of Science and Technology, open for all students between the ages of 14 and 24.

The 9-day program will be an experience as unique, educational and fun as possible, including various activities and many new discoveries, and will include various trips and excursions to discover the rich Tunisian culture.

Projects will be assessed based on a score system; participants can increase their score during the Scientific Rally, by appealing to the public and of course during the judging procedure.

Participants of I-FEST<sup>2</sup> will be undergo a judging procedure by several specialists in the domain of their project, it is an opportunity to highlight your hard work and achievement, and having your project assessed by a team of specialized judges.



Unlike most other science fairs, in I-FEST<sup>2</sup> the public will have an effect on the project's final score, if the public, who may or may not have, complete scientific knowledge of the project and its domain, are able to find the project useful and appealing then that will result in an increase in score.

I-FEST<sup>2</sup> participants will take part in a scientific rally, during which teams, who will be made up randomly, will compete to complete a project and certain objectives set by the organizers.

In addition to all this, each project will be presented in a large conference hall in front of an audience of judges and viewers from the public, this is to emphasize on the importance of presentation skills.

I-FEST<sup>2</sup> Categories include: Physical science, Engineering, Environmental Science, Computer Science, Life and Biology, Social Science, Multimedia, Short Film and Business.

**MILSET**  
The International Movement for Leisure Activities in Science and Technology is a non-governmental, non-profit and politically independent youth organisation, which aims at developing scientific culture among young people through the organisation of science and technology programmes, including science fairs, science camps, congresses and other activities of high quality. MILSET was created during ESI 87, the first International Science Fair held in Quebec, Canada in 1987. Since then, regional offices were established in Latin America, Africa, Asia, Europe and North America.

## BRISECC

Belt and Road International Science Education Coordinating Committee continuously promotes the coordinated development and common prosperity of the international science education through extensive cooperation among government departments, scientific organizations, schools and enterprises.

BRISECC serves as a coordination mechanism and high-level science education platform to boost resource and information sharing, personnel exchange, as well as deep cooperation among members.

## Who can attend?

- High School Students
- Universities Students
- Supervisors
- Guests and Visitors
- Fair & Organization Directors
- scientists and experts



## Eligibility

In order to be eligible to participate in I-FEST<sup>2</sup> you must be one of the following: an approved finalist, aged between 12 and 24, whose project has been accepted.

You can also participate if you're supervising one or more projects and accompanying contestants provided you are approved by the I-FEST<sup>2</sup> committee and meet the necessary standards. You may also receive an invitation to attend I-FEST<sup>2</sup> free of charge, as a VIP. VIPs include fellow science fair hosts, donors or those who have provided exceptional services to ATAST and to further improve I-FEST<sup>2</sup>.

I-FEST<sup>2</sup> is for High School and universities Students.

# I-FEST<sup>2</sup>

## Categories

### Physical Science

Current research areas can be listed roughly as solid-state physics, atomic, molecular and optical physics, particle physics, astrophysics, geophysics and biophysics. It contains the experiments done to test the theoretical predictions, Physical Science contains the works of producing mathematical models that can be tested with experiments.

### Entrepreneurship contest

One of the categories in I-FEST<sup>2</sup> is entrepreneurship, in which contestants have to create a business offering a service or a product. The judging process will take many factors into consideration such as the business plan presented by the contestant, its efficiency and long term growth, its logo and of course the innovative part of the business. Bank representatives will be present during I-FEST<sup>2</sup>, and are prepared to offer financial support to the most deserving business.

### Life & Biology

It concerns the basic life events in the body, diversity, growth, development, behaviors, and their relationship with the environment. Every day, people encounter biological problems. It is divided into many branches such as Botanic, zoology, microbiology, physiology, morphology, ecology, biochemistry...

**PROJECTS WILL BE JUDGED AND STRICTLY  
EVALUATED ACCORDING TO THE INTERNATIONAL  
SCIENTIFIC STANDARDS**

### Engineering

Engineering is the application of scientific, economic, social, and practical knowledge in order to design, build, maintain, and improve structures, machines, devices, systems, materials and processes. It may encompass using insights to conceive, model and scale an appropriate solution to a problem or objective. The discipline of engineering is extremely broad, and encompasses a range of more specialized fields of engineering, each with a more specific emphasis on particular areas of technology and types of application.

