

IEEE INSAT STUDENT BRANCH MAGAZINE



2ND EDITION

IEEE

IEEE INSAT SB

CS

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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 ethics 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 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

IEEE INSAT Student Branch is a recent Branch of the Tunisia section was created in November 2012 by 12 Student members and a senior member, Mrs.Alef Banani, attached to the Industrial Computing and Automation field.

Presently, it counts more than 300 members in different chapters; PES (power and energy society) EMBS (IEEE Engineering in Medicine and Biology Society) CS (computer society) IAS (industry applications society) RAS (robotics and automation society) and most recently WIE (Women In engineering) Affinity Group.

The executive board is composed of the following members:

- Nader Zouaoui: Chair
- Sarra Ben Rabii: Vice-Chair
- Nouha Malouche: General Secretary
- Emna Ben Abdel Fatteh: Treasurer
- Emna Chelly: Human Resources Manager

IEEE INSAT Student Branch is proud of its achievements so far. Its hard-working members' efforts led, so far, to winning

- The second prize award at TSYP 2013 for the project 'photovoltaic pumping system over the sun'
- IEEE Tunisia Section Exemplary Student Branch for 2014-2015
- Best designed poster at SYP 2016
- 2 students enterprise awards
- Best Tunisia video for star program on TSYP 2016
- Delegation Of Aspiration winner (MESYP)

IEEE INSAT STUDENT BRANCH

IEEE INSAT Student Branch
@ieeeInsatStudentBranch

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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 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.

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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 worldwide community of technology leaders that encompasses researchers, educators, software engineers, IT professionals, employers, and students.

IEEE CS established the 200 technical committees and societies, including the

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.

IEEE computer society

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IEEE's statement on the US Government travel restrictions

The executive board is composed of:

- **Dhia Elhaq Rzig: Chair**

- **Ichrak Mars: Vice Chair**
 - **Meriam Rebaa: General Secretary**
 - **Houcem Kacem: Human Resources**
 - **Sahar Ben Turkia: Technical Manager**
 - **Rym Ben Khamsa: Media Manager**
 - **Ali Bouhlel: Treasurer**



Society Chapter
- INSAT Student
Branch
@INSAT_CS

Computer Society 2016-2017 : Off to a Great Start, with greater things to come ...

IEEE INSAT SB CS started early this year with the second edition of IEEE Summer School , a late August initiative where members and non-members alike were given the chance to discover a variety of technical fields including Android development and User Experience by professional experts in the fields. Through these sessions, attendees were not only given the chance to sharpen their skills, they were also offered the chance to see the world of opportunities that IEEE unlocks.



INSAI CS then carried on with two training sessions and a participation Hub for the famous IEEEXtreme, a 24 hour coding competition known for its high level problems and entertaining yet tiring format. It took place on the 24th of October and was hosted in collaboration with IEEE ULT SB. "I barely got more than a 0, but it was much more challenging, and fun! than I thought it would be" expressed one participant .



Through the month of November , with their limitless motivation and energy, IEEE CS members contributed in the preparation for the 3rd Big Data Meetup at INSAT , as well the preparations for the event IEEE'Energy .

Last but not least, on the 10th of December, IEEE CS members helped teach children with ages ranging from 10 to 12 the basics of programming using the software Scratch as a part of the Hour of Code initiative. Giving it the IEEE twist, the children were also given initiations in the basics of robotics and renewable energies courtesy of members from IEEE INSAT PES and IEEE INSAT RAS. The joy of the children and the IEEEians was echoed through the pictures that many of the latter shared on social networks.



EMBS INSAT 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.

The screenshot shows the IEEE-EMBS homepage. At the top, there is a purple navigation bar with links for TECHNICAL COMMITTEES, JOURNALS, CONFERENCES, MEMBER COMMUNITIES, and MEMBER LOGIN. Below the navigation bar, there is a banner for the "2017 EMBS Awards" with a deadline of January 29, 2017. The banner features a background of colorful, glowing circular shapes. To the right of the banner, there is a section titled "Upcoming Events" with three listed events:

DATE	EVENT	LOCATION
JAN 31 2017	Big Data Conference -	Dubai
FEB 16 2017	BHI-2017 International Biomedical and Health	Orlando
FEB 20 2017	13th IASTED International Biomedical Engineering	Austria

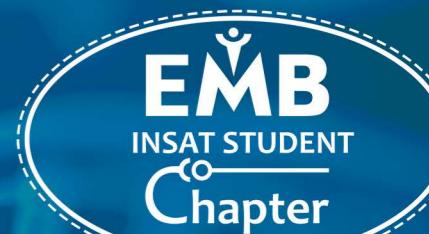
At the bottom of the page, there is a decorative footer section featuring a blue background with a repeating pattern of hands and DNA helixes.

EMBS INSAT STUDENT CHAPTER is the 3rd chapter of EMBS in Tunisia Section and has more than 100 members.

