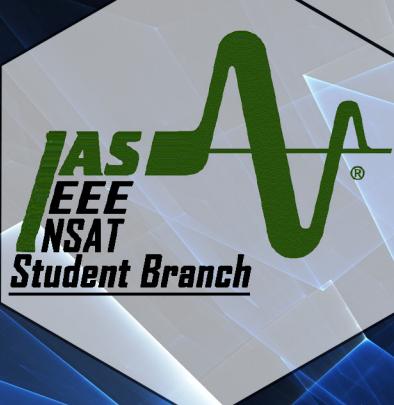
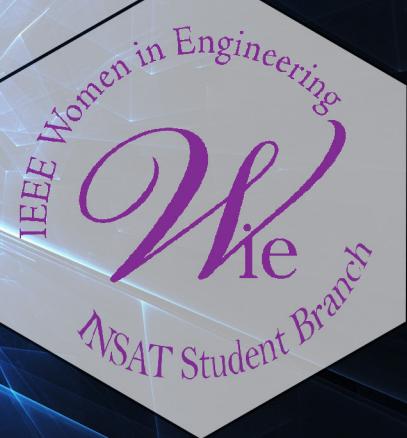


IEEE INSAT SB Magazine

An Inside Look
at IEEE INSAT SB



IEEE
nsat_{s.b}



1st Edition
March 19th 2016

IEEE IEEE INSAT SB

IEEE INSAT SB Student Chapters

"INSAT En Lumière"

T.S.Y.P.

**How to use your
IEEE Account
Effectively?**

Fun Zone

**IEEE INSAT SB
Members data base**

IEEE



The institute of electrical and electronics engineers of IEEE for short was founded January the first, 1963 as fruit of the AIEE (the American institute of electrical and engineers) and the IRE (the institute of radio engineers) merging into an organization that is dedicated to the continuing progress of electronics and technology which aims to provide a better future for all mankind. As the world moves to a new range of electronics, giving away your standard computers to portable ones, evolving into satellites and fiber optics, IEEE was one of the first to adapt to a new generation of technological innovations that included robotics, nanotechnologies, ultrasonics and much more. with more than 350.000 members in 160 countries by 2010 , the IEEE is globally recognized for its wide range contributions to the world of technical professionals and its honest visions towards the empowerment of humanity through technologies, which are visibly found in the IEEE CORE Values : being TRUSTED as a reliable source of information, ENCOURAGING studies and research as a priority to the organization , CREATING a community of confident, wise and trustworthy professionals , able to lead the world-wide researches forward and making a noticeable difference in their areas of expertise, PROVIDING the learners with the best conditions and a suitable atmosphere to boost productivity and self-empowerment, OFFERING to the world highly gifted distinguished people with adaptability and the ability to be active in all fields of life, and who are exemplary in work ethnics and integrity. IEEE is not only an organization which provides excellence and high quality studies, it is also a sample of an integrative society with active members and a productive staff. It is the sponsor of more than 1.600 conferences in nearly 80 countries including offices in the U.S, China, Japan India and more. With more



IEEE President and CEO
Barry L. Shoop

than 4 million documents in digital libraries, it takes the lead as a visionary, pioneering, educative organization making its future goals to expand its communities to integrate more individuals into fruitful , flexible debates and collaborations, empowering more professionals , bringing forth technology and using it to help solve our modern-world dilemmas and conflicts , providing better future for the next generations to come , ensuring dynamic , productive activities and conferences focused on technology and development , adapting to the demands of the surrounding based on the needs of the public and individuals. IEEE is more than an organization; it is ambition, hard work, empowerment, humanitarian efforts honesty and integrity. It is now and the future.

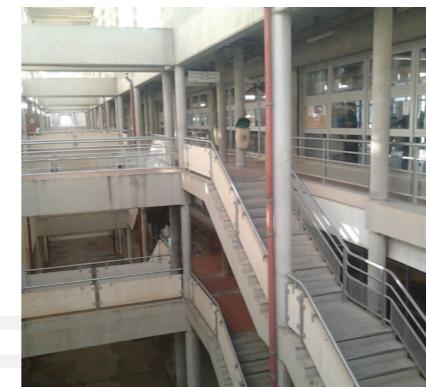
IEEE INSAT SB

The IEEE INSAT Student Branch is a recent Branch of the Tunisia section. It was created in November 2012 by 12 Student members and a senior member Mrs Afef Banani attached to the Industrial Computing and Automation field. Now it has more than 287 members in different chapters ; PES (power and energy society) EMBS (Engineering in Medicine and Biology Society) CS (computer society) IAS(industrial applications society) RAS (robotics and automation society) As a student branch, IEEE INSAT SB depends mainly on volunteers to organize the events and activities held by the branch. Volunteers can come from any department whether within National institute of applied science



IEEE INSAT SB First stand in INSAT's Hall

and technology or from other institutes. Becoming an IEEE volunteer can be a gratifying and memorable experience. Whether your skills are suited for organizing conferences and meetings, financial reporting, communicating or maintaining web sites, chances are your local Section or Society is in need of someone with your expertise.

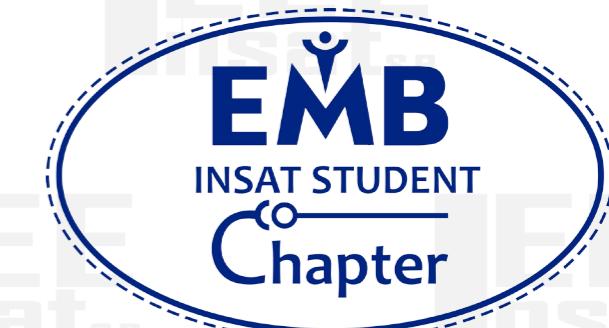


As an IEEE volunteer, you can take pride in participating in activities that interest you, while expanding your knowledge of the IEEE, gaining valuable management and leadership skills, and connecting with others in your profession.

IEEE INSAT SB Student Chapters



IEEE INSAT SB
COMPUTER
SOCIETY
Student Chapter



IAS
IEEE
INSAT
Student Branch



Power & Energy Society®



IEEE RAS
Chapter
INSAT SB



IEEE INSAT SB Computer Society Student Chapter

IEEE Computer Society sits on the number of membership's throne with more than 60.000 members.

It is the reliable fountain of networking, information and career-development of a world-wide community of technology leaders that encompasses researchers, educators, software engineers, IT professionals, employers, and students.

This association was established in 1971 with a main objective and goal to advance computer science's theory, practice and applications.

IEEE CS subsidize more than 200 technical conferences and events each year, including the industry-oriented "Rock Stars" series, all over the world, aimed at research and industry professionals, needless to mention their evolutionary publications (17 scholarly journals and 13 magazines among others) featuring the latest technology trends.

In addition to what have been included, it also provides useful products such as "myComputer" app, and professional education and training and has forged development and provider partnerships with major institutions and corporations internationally.

The IEEE INSAT CS chapter was founded Mars 2015 by no other than our SB president "Skander Mansouri" with Mrs. Sfaxi Lilia as an advisor.

The executive board is composed of:

- Cyrine Gassouma : president
- Fadi Abassi : Technical Vice President
- Nesrine Agrebi : Operational Vice President
- Ichrak Mars: Secratry
- Mohammed Mhiri : Tresurer
- Maroua Louati : Sponsorship responsible
- Meriem Rebai : Human resources responsible



IEEE INSAT SB
COMPUTER
SOCIETY
Student Chapter

Computer Society
chapter set up a handful
of events:

- Android training session, January 27th
- Grand Tech, February 17th
- Hashcode, February 11th
- Droidcon, Mars 5th and 6th
- Meet Up "big data"
- Connected objects: conference
- IEEE madC

Hash Code



Hash Code is a relatively new competition organized in Europe, the middle east and Africa by Google. And in this year's edition IEEE student branch Computer Society took their shot to a



relative degree of success. So why Hash Code and why this Year? Most of the participants answered that after receiving an invitation from the CS of INSAT and some online reading about the competition they simply couldn't resist. Hash Code would certainly represent an interesting challenge that would allow them to collaborate and test their abilities, and perhaps even win something in the process, especially for whom this is the first coding competition.

Software development, especially for students is mostly a solitary task, and with limited time (the first phase of the competition only lasts 6 hours) working in groups might become disadvantaging .How did the competitors handle this. Through both their responses and their actions, it was undeniable that any previous task division or plan would have been futile. Instead, the participants opted for a division of tasks on the fly and based on the problem that they were given, after an initial phase of reading and analysis. What was the outcome? Well, even though none of the candidates made it to the Paris qualifications, that's not how they choose to measure their success. As anyone who was present could've deduced, participating in Hash Code was a fun experience for the cheer thrill of it. Racing against time and trying to compete with and against your friends is both a fun and educational process as it both teaches about the strengths and weaknesses of your team and yours, and how to effectively manage them.