### Multimedia & short film

The Competition also accept multimedia Projects and short films. Participants can choose the project main subject. Finalists have to prepare an animated short film which will be presented in front a special jury committee and the present public participating in the event.

### Social Science

In sociology, identity is a person's conception and expression of their individuality or group affiliations. the concept is given a great deal of attention in social psychology and is important in place identity.

### Maths and Computer Science

Computer Science is the scientific and practical approach to computation and its applications. It is the systematic study of the feasibility, structure, expression, and mechanization of the methodical processes (or algorithms) that underlie the acquisition, representation, processing, storage, communication of, and access to information.

### Judgement Score:

- Poster Session
- Room Session

### Poster Session

During the fair, Students must prepare their booths (Display board, poster). The judge panel, formed by university professors or experts in their fields, will be in a direct interview with the students' owners of the project. The score is established according to the international standards of science competitions.



- Clarity
- Scientific thinking
- Engineering Process
- Thoroughness
- Creativity
- Communication Skills

### Room Session

All Finalists will have a room session presentation before the poster session, they will be demanded to present their projects in a 5 minutes speech with the presence of a jury committee.

The best three projects will have the opportunity to be presented during the award ceremony.



**Presentation  
With the minister of technology**

# International STEAM Congress

The International STEAM Congress is a forum, taking place during the International Festival of Engineering Sciences and Technology in Tunisia, targeting 250 teachers, educators, and leaders in organizations dedicated to advancing the interest of STEAM disciplines to youth.

The first part of the congress is, the **STEAM Conference** which is a space where important topics can be discussed and debated to develop strategies and solutions to engage young people in pursuit of STEAM education in their respective countries. Highly qualified speakers will be there to make a speech in different STEAM topics and share their expertise with the participants.

Also, **STEAM Workshops** are making the International STEAM Congress such a unique event. For this year's edition the STEAM workshops will have four main axes.

## Teachers STEM CONTEST

Finally, all educators and leaders in organizations have the opportunity to compete together and each participant has to choose a specific field and present a STEAM educational lesson during the **STEAM TEACHERS CONTEST** with the presence of a jury committee.

The Lesson's script must be sent in advance to the organisation board via email:  
[steam@ifest-tunisia.org](mailto:steam@ifest-tunisia.org)



For more details about rules  
[ifest-tunisia.org](http://ifest-tunisia.org)

# Light & Science Workshop

Animated By the World renowned artist  
**KARIM JABBARI**



Karim Jabbari is also recognized as one of the most respected light calligraphy artists in the world. His quest for innovation and discovering new ways to incorporate the Arabic calligraphy pushed him to give a new dimension to that discipline.

Inspired by old arabic scriptures, Karim developed his own abstract form of calligraphy using different patterns, shapes, and colors. Always searching for an original concept to breathe more vibrancy and life into his creations, Karim's work is continuously evolving. Classic Kufi and Maghrebi calligraphy are featured in many of his compositions. This preference arises from the strong pull towards his North African background and the importance of keeping dying traditions alive.

Love of letters is the main source of inspiration for him, and it makes him one of the most polyvalent visual artists



Everyone will get the opportunity to learn this art and how it relates to science and programming.

With another artist specializing in percussion, this workshop will be truly unique and tailored for each



For more details  
[www.karimjabbari.com](http://www.karimjabbari.com)

# STEM CONGRESS SPEAKERS

This year's STEM CONGRESS will feature several innovators and various field experts that have come to share their professional experiences.



## Koskinen, Pekka Johannes

- Docent (Adjunct professor)
- Pioneering and advocating peer instruction methods on mass lectures and collaborative learning in recitation classes
- Creator and manager of the YouTube channel Opi fysiikkaa.



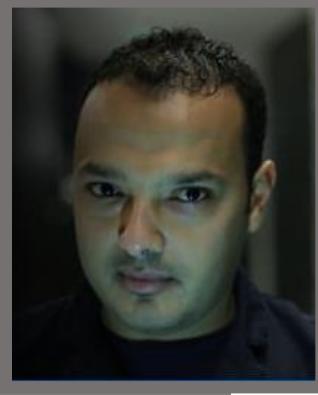
## Shady ELKASSAS

- A multiple award-winning and passionate Egyptian educator working in United Arab Emirates.
- Winner of Khalifa Award of Education Excellence, and Middle East Education Influencer Award winner.