The executive board is composed of:

- Ghassen Chtioui: Chair
- Nada Baccar : Vice Chair
- Souha Kacem : Treasurer
- Malek Bouallegue : General Secretary
- Ons Memmi : Human Resources Manager
- Ghofrane Ben Aissa : Media Manager

The Chapter events will take place, expectantly, during the second semester.



IAS INSAT STUDENT CHAPTER

Being a hard-working student, having always the highest grades and then getting your diploma with an excellent average makes of you a great student but not necessarily a great engineer ... You may possess knowledge, but you are way behind when it comes to dealing with real industry equipment. 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.

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

The screenshot shows the homepage of the IEEE Industry Applications Society. At the top, there's a navigation bar with links to IEEE.org, IEEE Xplore Digital Library, IEEE Standards, IEEE Spectrum, and More Sites. The main header features the 'IAS IEEE INDUSTRY APPLICATIONS SOCIETY' logo and the tagline 'Linking Research to Practice'. Below the header is a search bar with the placeholder 'Search IEEE Industry Applications Society' and a 'Search' button. To the right of the search bar are social media icons for Facebook, Twitter, and LinkedIn, along with a 'Resource Center' and 'Join IEEE IAS' button. At the bottom of the page is a footer menu with links to Home, About IAS, Chapters & Membership, Publications, Events & Conferences, Education, Awards, Standards, and Contact IAS.

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.

Counting 176 active members by the end of 2016, this chapter has been, since its creation, one of the most active chapters of the IEEE INSAT SB.

The most memorable achievement the IAS team is that Zoubeir Zarrouk, former IEEE IAS Chapter INSAT BS, received on October 2014 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.

This year slim bouakez and islem chrif will have the honor of participating in Portland Benefits OF being IAS member.

IAS INSAT Student branch's executive board composition is the following:

- Islem Cherif: Chair
- Skander Khelil: Vice chair
- Eya Bourguiba: Communication and sponsoring manager
- Ahmed Khabkhab: Logistics and finance manager
- Zeineb Bouzid: General Secretary
- Malek Ajam: IAS coordinator

The screenshot shows a Facebook page for the IEEE IAS Chapter - INSAT Student Branch. The page header includes the society's logo and the text 'IEEE IAS Chapter - INSAT Student Branch @IASINSAT'. Below the header, there are four photo thumbnails: a logo thumbnail, a group photo of five people in front of a blue circular backdrop, a photo of a presentation screen in a conference room, and a photo of three people standing together. The page menu includes 'Accueil', 'À propos', 'Photos', and 'Avis'. On the right side, there are buttons for 'J'aime', 'S'abonner', 'Partager', and 'Envoyer un message'. A review section at the bottom right shows a rating of 'Entreprise à Tunis 5.0 ★★★★☆'.



LabVIEW training session



In the framework of a collaboration between the IEEE INSAT SB's IAS chapter and the LabVIEW Student Ambassador (LSA) program of the National Instruments (NI), a series of LabVIEW training sessions was triggered with the aim of familiarizing the students from all over Tunisian institutes with this software.

The sessions began on the 5th of October 2016, they are being led by Mr.Hichem Bellali who was charged by the LSA to assure the course at INSAT.

The weekly-evolving sessions interested many students and gathered more than 35 participants desiring to develop their graphic programming skills.

In the end of the training, scheduled to be on February 2017, the candidates who are interested in going further with the LSA can pass an evaluation exam. A number of them will be selected to get the CLAD certificate with no charges, sponsored by the NI.



IAS INSAT STUDENT CHAPTER

With meetings and congresses all year round, connecting us with likeminded people from all over the world, IEEE has proven to be a gateway to a greater future for motivated men and women everywhere and the IAS annual meeting is yet another opportunity for young innovators to rise to their full potential and showcase their wit and creativity to the rest of the world.

This event was held October 2016 in Portland,Oregon,USA and it sure was a busy few days for the attendees as they assisted with workshops organized by CMD chapters where ,in fact, our very own Islem Cherif had the honor of representing the IAS Tunisian student chapter's activities.

The event lined up as well a technical tour of the Bonneville lock and dam at Multnomah Falls. Built and managed by the US army, the dam is used to generate electrical power and to control river navigation. The tour was as described Islem "so informative, not to mention the beauty of the Multnomah Falls".

For Islem this experience was also an eye opener to the vision of the IAS society and its goals as she had the opportunity to meet the IAS executive board and exchange ideas with other members and pioneers in the industry.

And I'm positive the event held a lot more than just professional value to Islem and the rest of the delegation of Tunisia as they performed a Tunisian "hadhra" during the CMD dinner in order to show their pride and love for their country as well as share a bit of our culture with the attendees for being an IEEE member is an experience that extends beyond the boundaries of countries it is a chance for youth everywhere to achieve their goals, expand their knowledge and simply thrive.