IEEE Grand Tech 2016



Grand Tech 2 0 1 6

IEEE Grand Tech (GT) is a new IEEE initiative in Region 8, consisting of a series of technical events focused on computing, information technologies and projects relating to these fields and prepared by IEEE members. This relatively new initiative started back in 2014 by the IEEE Hashemite University Computer Society Chapter from Jordan.

The main objective of this event is to raise awareness about computing technologies in general, spur the creativity and passion of IEEE members and give them a chance to show their potential and to encourage them to start Computer Society chapters in their universities. Lebanon, Jordan, Palestine and Tunisia have all hosted IEEE GT events since January 2016. On February 17th 2016, this event was organized by the local IEEE Computer Society Chapter at the National Institute of Applied Science and Technology (INSAT), in Tunisia. (Teaser Link) Egypt will be next to host it on March 8th.

INSAT Computer Society Student Chapter launched this event with a presentation about and a live demo of some the amazing projects that have been prepared by IEEE members:

- “Etchaka”: is a location based review app ,that’s a lot like Foursquare but with a Tunisian twist. This app is dedicated for reviews on the public sector, it allows you to login with Facebook, then choose a place

from the categories (Municipality, Hospital etc.) then shows you a list of nearby places arranged by their distance to the user. Once the user picks a place y, they get to see its’ rating and write their own review or upload a file that proves a problem, such as bad treatment, in that specific place.

- “Jawna” App: This App helps give tourists who come to Tunisia access to relevant content(real time information about shows, transportation etc...) and a selection of events and relevant places that visitors can enjoy on their visit. As

an interactive tour guide, it provides information about the region the user currently in and all the things that region has to offer.

- “Need Help”: An application which helps people in many difficult situations such as accident, health emergency ... etc. With a click on the button “ask for help”, this app detects automatically user’s current location and phone number then notifies all app users to come to the rescue.

- “MyInsat” : an application that help students of our university to get specialized content offered by their peers and the university’s clubs. Once the users log in and select their class, the App loads their planning to their phone’s calendar. The app also loads a picture daily from the INSAT’s Photography club Facebook page (INSATshots) , shows you the day’s playlist uploaded by INSAT’s drama club(Ciné Radio) , and a selected university press article(INSAT Press)

- “AbC” App: this app aims to facilitate the process of calling in the classroom for the teacher and to inform parents immediately if their children are absent. The app shows the teacher a list of students of their current class, and once the teacher marks the student absent, the app sends a direct notification to their parent.

Afterwards, three extremely interesting conferences were held:

- Internet of Things Conference: A conference by Mr. Amine Chouaieb, CEO of CHIFCO. More details
- Leadership and Soft Skills Conference: A conference by Mr. Lotfi Saibi, President and Director at 21st Century Services & 4D-Leadership House. More details
- Entrepreneurship and Innovation Conference: A conference by Ms. Emna Ghariani, the chapter lead director of the Founder Institute in Tunisia, the largest startup launch program in the world.



Mr. Amine Chouaieb



Mr. Lotfi Saibi



Ms. Emna Ghariani

IEEE INSAT SB Engineering in Medicine and Biology Society Student Chapter

IEEE-EMBS, one of the multiple IEEE branches, is currently composed of approximately 8000 members out of the total of 32.000 IEEE member.

As the world's largest bioengineering society , the Engineering in Medicine and Biology Society has , since its founding in the early 1950s , aimed to providing global leadership to benefit its members and the entire humanity by both emphasizing on and contributing to the advance the applications of engineering sciences and technology to both medicine and biology , and promoting the professions related to this domain , through the dissemination of knowledge , the establishment of standards , the fostering of professional development and finally and most importantly the recognition of excellence .

As members of one of the most active IEEE committee, EMBS family individuals gain membership advantages within both the EMB society and the far larger IEEE organization, such as a subscription to the IEEE EMBS Magazine issuing 6 times per year, large reductions regarding subscription fees for other EMBS technical publications, and reduced registration rates for the Annual International Engineering in Medicine and Biology Society Conference.

EMB INSAT STUDENT CHAPTER is the 3rd chapter of EMBS in Tunisia Section and has about 90 members from the previous Bio-Chemistry Team of IEEE INSAT SB with various academic backgrounds.

The chapter is currently chaired by Sarra Ben Rabii
The executive board is composed of:

- Sarra Ben Rabii: Chair
- Imen Channoufi: Vice Chair
- Kalthoum Barouni: General Secretary
- Mohamed Abidi: Treasurer
- Nour Sallami: Technical manager

EMB INSAT STUDENT CHAPTER installed and stacked a heap of events:

- Charity day, February 14th
- ISO/CEI 17025 certified training session, February 24th-27th-28th
- Sponsorship training session, Mars 2nd
- ABC day, April 27th
- An Industrial visit, date not yet determined.

ISO/CEI 17025 Certified Training Session

Each socially-active individual requires as many qualifications as he could ever obtain to snatch himself whatever spot he desires when it comes to the "career world".

In the industrial arena, ISO/CEI certification are a major asset to increasing one's recruitment probability.

That's the main reason to push our EMBS members to launch an ISO/CEI certified training session ensured by AQI (African Quality Institute, founded 2005 by Arab and European engineers, aiming to provide research and pragmatic solutions to enable organizations from any industry to lead the tools and techniques for managing quality and performance excellence).



ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories is the main ISO standard used by testing and calibration laboratories. In most major countries, ISO/IEC 17025 is the standard for which most labs must hold accreditation in order to be deemed technically competent. In many cases, suppliers and regulatory authorities will not accept test or calibration results from a lab that is not accredited. Originally known as ISO/IEC Guide 25, ISO/IEC 17025 was initially issued by the International Organization for Standardization in 1999. There are many commonalities with the ISO 9000 standard, but ISO/IEC 17025 is more specific in requirements for competence. And it applies directly to those organizations that produce testing and calibration results. Since its initial release, a second release was made in 2005 after it was agreed that it needed to have its quality system words more closely aligned with the 2000 version of ISO 9001.

The certified training session took 3 days, 24th, 27th and 28th of February.

IEEE Charity Day

Charity day, special day dedicated to the unfortunate children at Charles Nicolle's hospital.

Organized by IEEE INSAT SB EMBS in collaboration with YTCA (Young Tunisian Coders Academy) and THEATRO INSAT .

Sickness is only part of life, as life is as much about sadness and suffering as much as it is about happiness. But the picture of a sick child is always hard to stomach for this innocent youngling can be missing on a lot of life joys. Taking this thought in consideration, the IEEE INSAT student branch decided to organize a special day in order to make those children, suffering from chronic diseases feel more alive than ever.

And that's how Charity day was made. The event took place on February 14th which in fact coincides with Valentine's Day, the international day of sharing and making people feel important and special.

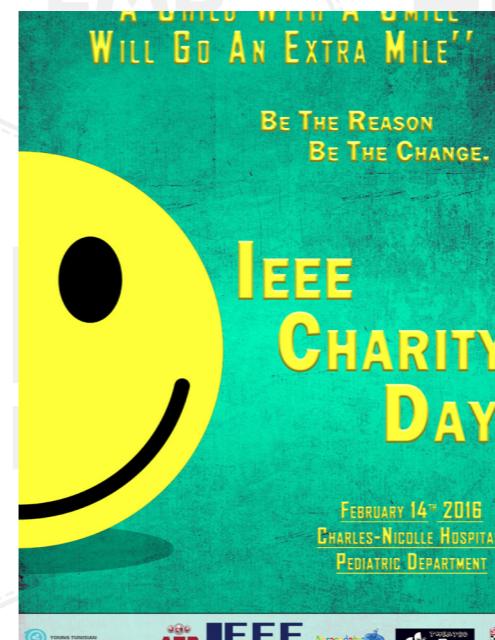
The event went from 9 am till 7 pm with two teams tagging: one in the morning, one in the afternoon. And offering a variety of workshops such as; the DIY (do-it-yourself) workshop, managed by Hiba Othman. Plenty of handmade crafts were created such as Snow white and Superman's cardboards. There was also a photography workshop, managed by Zeineb Bouzid, the reading workshop, managed by Syrine Laayouni where the children



were assembled together around a circle reading tales, we chose and recited the funniest stories to enhance their imagination.