## Mahmoud Abdelaal

- A former Intel education manager and Intel ISEF coordinator. USAID scientific clubs counselor and STEM program senior trainer
- Scientific thinking workshops and trainings.
- Currently, he is a Japanese school principal in Egypt and has awarded a leadership and TOKKATSU certificate from Fukui University in Japan



## ABDELWADOUD SAIDI

- Software engineer for Live light calligraphy & interactive light installations: KSA, UAE, Qatar, Kuwait, Bahrain, Russia, Malaysia.
- Telecom engineer :Nokia-Alcatel Tunisia, Huawei Algeria & Jordan, A Microsoft Certified Technology Specialist (MCTS) certification

# "Meet the scientist conference"

## Science talk conference

Meet The Scientist Conference is a forum, taking place during the International Festival of Engineering, Sciences and Technology I-FEST<sup>2</sup>, targeting 400 students, teachers and supervisors from all over the world.

Meet the Scientist Conference; will be a space where important topics in the field of Sciences and Technology can be discussed and debated to encourage and engage youth people to learn and work more and more about those topics; astronomy, Robotics, Biology, Artificial Intelligence...

A highly qualified scientist will be there to make a speech about those fields and to share their expertise with the participants.

The I-FEST's Organising Committee invites all participants to join this conference. If you are interested to participate, you have to request your pass by email ([info@ifest-tunisia.org](mailto:info@ifest-tunisia.org)).



# Trash to Art

A recycled materials art fair & workshop which offers a fantastic range of tested creative workshops to engage young people in reusing ordinary materials to make artistic sculptures. Participants will interact with everyday items such as plastic bottles and mechanical trash to make artistic robots and to create attractive models.

The Trash to Art workshop enables us to learn about recycling and sustainability in a creative manner.



# Robotics Workshop

VEX, LEGO,  
Free design technology

Free training courses in robotics fields will be arranged for teachers and supervisors whom want to attend.