PES INSAT STUDENT CHAPTER

Power and energy 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

PES, a chapter, which allows, us, the engineers and the future engineers, to know all that is connected to electric energy, to be able to share and follow closely and exactly what surrounds this vast domain. New ideas, innovations, knowledge and much more will be at your disposal. In other words, PES members are the leaders of this sector. The benefits of being a pes member allow them to innovate and create what was before unimaginable and unattainable.

The history Of the IEEE Power & Energy Society goes back to one of the merged societies that formed the IEEE: the American Institute of Electrical Engineers (AIEE, founded 1884).

When the AIEE and the Institute of Radio Engineers (IRE, founded 1912) merged in 1963 to form the IEEE,

The IEEE chose the more decentralized organization structure of the IRE. Starting in 1970 this resulted in the first IEEE societies; the main part of IRE became the IEEE Computer Society and the main part of AIEE became the IEEE Power Engineering Society. On April 22, 2008 the IEEE Power Engineering Society changed its name into the IEEE Power & Energy Society

Benefits of being a PES member:

- Free membership
- Notification for upcoming conferences
- Conferences are also available in videos format should you not have the time nor the means to physically be there.
- Networking with other PES members, exchanging information and such.



PES INSAT STUDENT CHAPTER is the 3rd chapter of PES in Tunisia Section.

In 2016, it had about 78 members from IEEE INSAT SB.

The executive board members are:

- Mohamed Abidi: Chair
- Asma Gdoura : Vice-Chair
- Hela Beya Zouari : General secretary
- Khédhiri Khaoula : Treasurer

IEEE PES INSAT STUDENT BRANCH
IEEE Power & Energy Society Chapter - INSAT Student Branch
@PES.INSAT
Accueil

J'aime déjà Déjà abonné(e) Partager Envoyer un message

PES INSAT STUDENT CHAPTER EVENTS

November 23rd:

Our student branch chapter was invited by PES ENIT SBC for a visit to their Power Plant. It was a chance for the participants to discover a center of informing and trial of photovoltaic energy. They also exchanged ideas and perspectives with the ENIT student branch members for future collaborations.



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November 30th: IEEE'Energy:

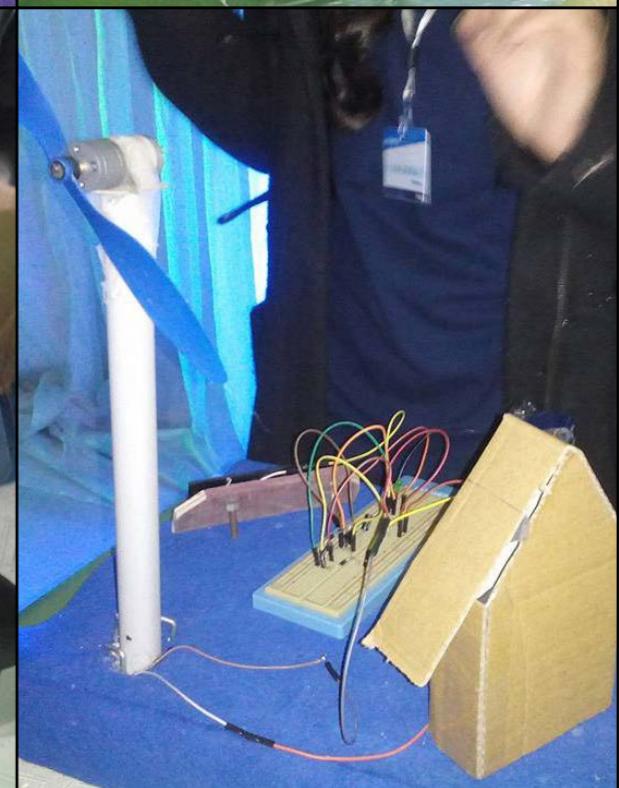
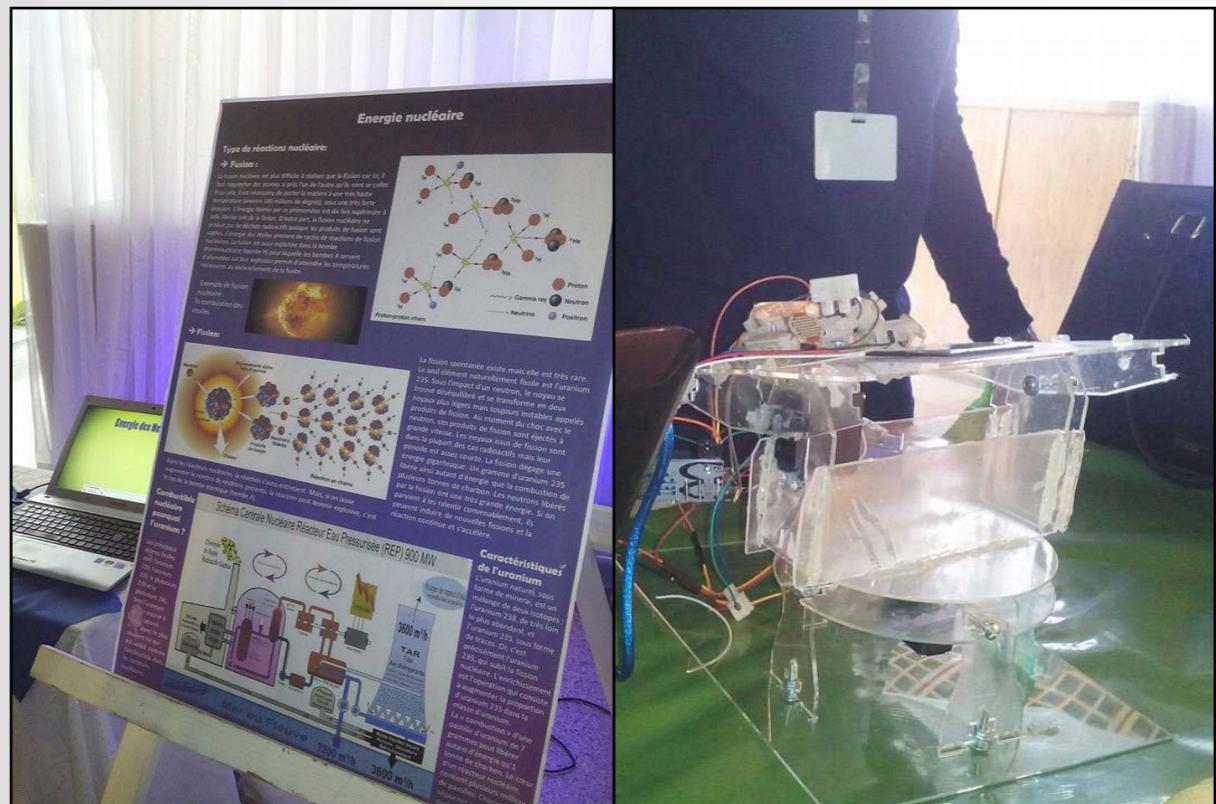
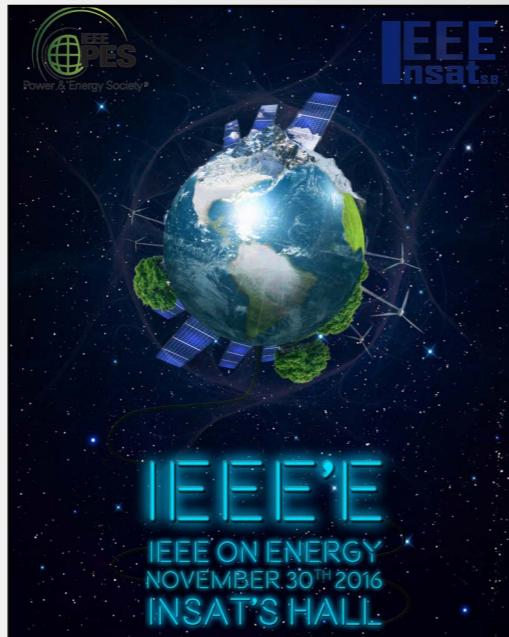
IEEE's on Energy, hosted by PES student chapter, was a masterpiece crafted by IEEE INSAT student branch gifted minds and skillful fingers, raising awareness about the ongoing energy crisis and introducing alternatives in a very upbeat and inviting environment . The institution hall was transformed into an art gallery by the theme "Energy". Various ambitious students presented their fruit of research and experiments. The workshops were well thought out and interesting yet simple, discussing the possibility of harvesting energy from plants, plastic, the noise, you name it!

Who knew you can light up a lamp by dancing or better yet, only by the heat of the palm of your hand!

That wasn't all as almost every project had a functioning prototype of the process they were discussing: solar energy powered charger, wind energy powered house, etc.

And it didn't stop there, as students got to enjoy watching a documentary about the impacts of climate changes and how far can we reverse the situation starring 'Leonardo Di Caprio'. With the presence of some of our expert-on-the-matter professors, the movie's topic was open for a debate. Both students and professors gave their point of views, arguments and solutions to limit the effect of the peril at hand.

This event promised a new outlook on energy and it sure delivered!



December 18th:

Participated in the Power and Energy Neighbors Congress which was in joint events with TSYP. It was a chance to foster the bonds between the neighbors IEEE PES chapter. This year Egypt was present and students from both countries discussed serious energy related problems and suggested some solutions in order to contribute in the development of Tunisia and Egypt. The participants also benefited of the technical and non-technical workshops that took place during the event.

December 17th:

In collaboration with Computer Society and RAS, PES participated in the Hour of code organized in the Youth club Rades where they presented some of the IEEE'E projects and made small challenges for the kids.



December 22nd:

Organized in collaboration with AutoClub and Club INSAT Maintenance an industrial visit to the 'Cimenterie de Bizerte' where they got the chance to learn more about the industrial life.