A little courtesy was bestowed to the children: portraits. Indeed we were lucky enough to delight in the work of Mr.Souhail Fakhfekh, an artist who has proved that the art of drawing overtakes the concept of penciling and crayoning simple lines on some paper, these portraits of such delicacy stealing the children and their mothers' breaths away. Each child, actually those whom we were able to pin down, received a portrait, some sort of a memory of our visit, and it was a little bit difficult because of the numerous activities going on that they were indulging in.

Let's not forget to set the lights on the unique and



excite their papilla while paying attention to their health.

Our work was far from over because we had the whole afternoon and eve for yet more fun and entertaining activities to cheer up the youngsters and lift their spirits up to show them how much we care for them since valentine's day isn't only to show love for your significant other but for all those you care about also.

So, we had to switch teams: those who have finished their job have passed the torch to the second team; I'm sure they would've loved to stay for longer, but it was under hospital staff's orders that it wasn't allowed.

The DIY mission continued during this session as well. Right after it was the performance of theatro



innovative action was organized by Slim Bouakez and Maha Genni, members of the YTCA and an INSAT student, based on offering these children a Skratch training session, an informative, simple and playful language.

It aims to allow them to create their own games. The purpose of this activity wasn't only to show them how to manipulate new technology, but also how to reflect on creating their first handmade crafts.

So we were rewarded with seeing their beautiful smiles taking shape on their faces as they were able to hear the meowing of the cat which was produced by the small program that they developed.

At the end of the first part of the day, the children enjoyed the heart shaped cakes and the biscuits baked by the kitchen crew. A small touch of love to



INSAT's club, whom members welcomed the idea of cooperation with open arms and big charitable hearts sacrificing some of their time which would've been used to rehearse their main play scheduled to be performed within weeks from now.

The play was called "searching for a villain" in the "Land of super heroes" featuring Aladin, Jaafar, The genie, The little red riding hood and the big bad wolf, snow white and the wicked witch, and of course the main character called "Ali mama". The show was quite entertaining and kids laughed so hard.

Then came karaoke's turn: the youngsters had a different taste than anticipated by our members where they demanded to sing popular songs such as "mazatil", "houmani" and "houa wala le" instead of cartoon songs. I guess we shouldn't have been surprised.

And last but not least, our journey comes to an end with the projection of the animated movie "ice age 3", which was a well-made smart choice since it was completely safe to watch it, if you know what I mean.

At the end of the evening, a huge pile of presents collected by our members was offered to them, I guess you gifts are fundamentals on Valentine's Day.

To sum it all up quickly, it was exhausting, time-consuming, thus it was time VERY well-invested. The smiles drawn on the children's faces were by far the rewards we deserve.

We showed them that they are not alone. Their smiles and giggles taught us that there is always something good about life, that giving is the best way to know the true meaning of love.



Sponsoring Training Session

Sponsorship is a crucial asset to ensure a project's, a start up's, or even an event's glorious success. As students at the verge of starting our own careers, and as clubs', associations' and organizations' members, it was nothing but important to be provided with the necessary coaching to best exercise this monetary management.

So, our IEEE INSAT's EMBS chapter members granted us the privilege of a sponsorship training session with the famous, very successful Mr.Mehdi Mahjoub, a sales, finance and a variety of economic sectors' expert,



specialized in Banking, Project Management & Innovation Management. The training session took place on the 2nd of March behind INSAT's doors. Everyone was welcome to assist and the presence of the interested parties was significant.

The main points of focus were designated and detailed such as "how to address potential-sponsor target", "How to get hold of an appointment", "What should be included in your sponsorship file and how to present it", etc.

In an attempt to interact with the crowd, the coach suggested a sort of exercise which consisted of listing the potential-sponsor enterprises suited to promote MESBS 2017.

In short, this was a great opportunity for our ABC DAY sponsorship team to be fully informed and equipped to fulfil their upcoming task, and as for the remaining part of the attendants, it was simply very informative and helpful.

ABC Day Second Edition

IEEE EMBS INSAT Student Chapters is organizing the second edition of the ABC Day in collaboration with IEEE ULT SB. The journey will take place in INSAT's Hall on April 27th 2016.



IEEE INSAT SB Industrial Applications Society Student Chapter

Being a hard-working student, having always the highest grades and then getting your diploma with an excellent average grade makes of you a great person but not necessarily a great engineer ... You may possess knowledge, but you are way behind when it comes to dealing with real industry equipments. Besides, facing all the competition in the industrial field with a confused mind and an unclear goal is a really hard task.

Hopefully, your fears will vanish after knowing about the IEEE Industry Applications Society, one of the largest special interest societies within the Institute of Electrical and Electronics Engineers.

As a transnational organization, IAS aims to improve « the theory and practice of electrical and electronic engineering in the development, design, manufacture and application of electrical systems, apparatus, devices, and controls to the processes and equipment of industry and commerce; the promotion of safe, reliable, and economic installations; industry leadership in energy conservation and environmental, health, and safety issues; and the creation of voluntary engineering standards and recommended practices. »

By keeping members abreast of current developments in the area of technology in electricity and electronics, IAS ensures their empowerment, both personally and professionally.

In fact, all IAS members have the opportunity to attend informative meetings, seminars and conferences related to industrial progress. They have also access to valuable professional publications such as journals, conferences, and standards in electrical, electronics, and all related technologies. Moreover, IAS sponsors a range of books and periodicals within its technical specialty, ensuring a stronger professional knowledge connection. Furthermore, it is one of the principal contributors to IEEE Standards, and Working Groups are active throughout the Society.

In addition, committees within IAS play a central role in establishing over 25% of all IEEE industry standard, providing its nearly 10,000 worldwide members with a chance to advance their industry.

Through these activities, every member can make a real difference and contribute to a more productive and safer industrial environment.

IEEE IAS Chapter INSAT Student Branch

The chapter was created on October 2014.

The reason behind its foundation is that a group of students believed how important it is for them, as well as their peers, to put their theoretical knowledge into practice at an early stage of their education in order to develop skills enabling them to become potential leaders and to have a prosperous career path.

The actual chairman is Slim Bouakez and the advisor is Mrs Afef Benani.

Counting 113 active members, this chapter has been, since its creation, one of the most active chapters of the IEEE INSAT SB.

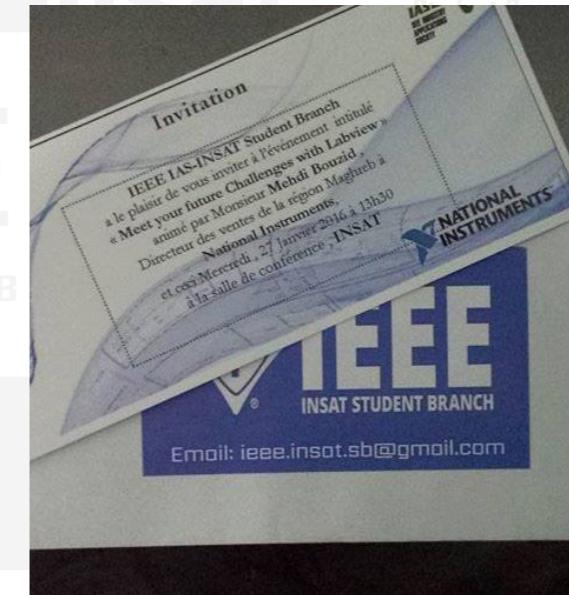
The most memorable achievement of last year's IAS team is that Zoubeir Zarrouk, former IEEE IAS Chapter INSAT BS, received last October 2015 the 2nd prize of the IAS Myron Zucker Undergraduate Student Design Contest; for his project entitled "Design and implementation a simulation tool for the Reconfigurable Smart Grid" during the IAS Annual Meeting in Dallas, Texas.

By aquiring a clear vision of the industry worldwide, a student can go beyond its studies' restrictions and make a valuable impact in the industry.

Try LabVIEW, exceed your own expectations ...

Most student engineers are led in their lives by the desire to achieve and make a change, and have therefore set plans and projects and let them grow to finally become part of them. They may even day-dream about the rewards they're getting for their inventions, but when they get down to reality everything just gets upside down! Coding those endless programs just becomes their worst nightmare ... Aware of the challenges students will face in the future, the IEEE IAS Chapter INSAT Student Branch set up a series of events that would make the student's work a lot easier. In fact, the IAS team organized two events to introduce LabVIEW to those students.

Wondering what's LabVIEW?



Standing for Laboratory Virtual Instrument Engineering Workbench, LabVIEW is central to NI's unique platform-based approach to engineering and science applications that have already ensured the progress of various industries all around the globe.

The National Instruments Corporation or NI is a renowned American company that manufactures automated test equipment and virtual instrumentation software in order to guarantee flexible technology solutions.