Two levels of training will be available

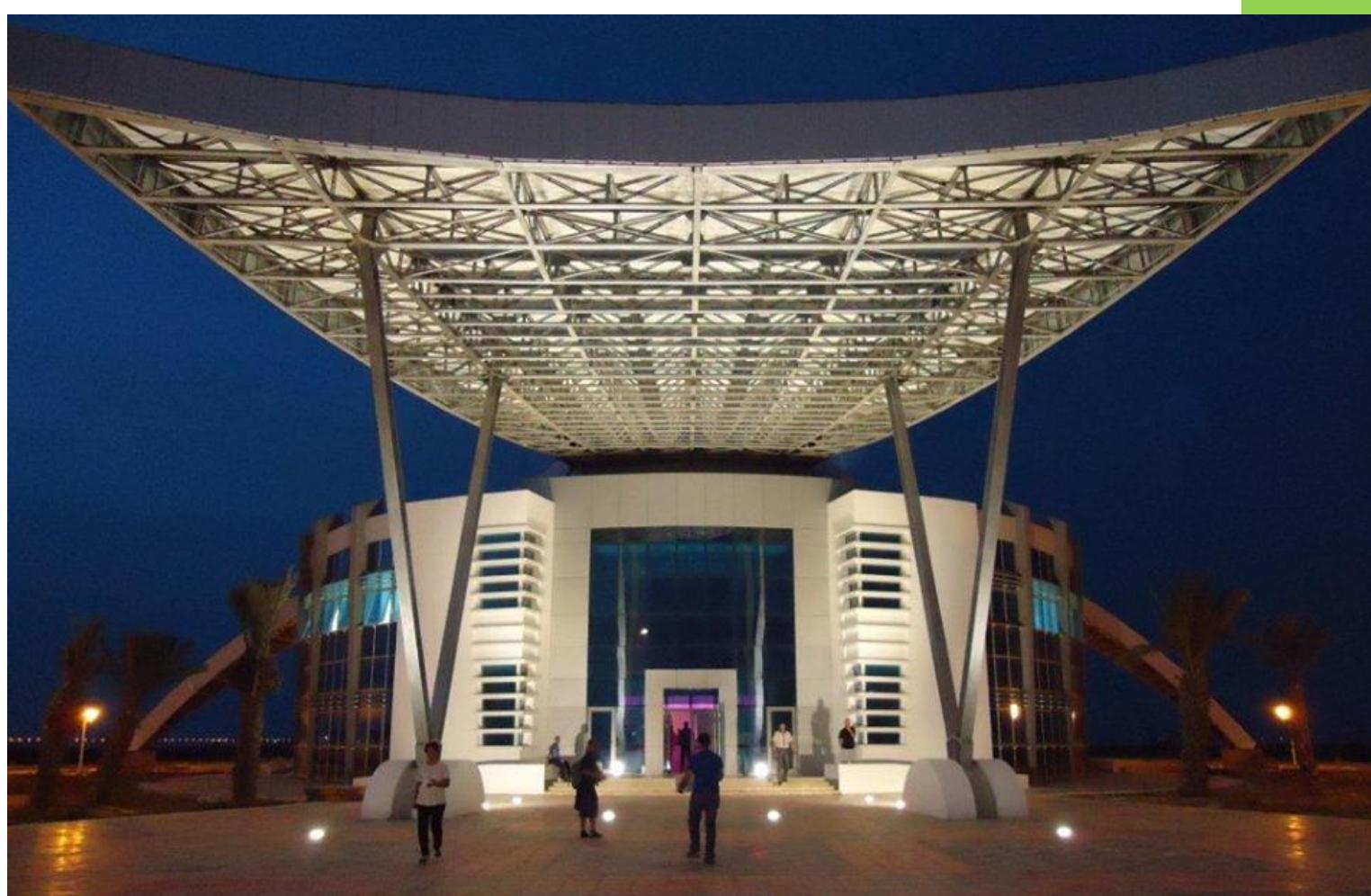
- How to use Robotics in Education for advanced
- How to build your first robot for beginners

## Recycled materials In STEAM workshop

Un autre workshop sera organisé pour les éducateurs qui leurs permet d'apprendre et de réaliser des prototypes exploitable dans l'éducation des domaines scientifiques tels que physique ; mathématique, astronomie et arts

## Explore the History in a new Way

Treasure Hunt Place

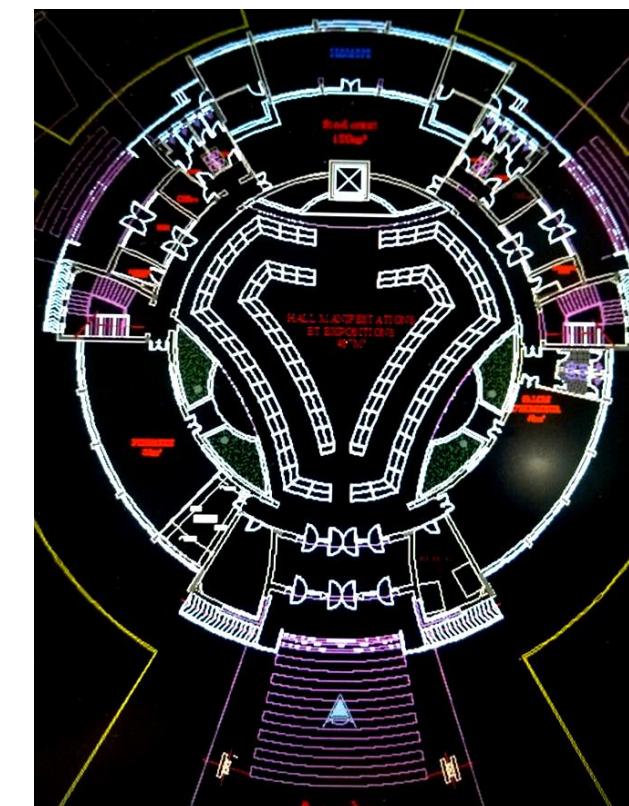


## Scientific Rally

### Treasure hunt Contest

The Treasure hunt will be a unique and one of the most memorable experiences you will have in this year's edition of I-FEST<sup>2</sup>, making you go around ancient historical monuments searching for clues to advance in your quest, be on the lookout and have fun!