PES Student Congress

IEEE chapters offer a great deal of perks including first look at the newest discoveries and innovations in various fields as well as opportunities to share and discuss those breakthroughs with people from all around the world that are as passionate and interested in the scientific and technical fields as you are.

And one of those opportunities is the PES student congress that had its second installment last October in Kuala Lumpur, Malesia.



This event was the highlight of the year for many PES members including our own Dorsaf Ennacer that had only great things to say about her experience.

"I was very happy and appreciative to be a part of such great experience. I learned so much in those few days and have gained a new understanding of how an engineer could have such effective role in his society and could make a big difference in the world."

The PES student congress enabled the participants to expand their professional network and hold discussions on a variety of PES related topics like renewable energy, Smart grid, etc...

Moreover the congress gave the attendees the chance to have pleasant interactions and share meaningful, long lasting bonds with people from different backgrounds

"the participant team was a great group with such big enthusiasm and positive spirit that helped make our time together both productive and fun." described Dorsaf.

As with every IEEE gathering, the PES student congress was a great success that promised better events and more opportunities for PES students everywhere. And in Dorsaf's words we encourage you "to look for and grab these opportunities and be more involved in these activities in order to be the Engineer you are supposed to be."



RAS INSAT STUDENT CHAPTER

Last 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



A screenshot of the IEEE Robotics & Automation Society (RAS) website. The header features the RAS logo and the IEEE logo. Navigation links include About RAS, Membership, Conferences & Workshops, Publications, Technical Committees, Education, Outreach, Career & Video, Awards & Recognition, and Industry & Government. A search bar is present, along with social media icons for RASonIEEE.tv, Facebook, Twitter, YouTube, and LinkedIn. A prominent banner at the bottom left reads 'IROS 2016'. The 'LATEST NEWS' section displays articles: 'Call for SAC Co-Chair' dated 1/24/2017 and 'IEEE RAS ICRA 2017 Broadening Participation Travel Grants' dated 1/16/2017.

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

- Ben Boussaha Seif: Chair
- Khalfaoui Rkdha: vice chair
- Amani Guefreh: General Secretary
- Makni Omar: project manager
- Bouneb mohamed Amine: treasurer & fundraising manager



RAS INSAT STUDENT CHAPTER EVENTS

SCIENCE & TECHNOLOGY CAMP:

Youth are our hope yet our responsibility. Thus, investing in their education and the development of their abilities to observe, learn, create and innovate should definitely be our vocation and among our top priorities.

IEEE INSAT SB's RAS Chapter took this reasoning to reality and led off its activities for this semester with a very challenging and delicate mission.

In a collaboration with the youth for science foundation, the RAS Chapter organized the Science & technology camp which took place in the faculty of science of Al Monastir from the 1st to the 14th of august 2016.

While enjoying the weather and the beauty of Monastir, the participants, all students from middle and high schools, had a rather interesting program waiting for them. The camp prepared a consistent schedule of eight modules comprising: robotics, 3D printer, ADN, video games, Arduino programming, renewable energies, chemistry and geometrical optics.

To enliven the robotics training session, seven members of the RAS Chapter were there, ready to pass on their wisdom. The students were divided to eight groups, each one got a day and a half to learn about the basics of this discipline and get familiar with it. And in the end, each session wound up with a little project to enforce what the children got from their journey.

The camp was concluded with satisfied organizers and above all, satisfied participants. The cozy and friendly atmosphere that was created during the two weeks helped increase the curiosity of the children and made them thirstier to dig deeper and strengthen the skills they gained.



ARDUINO TRAINING SESSION:

Once again, the INSAT welcomed its students to enlarge their competencies and gave them the chance to gain some new capacities. This time, the IEEE INSAT SB's RAS Chapter organized, on the 28th of September 2016, a training session aiming to introduce those who assisted to the world of robotics.

The session, which was led by Mr. Khalfaoui Ridha, Mr. Makni Omar and Mr. Ben boussaha Saif, was based on initiating the students to the Arduino card which has a microcontroller that is relatively easy to program. Also, during this traineeship, the participants have discovered a panoply of sensors and actuators of common use that'll help with the achievement of many robotic projects.

The forty persons who showed up sure didn't waste their time, giving that what they learnt will open the gates for them to realize the projects they dreamt of, and will give them the chance to take part of national and international competitions in the robotics field.



IEEE INAT:

Robotics have affected all the aspects of our lives and proved that it wasn't restricted to one field or another. In this context, the RAS Chapter took the initiative to assure a traineeship in the International Institute of Agronomy of Tunisia (INAT).

Once again, the session was held by Mr. Ben boussaha Seif and Mr. Makni Omar, and gathered more than thirty students.

It commenced with initiating them to the basics of electronics and programming, two much needed skills to use the Arduino which was the center of this training session.



ULT AND ENICARTHAGE ROBOT COMPETITIONS:

The ULT School organized on 17th of December 2016 a robots-competition that brought together participants from all over the engineering institutes.

Some of the members of the IEEE INSAT SB's RAS Chapter took part of this contest and prepared some robots to compete.