Commonly used nowadays, LabVIEW accelerates the productivity of engineers and scientists. Its graphical programming syntax enables you to

visualize your engineering system and ensures the conversion of what you've drawn into text, overcoming complexity problems. In other words, you just have to draw your circuit the same way you draw it on a whiteboard.

« I've done a lot of projects so far, and I've always searched for a software that would enable me to program without having to write a code, so for me LabVIEW is a huge discovery and I will use it from now on. » - Wassim Welhazi, IMI 4, MyRIO Card workshop participant

Its specificity is that it accommodates with all measurement hardware, existing software, and IP while taking advantage of the newest and most advanced technology. Moreover, it offers access to comprehensive analysis and signal processing libraries.



Lessening test times and delivering rapid and effective solutions based on collected data, LabVIEW has been the key to expand and test the Internet of Things (the network of physical objects connected to computer-based systems).

To keep track of the evolution of this new technology, the IAS team organised a conference by Mr. Mehdi Bouzid (an Electrical Engineer graduated from the ENIT (National Engineering School of Tunis) in 2007, and who is currently working for National Instruments as Field Sales Engineer for the whole Maghreb area).

The event was entitled « Meet your future challenges with LabVIEW » and was held on January 27th, 2016 behind INSAT's doors.

Meet your future challenges with LabVIEW

As an introduction, the participants were called to speak about their inspiration, as it is the engine that pushes



engineers to reach their goals. Afterwards, they discovered the NI's vision of education. After setting a comfortable atmosphere, our lecturer explained the functioning of LabVIEW with a real-life simulation that made it a lot easier for its audience to assimilate the theoretical part of the presentation.

Before ending the information session, Mr. Mehdi spoke about the regional NI Graphical System Design Musabaka 2016 that offers engineering students the opportunity to win big prizes for presenting a project using NI LabVIEW graphical development environment. Even though the subscriptions' deadline has passed for this year, this competition takes place every year, so future participations are possible.

After making this first step towards LabVIEW promotion among student, IAS team envisaged a workshop to familiarize these future engineers with this software using



IAS INSAT SB Student Chapter executive board:
Chair: Slim Bouakez
Vice chair and Treasurer: Islem Cherif
General Secretary and external relations manager: Zeineb Bouzid
Media: Mariem Loukil
HRM: Oumaima Ben Amor



NI myRIO Card.

The event was entitled « From Student to Engineer: Preparing Future Innovators with the NI LabVIEW myRIO » and took place on March 2nd, 2016 also at INSAT.

What's MyRIO Card?

As students' need to work with the devices they will use in their future careers as professional engineers are exponentially growing, the NI launched in August 2013 myRIO card, a new portable embedded device that enables students as well as educators to design real and complex engineering systems. NI myRIO delivers the powerful hardware and software technology needed for students to complete meaningful projects while gradually learning advanced concepts in embedded and FPGA programming (A field-programmable gate array (FPGA) is an integrated circuit that can be programmed in the field after manufacture).

From Student to Engineer: Preparing Future Innovators with the NI LabVIEW myRIO
« It's been a long time since I've been interested in learning how to use LabVIEW but I don't like tutorials, I find them boring, so this workshop was my opportunity » - Wassim Welhazi, IMI 4, MyRIO Card workshop participant

During the workshop, also hosted by Mr. Mehdi Bouzid, the participants had the opportunity to discover the card's architecture, features and components, learn about its advantages and manipulate it. They were also invited to resolve an exercise in groups. Team work helped lighten the mood. And finally, a video presentation of some projects done using myRIO card was showed to the participants, representing a living proof of how powerful this device can be, taking the Industrial applications' projects to another level.

« The organization was perfect ... all the details were taken into consideration. Besides, we weren't many to attend this workshop so the atmosphere was quiet and the communication with our host was really fluent ... we could hear him really well and ask him questions. » - Jerbi Amani, IMI 4, MyRIO Card workshop participant

« The first step in learning something is always the hardest. This workshop just helped us do it and gave us the motivation to keep on discovering the advantages this product has to offer. » - Hichem Bellali, IIA4, MyRIO Card workshop participant

While many engineers around the world ignore the existence of this NI's product, the participants in this workshop are already planning to implement their future projects using the LabVIEW technology. « I'll use LabVIEW in my PPP Project, said Wassim, besides, I'm participating in the Musabaka 2016, I'll use MyRIO Card to concretize my project. »



Lean Manufacturing ... A new method to lean on

Have you ever heard about the several wastes industries are suffering from? Starting from energy to time loss during the industrial process, many companies nowadays are spending more money on futile actions. The avoidance of waste was the goal of many researchers. Learning from anterior experiences, Lean Manufacturing has become a widely used method that meets both industrial owners' and costumer's needs.

That's why, IEEE IAS Chapter INSAT Student Branch introduced this method to engineering students by organizing a tow-day certified training (International certificate) on Lean Manufacturing in collaboration with Planet Formation International PFI Consulting (a professional training and consulting firm, and the third largest industrial hub in Tunisia). This training took place on February 27th and 28th, 2016.

But what's Lean Manufacturing?

Lean manufacturing or « lean » is a systematic method for the elimination of waste ("Muda") within a manufacturing system (« Muda » is the Japanese for futility).

In fact, Lean principles are derived from the Japanese manufacturing industry, more precisely from Toyota Production System (TPS). After becoming the world's largest automaker, all eyes were focused on this company, trying to understand the secret that made her thrive, that's why the Lean Manufacturing gained a large recognition.

To adopt the lean method, you should first establish distinctions between value-adding activity, waste and non-value-adding work which is waste that must be done under the present work conditions. Then, know the original seven muda that reduce an organization's profits, competitive edge and customer satisfaction. These wastes are transport, inventory, motion, waiting, overproduction, over processing and defects.

Adopting the lean manufacturing directly ensures the reduction of operating costs, cycle time and non value-added activities.

This way, you not only guarantee just-in-time production, but you also make better use of employees' time by focalizing their brainpower in value-adding activities.

During the training, the participants, in the number of 19, received a comprehensive theoretical presentation of lean illustrated by examples and simulations in order to enhance their understanding of this method. For example, one of the tasks they were invited to accomplish was to create a game following a classical procedure and then recreate the same game using lean, which made them aware of the time and money this method enabled them to save.

« The pace of work was adapted to our mood, we had breaks when we felt tired which enabled us to take advantage of every moment of the training ». -Insaf Sammouda, IMI 4, Lean Manufacturing training participant

Although they had a lot of new information to assimilate, the trainees never lost their dynamism as they found it easy to network on many occasions, building valuable relationships. In fact, presenting themselves at the beginning of the training helped them overcome all barriers to communication.

« When I went back home on the first day, even though it was late and I had course all day long , I was already waiting for the following day to discover more about lean. In the middle of the training, I kept on remembering all my traineeships, and realized how much time I could have saved if I have attended this training a couple of years earlier.» -Insaf Sammouda, IMI 4, Lean Manufacturing training participant

What makes this training even more interesting is that the participants will have access to "Leoni Productivity System" (The department of Lean Manufacturing) at Leoni Wiring Systems, Sousse during an industrial visit also planned by IEEE IAS Chapter INSAT SB for this month



Upcoming Events: March 2016, IEEE IAS Chapter INSAT SB will organise a training about « Soft Skills » to know all about your personality traits, communication skills , leadership , managing people .. ect..

March 2016, IAS will organise industrial visits in order to have practical manufacturing knowledge

April 2016, IEEE IAS Chapter INSAT SB will organise , with the collaboration of « Tunisian Red crescent » a medical training about « emergency first response » which teach you how to follow steps for emergency care to provide every possible chance of survival while waiting for emergency medical services to arrive.

April 2016, IEEE IAS Chapter INSAT SB will provide you with a training about « Lean six sigma green belt » to learn about six sigma tools and the standard principles of Lean .

Mai 2016, IAS will organise visit to automotive industry in Tunisia .

IEEE Power and Energy Society INSAT SB Student Chapter

The IEEE Power & Energy Society (PES), formerly the IEEE Power Engineering Society, is the oldest society of the Institute of Electrical and Electronics Engineers (IEEE) focused on the scientific and engineering knowledge about electric power and energy .

The Power & Energy Society (PES) provides the forum that helps us sharing the latest in technological developments in the electric power industry .

The developing standards guide the construction of equipment and systems, and it educate the members of the industry and the general public .

PES's mission :

PES's main purpose is to inform about any scientific discovery and engineering information on electric power and energy for the betterment of society.

PES offers conferences, networking opportunities, publications and educational material that help our members stay-up-to date on the latest advances including: renewable energy system design and integration.