Participants will be randomly shuffled into teams for the treasure hunt



Expo main Hall...

# I-FEST<sup>2</sup> 2020, The Venue...

I-FEST<sup>2</sup> 2020 will be hosted in the Monastir Technopole, a renowned scientific research facility with a very unique architecture.

The location will be divided into 6 sections:

**Main Expo Hall**  
**FabLaB**  
**Robotic Space & Fields**  
**STEM EXPO**  
**Trash Art Gallery**  
**Open Astronomy Space**

## SCHOOLS and CLUBS STEM EXPO

STEAM Fair is a place where participants will have the opportunity to learn in a unique way by taking part in small STEAM projects in different scientific fields. Local Schools and Clubs are invited to prepare their booths and hold public workshops where visitors will learn the awesome fundamentals of a STEAM project in a just a minutes

# How to join I-FEST<sup>2</sup> 2020

## Participation process

There are two ways to participate in I-FEST<sup>2</sup>:

- 1/** You must be a representative of an affiliated fair or an organization or a winner of an ATAST special award during a fair you have participated in.
- 2/** You may also make an individual application, after filling out the online participation form. I-FEST<sup>2</sup> committee will review the applications and choose the qualified applicants to join.

Please register here: [ifest-tunisia.org](http://ifest-tunisia.org)

## Registration Fees

	Finalist	Supervisor	VIP	Guest	Special Award
Registration fees	450 USD	450 USD	free	550 USD	depends on the award
Accommodation (6 nights 4 Star Hotel)	✓	✓	✓	✓	✓
Food (3 meals / Day)	✓	✓	✓	✓	✓
Local Transportation	✓	✓	✓	✓	✓
Trip (Djem&Kairouan)	✓	✓	✓	✓	✓
Trip (SidiBouSaïd)	✓	✓	✓	✓	✓
Training and Workshops	✓	✓	✓	✓	✓
Starts From 20 <sup>th</sup> to 26 <sup>th</sup> of March 2020					
Desert Extra trip (please see the extra desert tour guide)	250 USD				
Some affiliation contract offer more opportunity please contact us for more details					

Affiliation may offer



**Direct qualification**  
**Exclusive representative**  
**Reduction in registration fees**  
**VIP invitation of the fair director**



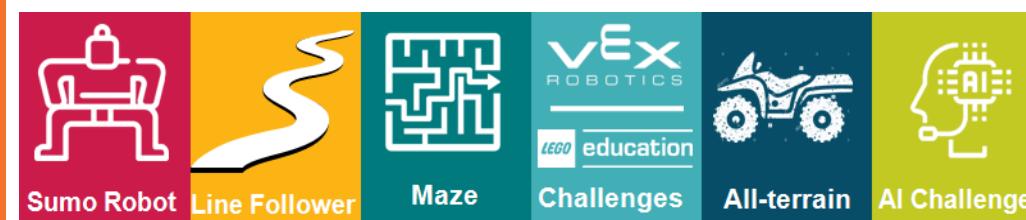
For more details please visit  
[Ifest-tunisia.org](http://Ifest-tunisia.org)

# Open Robotics Olympiad

(ORO) Olympiad is an international robotics competition, featured during I-FEST<sup>2</sup> 2020, that aims to promote an excellent generation in robotics. It gives the opportunity to national and international pupils and students aged from 6 to 25 years old who will be classified into many categories. Each category can participate in specific competitions. ORO's competition holds:

- SUMO\_CHALLENGE
  - VEX
  - LEGO
  - FREE Design
- LINE FOLLOWER\_CHALLENGE
  - VEX
  - LEGO
  - FREE Design
- ALL-TERRAIN
  - free design
- AI\_CHALLENGE
  - free design
- VEX CHALLENGE
- LEGO CHALLENGE
- KIDZOBOT Challenge

The winner team in each competition is the team who collects points the most in that competition and he will be awarded. The winner team in the Olympiad is the one who collects points the most from all competitions and to whom the ORO's Big Trophy will go to.