They were divided into four teams, each one designed a line-follower robot who could also avoid obstacles.

And for the ENICAR competition, that was held on the same day, the RAS Chapter was also there, participating with a line-follower robot and with the exposition of its great project, the 'Solar Box' that was created for the IEEE'E day.

As mentioned before, the solar box, which is entirely functioning with photovoltaic panels, could notify you and warn you about the climate state by sending a message to your cellphone.

WIE INSAT AFFINITY GROUP

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.

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.

Executive Board

- Nesrine Fakhfakh: Chair
- Marwa Teyeb: Vice chair
- Naouel Cherif: General Secretary and Human Resources Manager
- Taoufik Zaghouani: Treasurer
- Sinda Jebali: Media manager
- Malek Dhemaied: Sponsoring Manager

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 are the benefits of being an IEEE WIE member?

IEEE women in engineering provides members with the opportunity to network at a local level through 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.



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IEEE Women in Engineering WIE

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IEEE INSAT AFFINITY GROUP

IEEE WIE INSAT Student Affinity Group

A group of people, including adults and children, are posing for a group photo in front of a building with a balcony. They are holding a purple banner that reads "YES WIE CAN!" with the IEEE and WIE logos. The banner has a small illustration of a person on it.

STAR PROGRAM

In November 20th 2016 members of WIE chapter from IEEE INSAT student branch visited: the integrated center for youth and children in Hammam-Lif to introduce children to engineering and encourage them to become the best citizens they can be.

The opening speech was insured by Chahrazed who was very sweet with the kids. She introduced the team then asked the youngsters to introduce themselves as an ice-breaker. Then Skander took over and made an amazing speech that made everyone in the room dreamy and hopeful.

Afterwards, while a group of kids were offered a scratch workshop where they enjoyed learning how to make their own videogame the rest were left to discover various workshops for chemistry, biology, etc. Where they were amazed by chemical reactions, learned how to make an electric current, got to know new calculation skills and a lot more.

Then came lunch time where both IEEE team and the kids sat together alongside our members to eat a healthy and delicious meal.

In the afternoon, everyone cry-laughed at a play presented by Theatro INSAT then the children were quizzed about what they had discovered during the morning workshops in order to win a precious prize.

Even though they were young, most of them did a great job at the quiz. The winner was selected but the STAR team had a surprise for everyone. All the participants went home with gifts and books. The kids were very pleased and hugged everyone goodbye. STAR team left the place wishing they could spend more time with the angels of the integrated center for youth and children in Hammam-Lif.



IEEE DAY

IEEE isn't just a technical institute, but also a humanitarian one. That's why to celebrate its day, IEEE Day, 30 IEEE INSAT student branch members paid a visit to Charles Nicole hospital-pediatrics department, on October 2nd, and brought joy and excitement to the little kids who were granted a heap of fun through various workshops: a dance workshop, a singing workshop, a DIY workshop and a drawing workshop.

Moreover, a technical activity was held on October 5th. The main purpose of this part was to introduce IEEE as well as to how it was integrated in our institute. 13 stands were set to present IEEE, IEEE TUNISIA SECTION, and IEEE INSAT SB, chapters, affinity groups and congress participations (Nationally & Internationally). On the second half of the journey a

Testimony of members were presented under the theme 27\$ it's worth it. Congresses participants as well as previous chairs and vice chairs shared their experiences.



IEEE INSAT SB ACHIEVEMENTS AROUND THE WORLD

Middle East Student Branch Congress 2015:

MESBC is a biennial conference that occurs every two years in one of the participating countries. It's a gathering of student branches in the MENA region.

In 2015, the event was concluded by IEEE An-Najah branch in Jordan, Amman from the 4th to the 7th of August where seminars and workshops on technology, industry and engineering were held.

Tunisia was one of the participants and INSAT student branch was represented by 3 members: Mehdi Bouguerra, Khalil Belhaj Hamida and Skander Mansouri.

At first, the goal of our student branch members was to gain more knowledge about international events but when they found out about the Delegation of Aspiration competition they couldn't help but participate especially knowing that the winner has the chance to organize the next MESBC edition.

To be one of the finalists, the participants had to pass 2 challenges. The first was to create a video in which they present their vision on the next edition. Tunisia section member's video was a shooting of an interview with the president of MESBC 2017 where they showed a confident president who guarantees an unforgettable edition and added some beautiful touristic places in Tunisia.

The second part was a 24 hours challenge where they had to present an EPICS project (Engineering Projects in Community Services) "I can't forget that challenge", Skander says, "We gathered all Tunisia participants in the room and we called our friends in Tunisia and we focused on finding this out-of-the-box idea that will make us champions".

After a busy night of hard work the team came up with the idea of creating a smart belt that is worn by autism and Alzheimer patients to track their position especially in dangerous areas. Luckily, the presentation was ready just 15 minutes before the challenge was over.