THE MEMBERSHIP BENEFITS :

- Free subscription to PES award-winning Power & Energy magazine
- Free digital subscription to Electrification magazine
- Free access to over 1000 technical reports, tutorials, videos and presentations on the PES Resource Center
- Free membership in your local PES chapter
- Discounts at dozens of PES sponsored or co-sponsored conferences and meetings in your area and around the world
- Discounts to technical tutorials
- Access to dozens of live and archived technical and professional development webinars
- Receive Continuing Education Units or Professional Development Hours by attending our Plain Talk Series
- Discounted subscription rate to five PES and four Sister Society peer-reviewed technical journals
- An IEEE membership also include many benefits



Air pollution is one of the biggest problem nowadays, trying to solve that, is and still the major work of all engineers and scientists. The basic purpose of The IEEE-PES is to show to the INSAT's student and other IEEE members that we can be a part of that purpose and that being a student has never been an obstacle.

ECO -EXPO is an ecology-themed exhibition and a competition launched by tunirobots 16.

This display concerns two main domains: Energy waste's recycling and valuation.

Our PES members participated with a project named "Recycling party".

It was Mohamed Abidi's idea, PES and EMBS member and an INSAT student, with the rest of the members' help.

The project consists of producing biodiesel from used vegetable oil.

Aiming to remedy air pollution's impacts on the environment, PEs members had the idea of showing the benefits of substituting normal diesel with biodiesel.

The biodiesel is an alternative fuel for any diesel-engine using vegetable oil or re-used oil.

They allow not only producing the necessary energy for the mechanical functioning of the engines, but also in decreasing the broadcast and emission of those harmful gases during their combustion , compared with the conventional diesel.

- The advantages of the project:
- Physical-chemical characteristics of the conventional fuel.
- No modification needed for the engine normally used.
- This economic-energy-goldmine saves money for its main raw material is used vegetables' oil.
- A significant drop down of toxic gas' emission.

The members of PES whom are going to synthesize the biodiesel won't be stopping at this stage. So, to show that the alternative fuel's characteristics are close to the known fuels, an electric engine will be fastened to a diesel engine. The electric energy produced will nourish a work-on-electric-power device with the required energy supply and VOILA.

The project is not ready yet, there is so much to do, let the challenge begin.



IEEE INSAT SB robotics & automation society student Chapter

This year the IEEE Insat Student Branch gave birth to its first edition of the RAS Chapter, offering even more resources, more opportunities to apply and sharpen the skills of its members.

But first, what is the IEEE RAS ?

Being one of the 39 societies in the 10 technical divisions of the IEEE, the RAS (Robotics & Automation Society) includes 11000 members.

The Robotics & Automation Society (RAS) strives to advance innovation, education, and fundamental and applied research in both Robotics and Automation. The society's goal is to give its members the resources and quality trainings in order to make them competent and at ease with this specialized field.

So how does the RAS operate to achieve such a goal ?

The RAS fosters research and education, professional development and industrial and commercial applications of R&A through

- Conferences
- Workshops & Tutorials
- Certifications

Who are we ?

The Executive Board of the RAS Chapter in the INSAT Student branch is the following:

Chair: Firas Hamdi

Vice chair: Seifeddine Ben Boussaha

General Secretary: Islam Cherif

Treasurer: Elyes Sammouda

Technical Manager: Issam Manai

Solidworks Training session

A Certification in Solidworks for a solid future.

In this age of technology and digitalization, formerly hard tasks gained a whole new level of flexibility thanks to the disponibility of capable softwares. Tasks like modeling, equation solving and simulations had become easier than ever and more accurate. A whole sea of opportunities and potential are now in the hands of mechanical and industrial engineer among others. A limitless universe of possibilities at the disposition of all, without worrying about resources. In order to give our engineers their best chance, the IEEE RAS Chapter, offered to its members the opportunities to take part of this world of developed technology by offering them a certified training in Solidworks.

Solidworks, what for ?

SolidWorks is a solid modeling computer-aided design (CAD) and computer-aided engineering (CAE) computer program that runs on Microsoft Windows. It provides a platform for conceptualization and a medium to convey ideas in industrial engineering that would otherwise be difficult to communicate. It is very difficult to demonstrate how a new mounting bracket will work on an assembly like without the use of SolidWorks. In fact it is hard to sell an engineering modification proposal to management without the use of a 3D model or a gozinto chart with sub assembly parts exploded view the development of 3D models becomes necessary.

Want the best in 3D design ? Choose Solidworks.

Productivity

*Intuitive 3D design puts your focus on

innovation

*Built-in intelligence accelerates your design process

*Improved collaboration drives new ideas for your business

*Lower your total cost of ownership with higher process efficiency

Power

*Create 2D drawings faster with automatic updates for 100% accuracy

*Speed design and ensure accuracy with focused industry tools

*Test real world conditions and make sure it's right before you build it

*Design with the environment in mind for innovation and growth

Community

*Connect and share with an active, growing user community

*Attract new talent and ramp up design innovation

*Take advantage of the network to accelerate your business

*Extend your 3D design capabilities through our strategic partnerships

The certificed training offered by the IEEE RAS Chapter was titled "Solidworks day" and took part on the 5th of March and was conducted by Mr.Ahmed Braham from Emworks. The program offered its member the eligibility to pass 3 exams:

*CSWA

*CSWA-Simulation

*CSWP-Drawing Tools

STM32 Training Session

Integrate The STM32 microcontroller integrated circuits in your life

What is the STM32 microcontroller ?

STM32 is a family of 32-bit microcontroller integrated circuits by STMicroelectronics. The STM32 chips are grouped into related series that are based around the same 32-bit ARM processor core, such as the Cortex-M7, Cortex-M4F etc. Internally, each microcontroller consists of the processor core, static RAM memory, flash memory, debugging interface, and various peripherals.

In this new digital world where devices are almost taking over our everyday lives, things like smartphones, TVs, computers, etc.. it is only essential for our engineers to have the best training in the domain of embedded systems. And you can't say embedded systems without implying microcontrollers like the STM32.

Going with this spirit, the RAS Chapter INSAT Student Branch started this mission by first, launching a STM32 Training Session, Level1 on February the 17th this year. The training lasted 7 hours and therefore was broken down in two days, the 17th and the 24th. It was hosted by Mr.Anouar Ammar from CSF center, an application engineer with 10 years experience in Microcontroller field and Embedded Development. This training session included two major parts:
*Get familiar with STM32F4xx peripherals and features.

* Introduce and practice the STM32F4xx firmware Library.

And finally, in order to keep giving its members the best opportunities, the RAS intends to prepare them to participate in Tunirobots16, the national and annual day of robotics in Tunisia, specifically, the "Concours 1", "Concours 2" and the Challenge Mazda.



IEEE INSAT SB women in engineering affinity group

Birth of IEEE women in engineering

IEEE WIE was officially formed in 1994 and was a committee of IEEE Board directors.

As of 1 January 2012, WIE is now a committee of the IEEE members and geographic activities' Board.

Who is IEEE WIE?

IEEE WIE is the largest international professional organization supporting women in engineering and technology; it is keeping the balance through equal participation of women and men. Its mission is to facilitate the recruitment and retention of women in technical disciplines.

In Tunisia section, WIE INSAT AFFINITY GROUP has about 80 members

The affinity group is currently chaired by Syrine Hssan.

Executive Board

Syrine Hssan: chair (industrial chemistry)

Dhia Rzig: vice chair (software engineering)

Marwa Teyeb: secretary general (industrial chemistry)

Souha kacem: treasurer (industrial chemistry)

Dorra boughzala: media manager (network and telecommunication)

WIE objectives:

IEEE WIE is an organization that creates opportunities to learn about engineering and promotes the value of education among female members.

The organization facilitates technical specialization through collaborations with technical societies in order to motivate young engineers and help them to strive for change.

It also aims to inspire more women to incorporate the important work they do, as engineers, into their lives.

The IEEE WIE aims to change thinking among social life to demonstrate the important work, men and women they

do collectively using their diverse talents to innovate for the benefit of humanity.

What'sWIE INSAT SB AFFINITY GROUP planning for the second semester?

- An opening ceremony on March the 9th.
- A debating contest versus JCI (jeune chamber international)
- Two training sessions: public speaking and entrepreneurship, during the month of April.

-IEEE WIE insat holds this year the program STAR 'the IEEE student-teacher and research engineer /scientist". It has redefined as a program that represents all pre-university outreach activities. The main objective of 'STAR' is to improve the perception of the field of engineering and continue to attract more female potential recruits to pursue an engineering career.

What are the benefits of being an IEEE WIE member?

IEEE women in engineering provides members with the opportunity to network at a local level though WIE affinity groups

Currently, there are over 355 IEEE WIE affinity groups worldwide organizing and hosting diverse activities including guest speakers, workshops and seminars.