# I-FEST<sup>2</sup> Highlights

## Opening Ceremony

The I-FEST<sup>2</sup> opening ceremony is a chance for the participating countries to give each other a small taste of their unique cultures and give a small and proud presentation of their countries.



## Street carnival

During This exciting event participants will have the chance to see different performances, music Show, Street arts, and Amazing Science show...

Cosplayers also will show off their own costumes



## Social Event

I-FEST<sup>2</sup> dedicate a night of its 9-day schedule to host a one-of-a kind cultural event, where the participants took the opportunity to showcase the things that give their countries their unique flavors, everything from food, to clothes, to post cards to dances were exchanged during this fun night.



## I-FEST<sup>2</sup>... Awards & Rewards...

The Top Projects in the I-FEST<sup>2</sup> Categories will be awarded medals and certificates to signify their distinction in their respective fields. Special Awards will also be given to any and all who have contributed to the success of the competition.

This year's winners will be awarded with exceptional awards and trophies that will serve as a long-term reminder of the time spent at I-FEST<sup>2</sup> as well as a means of encouraging the young scientist to further develop their projects and ascend to higher levels of research.

The awardees will be given rank-specific prizes and gifts, ranging from gifts to trophies to cash awards for the Top 3. The top projects will be awarded with certificates of participation as well as certificates of achievement to signify their excellence in their respective domains.



The Best ranked from local teams; will represent Tunisia in different competitions around the world In China; USA; Europe ...



# Accommodation

Luxury hotel and food

## Vincci Rosa Beach Thalasso & Spa

Participants will enjoy one of the most luxurious stays provided in the state of Monastir, fully paid for by the I-FEST<sup>2</sup> committee.

Close to the beach, the hotel will cater to all your needs and will try to make your stay as comfortable as possible during your participation in I-FEST<sup>2</sup>, with a variety of food options and buffets. Take pleasure in doing one of the many fun activities provided in your hotel, visit the gift shop, go for a swim in the pool, or simply relax in the lounge. Please schedule with the I-FEST<sup>2</sup> committee in regards to your arrival plane.

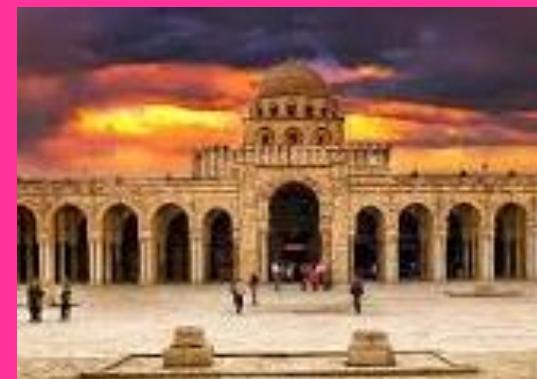
All participants will stay during the fair in the "Vincci Rosa Beach Thalasso & Spa", 5000 Monastir- Tunisia

# Trips

Explore Tunisian history and tradition

Full paid Trips by ATAST are organized to allow you to discover the long history behind Tunisia, ranging from monuments built during the reign of the Roman Empire such as the **El Djem** Amphitheatre, to remains of the Phoenician Culture like those found in **Carthage**.

You will enjoy also a visit to The Blue City: "**Sidi Boussaïd**". The very famous mosque of "**Okba IBN Nafaa**" is another stop during our trip.



# Desert

## Touristic Extra Tour

Nomad experience

Discover Cities and Oases like Tozeur, Matmata and Douz. All rich with unique architecture and historic remains. And for all you Star Wars fans out there, a once in a lifetime chance to visit the set of the original film. This unrivaled experience in Tunisia also ensures your holiday is well planned to make the most of our spectacular country, this tour is mixed with a visit to Sahara and camel rides, you'll also get to see stars crystal clear during a traditional dinner in desert tents. Exciting rides in desert vehicles (4x4 and Quad Bikes) are sure to take your breath away, leaving you wanting more. Not to mention, the desert animals, the idea of putting up a snake around your neck is truly exciting! Add to that, seeing the Rocky Mountains and waterfalls would be the most fabulous view you'll ever get to see.