The team did a enough good work on the challenges to grant them a spot among the finalists. The final was a debate between student branches and the questions were related to the organization of the congress. After a vote, INSAT Student Branch was declared winner in spite of it being its very first participation in an international congress. Skander described his feelings about the victory: "I felt like an Olympic standing on the podium with the golden medal and was so proud to have the Tunisian flag raising above".

Besides winning the competition and attending the conferences that took place, the Tunisian participants got the chance to discover the beautiful landscapes of the city and got to meet the lovely people of Jordan and Palestine who were very supportive and welcoming.



SKANDER MANSOURI EXPERIENCE

One of the benefits of being an IEEE member is that it gives you the opportunity to achieve your goals by providing access to an international platform of information and giving you the chance to take your projects to an international level.

It also enables you to attend forums and meet-ups abroad where you can acquire new skills and make connections with people from all over the world.

Skander Mansouri is one of IEEE members who represented our student branch during various events and meetings around the world from Jordan Amman to Washington D.C. USA.

In 2015 he was invited to work on a project within IEEE SIGHT Tunisia section along with student branch leaders from our country. The project was named TAWASOL which means 'connection' in Arabic. It aims, as he describes, 'to connect all primary schools in Tunisia with internet connectivity and a good quality STEM education.' The party was allied with IEEE members and professionals from IEEE USA and were determined to take their initiative to a worldwide level.

Their hard work finally paid off when Skander was invited to represent and expound TAWASOL in The Global Connect Initiative Meeting organized jointly by IEEE, World Bank, Internet society and people-Centered internet which took place during the 5th and 6th of October in Washington D.C., USA.

Skander described the meeting as mind-blowing. It was his first experience attending a non-student based meet-up after attending two international meetings in Jordan and Germany. The event left a special print in our student branch fellow as he not only was representing his project but, also and more importantly for him, Tunisia. He felt important and appreciated during the meeting in spite of the fact that he was the least experienced standing along professionals from international Tech companies such as: Facebook, Mozilla, Microsoft, Google, the white house and investors from World bank who were all interested in what he was presenting and were ready to invest in it.

The journey was far from being over, IEEE invited Skander to represent them during The Internet Governance Forum in Guadalajara, Mexico. When asked about it he said: 'what made me excited was from having an IEEE booth in our university, now I'll be representing IEEE in a worldwide event and I'll be part of their booth.'

Neither he nor his team members could've seen themselves attending a forum that big, but their determination and belief in themselves made it possible. The project captivated the attention of many attendees which made the team a bit concerned about what was expected from them but the support of national and international friends stiffened their resolve and boosted their confidence.

This experience was beneficial on many levels as the team made strong connections and international partnerships.

Working on TAWASOL did not stop, in fact, the CEO of international connector, an international Youth Empowerment company, met the team here in Tunisia for her first ever visit to the country. She helped them with setting the roadmap for the project.

Also, the Ministry of education and the Ministry of women and children supports the project along with international partners in order to provide internet access to primary schools within all regions in Tunisia. Moreover, they are making sure that the children are using Internet properly by providing interactive workshops.

At last, Skander has a piece of advice for you: don't limit yourself with only working on activities within your university because IEEE is the network of networks. Aim to make connections with people in Tunisia and outside its borders. Also, and I quote him, 'no matter what your experience is, no matter who you are talking to, you must always be confident of what you are capable of.'



SYP 2016

The student and young professionals congress is one of the main events in the IEEE community in which members from Africa, Europe and the Middle East gather in order to exchange knowledge, ideas and experiences .

As usual, the INSAT SB was present, as 11 of our members represented our student branch in the 2016 SYP held in Regensburg, Germany

"SYP experience was just different, I found myself surrounded by more than 400 IEEEIAN from almost 54 different countries, various backgrounds, beliefs, religions, etc. Yet we shared the same interests, we all belong to IEEE family" Says Sarra Ben Rabii about the experience.

The congress included many workshops, dedicated to developing soft and technical skills, which were "a huge success" as described Sarra, as well as several lectures about IEEE and other topics within the technical field

The SYP also offered the opportunity to meet new people, learn more about different cultures and showcase yours in a very supportive and welcoming atmosphere

And I believe that Ichraq Mars put it best when she said:

"This experience was a big eye-opener. An eye-opener to different cultures, places and people... SYP made me confident not just in speaking my first, second & third additional languages but in who I am, what I believe in, my studies, my culture and also my country."

And of course we cannot forget to mention that our members won the 1st best designed poster award. "We just couldn't go home empty handed" Said Sarra.

Finally, it seems that the only lingering thoughts in the minds of the attendees were happy souvenirs and a new found belief that IEEE is more than a university club it's "the biggest family in the world" Said Ichraq Mars.



FISHED OPPORTUNITIES

1st International Workshop on Arabic Script Analysis and Recognition ASAR 2017

April 3-5, 2017, in Loria, Nancy-France

It's an International Workshop that will be hosted by LORIA laboratory (University Lorraine, France), in collaboration with the REGIM-Lab. (University of Sfax, Tunisia), and will be held in Nancy (France) from April 3-5, 2017.