All members are encouraged to join and participate in their local group activities to promote growth within WIE affinity groups.

Join us!



Opening Ceremony Wie IEEE INSAT SB

The IEEE women in engineering affinity group celebrated their opening ceremony that took place on March the 9th at the "hall" of INSAT

The day kicked off with a presentation introducing the affinity group as a largest international professional organization supporting women in engineering and technology. They also spoke about the role of IEEE WIE in College life, membership benefits and perspectives of WIE future development.

To keep an interactive atmosphere, three games were organized during the morning session: the organizers showed interest by interacting with participants, asking questions, which tested their knowledge about cultural issues.

There was a game under the name "he and she", a competition between a girl and a boy asking each other questions and the winner is the one with most amount of correctly answered questions.

Another game consisted in finding the female celebrity by throwing some clues here and there to help the participants. At the end of each game, organizers awarded winners with the ultimate kind of prizes: FOOD (cupcakes, yoyo, and doughnuts). There were bracelets and movie tickets as well (how cool is that?).



Furthermore, the affinity group had the honor of welcoming two associations ("association tunisienne des femmes ingénieurs and femmes leadership"), they talked about their field of activities, and how they showed the importance of women at work in the society.

During the afternoon session, three conferences were held by three successful women in the engineering field, starting with Mrs Samia Chelbi, the co-founder of the first school of computer graphics in the north of Africa. She is the president of CREATEC (a Tunisian association of creative technologies.). She pilots the project DigiArt Living Lab, the first living lab in North Africa. Afterwards came Mrs Fatma Nawel Ezzine's turn, an engineer and a teacher, an inspirational women who loves challenges and adventures, a women who believe that engineering is not only a career but also a way of thinking.

The last amazing women was Mrs Amira Chenouir an associate and CEO at HADRUM, a product lead and Scrum Master at I.T.Grapes and a head organizer of doridcon



INSAT En Lumière

The day "Insat en Lumière" dedicated to the International Year of Light, was organized by IEEE INSAT SB and in collaboration with youth for science and was held Wednesday, November 25, 2015. The day's program included: lectures, oral presentations, posters and interactive workshops. The event "insat en lumiere" aimed primarily to educate people about the importance of light and its implications in the various fields of study including: physics, chemistry, biology etc. Some of the topics were about: Spark, fire, flame: (chemistry and physics of fire, fire and man, symbol and effect ...), laser (physics of lasing interaction light-matter, study of the laser cavity ...), color gemstones: idiochromatic allochromatique and colored gemstones, color identification of the components and their effects ...) Lights and technologies: the impact of LED lights on the health-lighting -the new lighting technologies and Useful ...). The event also helped to develop a sense of expertise and innovation among students and to forge the link between theoretical knowledge acquired and practices that have been proven in the field.

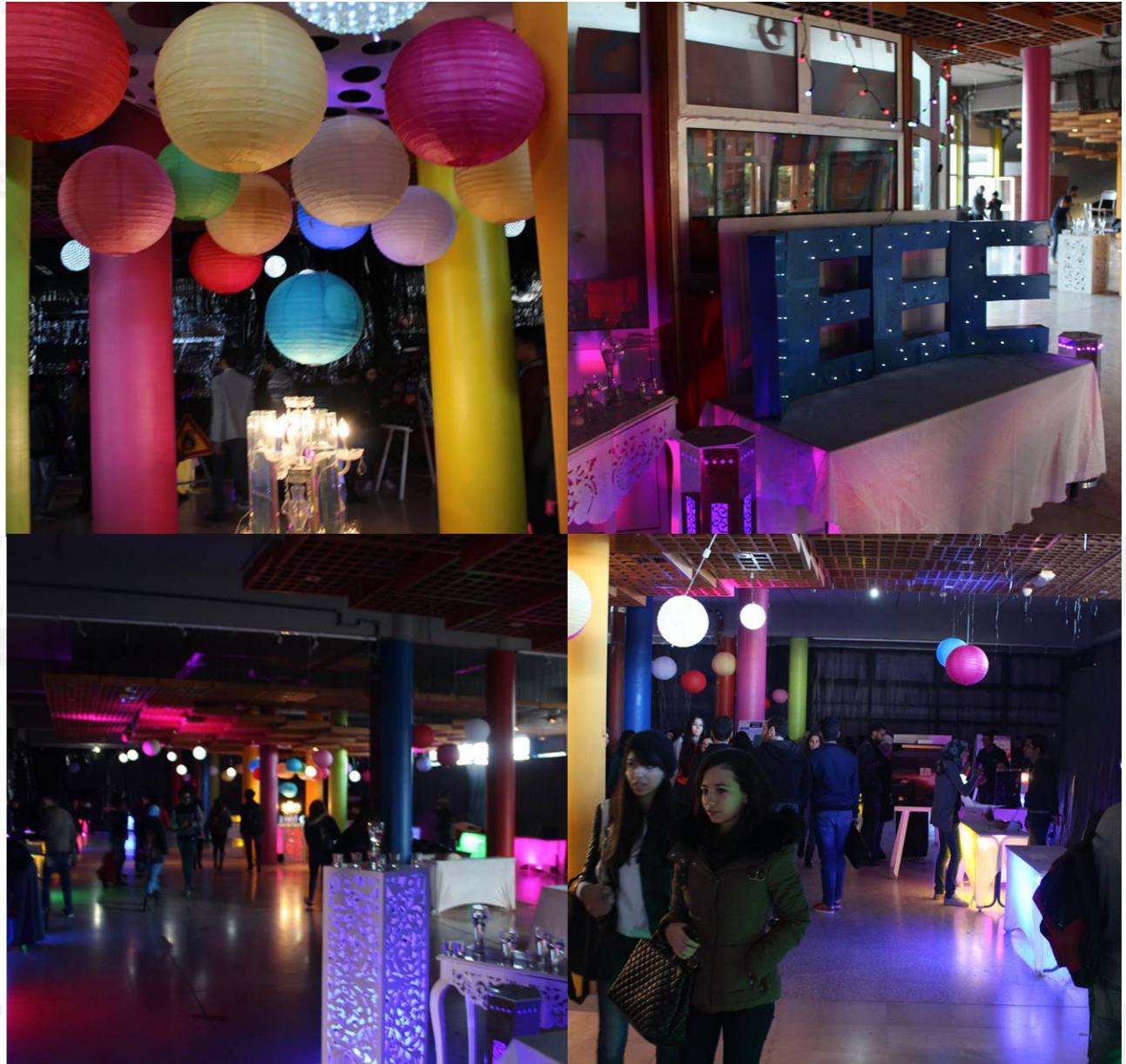
And what's more fun than adding an educational nature-themed game to the mix? The humain-circumcised board game brought back childhood memories apart from testing the participants' light-related knowledge. And of course there were rewards when answering all the questions



correctly.

The day hasn't been over yet for there were more and more before the end of it. Our conference rooms held 2 types of presentation and 4 conferences. Our president Skander Mansouri was the first to go by introducing IEEE INSAT STUDENT BRANCH association. Mr. Alaya Bettaieb came up next presenting YFSF (young for science foundation) in which he occupies the president's post. The conferences were really stocked with useful knowledge and information from phototherapy, presented by med school 3S association, to "light and flora", provided by Professor Abderrazak Smaoui, A botanist professor at Borj Cédria's Biotechnological center, to projects presentation under the theme "exploration of light" by one of our own professors, Professor Nacer Ayed, a chemistry professor and YFSF vice president, finally closing our rich event with a conference evolving around "sundials" submitted by Fathi Jarray, astronomy, gnomonic and Islamic epigraphy historian and a director of the Calligraphic arts' center.

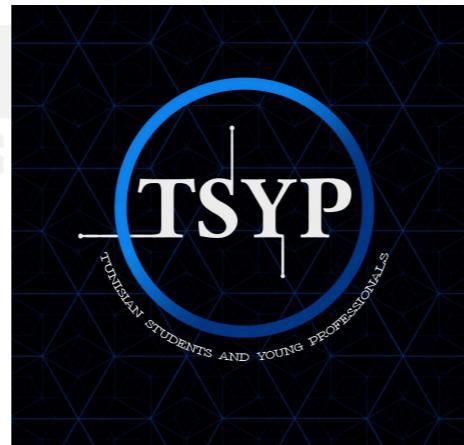
"INSAT en lumière" was this year's IEEE INSAT SB first event and yet it has surpassed all the expectations being productive, fruitful and rewarding.