Places are very limited, with only 50 available spots. Please make sure to reserve your seats early if you wish to participate by selecting 'Yes' when you are asked 'Going to the NOMAD TOURS EXTRA TRIP' in the online registration form or by contacting us via email: info@ifest-tunisia.org

Please find more details  
in the Desert Tour guide



# I-FEST<sup>2</sup> 2020

Project Olympiad | Innovation hackathon | Robotics

[ifest-tunisia.org](http://ifest-tunisia.org)

Registration Is Open

## New Categories

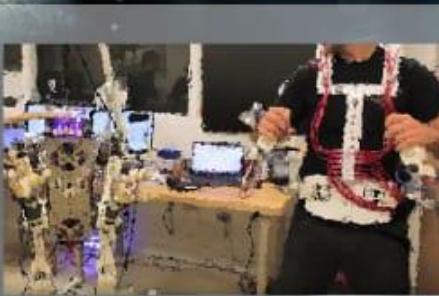
A Program Of  
**ATAST:TUNISIA**  
 I-FEST<sup>2</sup> 2020, in its 11th edition  
 invites more than 1200  
 participants from 40 countries  
 to present their work of  
 innovation and invention.



Sciences & technology activities.  
 STEAM Conferences & Seminars  
 Contests & Project Fair



Explore Tunisia  
 Cultural Activities  
 Trips & Discoveries



Innovation Hackathon  
 Robotic Challenge  
 public Speaking

## General Program

Date	Main Activities
20/03/2020	Arrival and registration
21/03/2020	Present your country activity Meet the scientist Conference Opening ceremony Multimedia Film Session / Projects Room Session/ Robot inspection session Ice Breaking Teacher activities / Students activities Teachers round table
22/03/2020	Projects set-Up STEAM and Art fair 3D print Challenge Open To the public & Special Award Judgment Workshops for teachers Robotic Challenge STEM Committee competition for teachers Sky Observatory Workshop
23/03/2020	Projects Judgment day Teacher World conferences & workshops & STEM competition Final Robotic competition Design & 3D print challenge Treasure Hunt & Monastir tour Culture night
24/03/2020	Trip1: Sidi boussaid and carthage (The Blue city Tour)
25/03/2020	Trip2: EL DJEM – KAIROUAN Award ceremony Farewell party
26/03/2020	Departure Desert Touristic Extra tour (from 26 <sup>th</sup> -28 <sup>th</sup> )

\*This is an approximate schedule that may or may not have certain adjustments.



# Important info



## Contacts

- **Adresse**  
BP 42 Moknine 5050
- **Mobile**  
+21629535631
- **Whatsapp**  
+21652593421

- **Emails :**  
[info@ifest-tunisia.org](mailto:info@ifest-tunisia.org)  
[steam@ifest-tunisia.org](mailto:steam@ifest-tunisia.org)  
[info.atast@gmail.com](mailto:info.atast@gmail.com)
- **Web :**  
[ifest-tunisia.org](http://ifest-tunisia.org)
- **Facebook :**  
[www.facebook.com/IFEST.TUNISIA](http://www.facebook.com/IFEST.TUNISIA)

## Deadline

The registration deadline is 15 February 2020  
If you need more time please contact us on [info@ifest-tunisia.org](mailto:info@ifest-tunisia.org)

## STEM Teachers Competitions

Please send your lesson to  
[steam@ifest-tunisia.org](mailto:steam@ifest-tunisia.org)  
Before Mars 15<sup>th</sup> 2020

## Airports

Pick up from the following airports is available

- Tunis Carthage Airport (TUN)
- Airport Habib Bourguiba Monastir (MIR)

## Payment Method :

- Western Union
- MoneyGram
- Bank Account Transfer

Please Ask For Details By E-mail

## Payment Deadline:

Please ask for help by email:  
[info@ifest-tunisia.org](mailto:info@ifest-tunisia.org)

## Extra days

- Accommodation, Meals, Local Transportation, Trips, Materials are ONLY Covered by regular fees (not including desert extra trip) from 03/20/2020 to 03/26/2020
- For Extra days please e-mail us with the date and duration by March 1st 2020
- Trips To/From the airport are covered on 19th,20st,25th,26th and 28th