Tunisian Students and Young Professionals congress

This year's TSYP was brought to life and, success by IEEE's student branch in INSAT. In the hotel Taj Marhaba, Sousse, this event has taken place from the 20th to 22nd of the month of December. While some have taken advantage of these couple of days to start their holidays, some have done the expectedly wiser and more rewarding choice of attending the event, and I believe most of the participants have been rightfully satisfied even with the presence of some minor hiccups.

As with most events prepared by Insatiens and members of IEEE, the event was impeccably organized. Although the slight standard Tunisian delay was present throughout the event it did not affect the quality of any of the seminars. From the opening ceremony that was initiated by Mr Habib Kammoun, the head of Tunisia's IEEE student branch, to the playful but effective icebreaker activities, and last but definitely not least the extremely interesting seminars the quality of this year's TSYP was undeniable. The seminars' topics ranged from personal development to project management technical skills and were brought to life by the renown Mr Fares ben Souilah, Mr Walid Mbarek, Mr Taher Mestiri, and these few names only scratch the surface. All of these conferences have managed to strike the right balance between entertainment and education. And let's not forget TSYP contest during which, through all of the 3 phases of it, the rival IEEE



Student Branches competed for the right to host next year's congress. ULT SB were granted a glorious victory after securing the lion's share of the votes. Last but not least, along with all the exciting activities, a startup project presentation competition occurred, which was in preparation for Mind the Gap contest, a generation gap centered competitive event. The event's only shortcoming was its length, although due to time and financial constraints, it's perfectly understandable.



How to use your IEEE account effectively ?

The IEEE site; www.ieee.org has numerous features and offers a variety of online services that can be used by its members through their IEEE accounts. However, the site can be a bit overwhelming and quite hard to use.

First of all, each IEEE member has access to "myIEEE" through ieee.org/myieee which is a personalized gateway to what IEEE has to offer. It's an interactive web portal where you can find all your IEEE account information, your memberships and subscriptions, IEEE news...etc. In fact, members can add societies to their memberships by selecting the chosen societies under the "Membership and Services" section and then completing the payment procedure or using promotion codes if there is any.

In addition to that, IEEE members are offered discounted access to over 3.5 million scientific and technical documents, published by the IEEE and its partners, through IEEE Xplore digital library, which is accessible on this site ieeexplore.ieee.org. Also, IEEE members receive each month a digital copy of the IEEE Spectrum which is the flagship magazine of IEEE containing the major trends and developments in technology, engineering, and science. Not to mention, chapter's magazines which are shipped internationally to all society members.

On the other hand, IEEE members are being constantly informed and reminded about the competitions, international conferences, travel grants and career alerts offered by the IEEE via eNotice services. This electronic subscription notifies IEEE student members of the scholarships, grants and fellowships that they can apply for by submitting their projects and papers for consideration and having the

opportunity to win and gain peer recognition for their efforts. Furthermore, IEEE offers several online platforms, which are available exclusively for IEEE members, such as IEEE Collaboratec, IEEE TV, IEEE Jobsite ...etc. These platforms can be used as research, collaboration, professional networking and career opportunity tools.

In brief, these were some of the features available on the IEEE site. There are definitely much more to be explored.

Considering all the above, it is certainly both a challenge and a blessing getting access to the huge amount of information and opportunities that are being offered everyday by the IEEE for its members. Therefore, it is necessary that we take advantage and use these tools to better ourselves and our communities.



Fun Zone

99 little bugs in the code
99 bugs in the code
Patch one down, compile it around
117 bugs in the code

A programmer puts two glasses on his bedside table before going to sleep. A full one, in case he gets thirsty, and an empty one, in case he doesn't.

Java and C were telling jokes. It was C's turn, so he writes something on the wall, points to it and says "Do you get the reference?" But Java didn't.

Why C gets all the chicks and Java doesn't? Because C doesn't treat them like objects.

Your mama's so FAT she can't save files bigger than 4GB.

Your mum's so fat, the run time of size(Your_Mum) is NP-Hard.

Q: How many Microsoft engineers does it take to change a light bulb?

A: None. They just change the standard to darkness.

A radioactive element

walks into a bar.
Everyone dies.

Why do Java Programmers wear glasses?
Because they don't C#.

Yo mama's just like a struct. She ain't got no class!

Your mother is so fat, the recursive function to calculate her mass causes a stack overflow.

Two atoms were walking down the street. One atom says to the other one "I've lost an electron!"

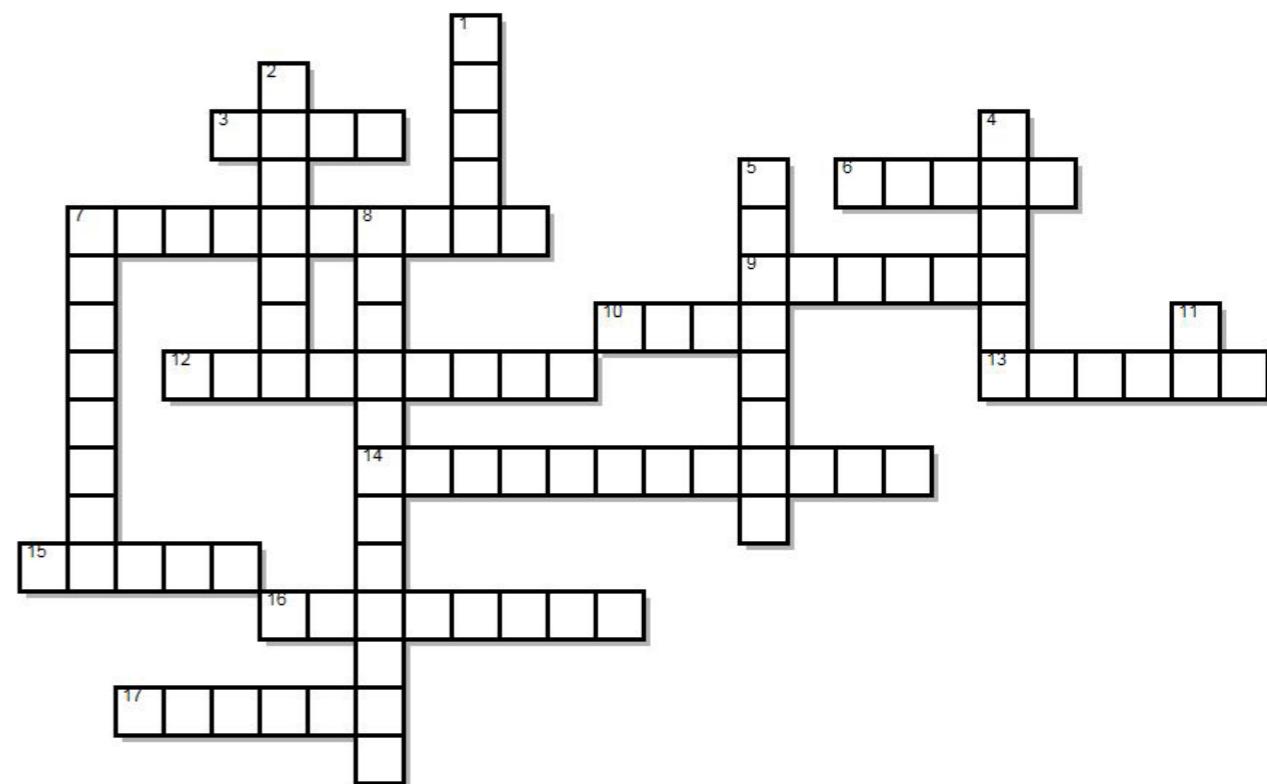
The atom replies "Are you sure?"

To which the first atom replies "Yes, I'm positive."

My imaginary problems just multiplied by themselves, things just got real.

Why cant you trust an atom? Because they make everything up!

Geek Puzzle



ACROSS

- 3. Invented Steam Engine
- 6. Invented Alternating Current
- 7. Invented the Screw Pump
- 9. Author of the Opticks
- 10. Invented the Apple
- 12. 1.570796
- 13. Formulated 2 laws of thermodynamics
- 14. 299,792,458
- 15. Wrote The Laws of Thought
- 16. Product of mass and velocity
- 17. Cross product of distance and force

DOWN

- 1. Discovered Radioactivity
- 2. Dropped balls from the Leaning Tower of Pisa
- 4. 6.6260755*10^-34
- 5. Developed General Relativity
- 7. 6.022*10^23
- 8. 2.71828
- 11. 3.141593

IEEE INSAT SB Members

BIO:
ABBES ARIJ : BIO
AISSAOUI REFKA : BIO
AKERMI MERIEM : BIO
AQUINET GHADA : BIO
AQUINET FIRAS : BIO
ASTA NADIA : BIO
BANGAJI CHAIMA : BIO
BAROUNI KALTHOUM : BIO
BDIOUI ASMA : BIO
BEL HAJ HSSIN LAYSEN : BIO
BEN AMARA MAHJOUBA : BIO
BEN HSSEN RAYEN : BIO
BEN MABROUK WIDED : BIO
BEN MANSOUR IBTISSEM : BIO
BEN RABII SARRA : BIO
BEN RAYEN KHALIL : BIO
BEN SAAD SYRINE : BIO
BEN SALAH MYRIAM : BIO
BETTAIEB NIHEL : BIO
BOUALLEGUE MELEK : BIO
BOUALLEGUE OUMAIMA : BIO
BOUKRAYA NESRINE : BIO
BZIOUECH MARIEM : BIO
CHAKROUN EMIR : BIO
CHTIQUI GHASSEN : BIO
DALY AMENI : BIO
ENNACER DORSAF : BIO
ESSID AMANI : BIO
FAKHFAKH NESRINE : BIO
CHOUMA MYRIAM : BIO
KANZARI KENZA : BIO
KASTELLI SLEH : BIO
KECHRID INES : BIO
KHABTHANI RAYA : BIO
KHORCHANI TAKWA : BIO
LAMINE MARIEN : BIO
LANOUAR FERIEL : BIO
MALAAOUI KHOULLOUD : BIO
MAHFOUDH RYMA : BIO
MALLOLI ADEM : BIO
MEHRI MAYSSA : BIO
MEMMI ONES : BIO
REBAI AMENI : BIO
SETTARI MEHDI AZIZ : BIO
TISS ASMA : BIO
TURKI NOURHENE : BIO
CH:
ABIDI MOUHAMED : CH
BACCAR NADA : CH
BACCOUCHE HALE : CH
BEN BOUZAIN ABIR : CH
BEN MRAD AMEL : CH
BRAHMI CHAIMA : CH
CHANNOUFI IMEN : CH

CHERMITI AHMED : CH
CHTINOUI MARWA : CH
FERNNANI HASSEN : CH
FNITER RIHAB : CH
GDOURA ASMA : CH
GHAZOUANI NIZAR : CH
GHODHBAN RAED : CH
HEDRI MAHDI : CH
HSSAN SYRINE : CH
JADOUADI HADHEMI : CH
JEBALI SYRINE : CH
JOUINI HAIFA : CH
KACEM SOUHA : CH
KHEDHIRI KHAOULA : CH
KHIARY FARES : CH
LAAYOUNI SYRINE : CH
LAHMER FETEN : CH
MALOUCHE NOUHA : CH
MHADHBI AYA : CH
MRAD SARRA : CH
NASR EMNA : CH
OUNISSI HEDIA : CH
RACHDI OUMEIMA : HC
REZGUI YOSRA : CH
SAIDI TAKWA : CH
SALLAMI NOUR : CH
SALLEMI ANISSA : CH
TEBAL MANEL : CH
TEYEB MARWA : CH
ZAGHOUANI TAOUFIK : CH
ZOUARI HELA : CH
GL:
ABBASSI FEDI : GL
ABDESSALEM AHLEM : GL
ALOUANE MAHDI : GL
AMARA ANAS : GL
AYARI SEMEH : GL
BEN ACHOUR AMIRA : GL
BEN AISSA KHALIL : GL
BEN AMOR WASSIM : GL
BEN HAMDEN MEHDI : GL
BEN SALAH FERDAOUS : GL
BEN YAHIA MARYEM : GL
BESBES NOUR : GL
BESBES NESRINE : GL
BOUATTOUR SALMA : GL
CHARFI IHSEN : GL
CHEMLI KAIS : GL
DIOURI ASMA : GL
EL FALEH KHAOULA : GL
EL KAMEL MAROUANE : GL
GASSOUMA SYRIEN : GL
HABECHA MOUHAMED : GL
KACEM ANOUAR : GL
DIOURI ASMA : GL
EL FALEH KHAOULA : GL
EL KAMEL MAROUANE : GL
GASSOUMA SYRINE : GL

LAMINE NOUHA : GL
LOUATI MAROUNA : GL
LOUKIL SKANDER : GL
MARS ICHRAK : GL
MHIRI MOHAMED : GL
MOUSSI NEILA : GL
MRABET INES : GL
REBAA MERIAM : GL
RIAHI MARIEM : GL
ROMDHANE MOHAMED : GL
RZIGI DHIA ELHAQ : GL
TROUDI GHAITH : GL
YAZIDI ZIED : GL
ZEBDA OUSSAMA : GL
ZGHAB SOULEIMA : GL
IIA:
ABDELKADER RAYEN : IIA
ABDESSALEM HAYTHEM : IIA
AISSAOUI SEMAH : IIA
BEN ARAB AHMED : IIA
BOUGACHA OMAR : IIA
BOUGACHA OMAR : IIA
BOUSARSAR MED LAMINE : IIA
BOUSSAHA SEIF : IIA
CHALOUL ANIS : IIA
CAHMI MED CHAOUKI : IIA
CHEBBI MERIAM : IIA
CHERIF ISLEM : IIA
ERNEZ MUSTAPHA : IIA
FAIDI SAIF : IIA
GHARBI AYMEN : IIA
GUFRECH AMANI : IIA
HAMMAMI HIBA : IIA
HAMDI FIRAS : IIA
JAOUADI RABEB : IIA
JAZIRI SARRA : IIA
KEFI AHMED : IIA
KHALFAQUI RIDHA : IIA
KHOIFI OUSSAMA : IIA
LABIDI AHMED : IIA
LAJNEF SEIF : IIA
LIMAM RANA : IIA
MAKNI OMAR : IIA
MANNAI ISSAM : IIA
MARZOUGUI MAHER : IIA
MEDDEB IHEB : IIA
MERJI NESRYNE : IIA
SAMOUDA ELYES : IIA
SIoud HOUSSEM : IIA
ZAOUAQUI NADER : IIA
IMI:
ABDELKEFI FATMA : IMI
BOUAEB NIZAR : IMI
BEL HAJ HMIDA KHALIL : IMI
BEN ABDELI FATTEH EMNA : IMI
BEN AISSA MOHAMED : IMI
BEN AMR OUMEIMA : IMI
BEN AMOR MOLKA : IMI
BOUAKEZ SLIM : IMI W
BOUGUERRE MEHDI : IMI

CHELLY EMNA : IMI
CHERIF SKANDER : IMI
CHTOUROU KAWTHAR : IMI
DAMAK MARIEM : IMI
ELADEL SARA : IMI
ELKEFI RANIA : IMI
FOURATI MOUHAMED ALI : IMI
GMIR KARIM : IMI
JEDIDI AHLEM : IMI
KASSEH SALWA : IMI
KHABKHAB AHMED : IMI
KHADHRAOUI SOUHA : IMI
KHEDHER MEHDI : IMI
KHELIL SKANDER : IMI
RABOUDI AMANI : IMI
REBHI MAHA : IMI
SIALA MARWA : IMI
TAKTAK KHADIJI HELA : IMI
ZAHARZ RANIA : IMI
RT:
AWADI WACEF : RT
BELHASSAN DHAMEN : RT
BEN TURKIA SAHAR : RT
BHOURI KHEILA YOSR : RT
BOUGHZALA DORRA : RT
BOUSSENNNA NESRIEN : RT
BOUZOUITA NOUR EL HOUDA : RT
CHAKER HAYTHEM : RT
FOURATI SYRINE : RT
GARALI MOHAMED SAMY : RT
GHARBI SANA : RT
HARES FATEH : RT
MABROUK SELSABIL : RT
MEGDICHE RAJA : RT
RIABI FATMA : RT
SEHLI JIHEN : RT
SELMI NESRINE : RT
SGHAIER SAIDA : RT
WAILI RIMEH : RT
WAYLEE RIMA : RT
ZARROUK ZOUBEIR : RT
ZAYANI RIM : RT
CBA:
HMAIED MELEK : CBA
ELLEUCH IMEN : CBA
OTHMANE HIBA : CBA
MPI:
AMMAR MALEK : MPI
BEDIOUI KAIS : MPI
BEN AZIZA SYRINE : MPI
BOUZID ZEINEB : MPI
CHERIF EMNA : MPI
DINAR ISMAIL : MPI
DJEMEL AMINA : MPI
HADHIRI ANESS : MPI
KAABI OUSSEF : MPI
KALLEL RIM : MPI
MAALOUL NADHEM : MPI
MOALLA ISSAM : MPI

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If you have any comments or ideas you'd like to see in the upcoming editions or you'd like to join our team, feel free to contact us at **IEEE.INSAT.SB.Magazine@gmail.com**.

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