The first ASAR 2017 workshop provides an excellent opportunity for researchers and practitioners at all levels of experience to meet colleagues and to share new ideas and knowledge about Arabic script document analysis and recognition methods. The workshop enjoys strong participation from researchers in both industry and academia.

Keynote speakers will be Mr. Christopher Kermorvant (Founder of Teklia, France) and Mr. Gernot A.Fink (TU Dortmund University, Germany, Head of Pattern Recognition in Embedded Systems Group).

Registration:

Expected Registration fees (the final fee will be announced with the acceptance notification).

The maximum fees are:

IAPR/IEEE Member 350,00 €

Non IAPR/IEEE Member 400,00 €

Student IAPR/IEEE Member 250,00 €

Student Non IAPR/IEEE Member 300,00 €

Non authors professional members 300,00 €

Non authors students 200,00 €

E-mail: asar@ieee.tn



The 42nd IEEE International Conference on Acoustics, Speech and Signal Processing ICASSP2017

March 5-9, 2017, New Orleans, USA

As music and rhythm are the heartbeats of life, signal and information processing is the heartbeat of technology development for our daily life. Having both of them capture the hearts and souls of all the attendees is the goal of the 42th International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2017) which will be held in Hilton Conference Centre, at the Jazz music capital (New Orleans, USA) on March 5-9, 2017. ICASSP is the world's largest and most comprehensive technical conference focused on signal processing and its applications. The conference not only introduces new developments in the field but also provides an engaging forum to exchange ideas, and does so both for researchers and developers. The theme of the ICASSP 2017 is "The Internet of Signals" which is the real technology and world behind the Internet of Things. The conference will feature world-class international speakers, tutorials, exhibits, lectures and poster sessions from around the world.

Subjects:

- Audio and acoustic signal processing
- Sensor array & multichannel signal processing
- Bio-imaging and biomedical signal processing
- Signal processing education
- Design & implementation of signal processing systems
- Signal processing for communication & networking
- Image, video & multidimensional signal processing
- Signal processing theory & methods
- Industry technology tracks
- Signal processing for Big Data
- Information forensics and security
- The Internet of Things & RFID
- Machine learning for signal processing
- Speech processing
- Multimedia signal processing
- Spoken language processing
- Remote Sensing and signal processing
- Signal Processing for Brain Machine Interface
- Signal Processing for Smart Systems
- Signal Processing for Cyber Security
- Computational Imaging

Special Sessions

Special session proposals should be submitted by July 11th, 2016. Proposals for special sessions must include a topical title, rationale, session outline, and contact information for the session chair, a list of authors, and a tentative title and abstract. Additional information can be found at the ICASSP 2017 website (www.ieee-icassp2017.org)

Tutorials

Brief proposals for tutorials should be submitted by September 15th, 2016. Proposal for tutorials must include a title, an outline of the tutorial and its motivation, a two-page CV of the presenter(s), and a short description of the material to be covered. Tutorials will be held on March 5th, 2017.

Demos

ICASSP 2017 offers a perfect stage to showcase innovative ideas in all technical areas of interest at ICASSP. All demo sessions will be highly interactive and visible. Please refer to the ICASSP 2017 website for additional information regarding demo submission.

For more information:

E-mail: registration@ieee-icassp2017.org
Conference Management Services,
Inc: +1-979-846-6800



UPCOMING EVENTS

• IAS :

In 2017 IAS INSAT student branch will continue to amaze by organizing industrial visits to various sectors in order to introduce students to the practical aspect of engineering for it's the chapter primary goal.

It will continue the LabVIEW sessions adding quality and lean manufacturing training sessions.

Furthermore, 2 workshops will occur one on electricity and safety, the 2nd is on NI (National Instruments) devises and its application in industry this February with Mr.Mahdi Bouzid.

• EMBS:

Starting on February first, an industrial visit to INRAP will be organized.

By February 12th, Charity Day will be coming back for its second edition.

On February 22nd, finally the inauguration of IEEE EMBS INSAT Student Branch chapter will occur and at the same time, a nanotechnology themed event will be hosted.

During spring break, an ISO training session will be at the members' disposal to take advantage of.

Reaching April 5th, a lecture and workshop on medical biology will be held.

Last but not least, on April 26th, a second industrial visit will occur.

• RAS:

Beginning of February 2017:
solidworks CSWA training session
Beginning of Mars 2017: solidworks
CSWP training session

February 12th 2017: partaking in a
robotic competition (IEC)

April 16th 2017: Competing in
Innorobots

April 23rd 2017: Competing in
Tunirobots 2017

• PES:

Soft skills training sessions.
Technical training sessions.
Industrial visits to energy related
industries.

Participation in 24h challenge
organized by IEEE INSAT SB (Challenge
to create a project conform to IEEE
SIGHT, EPICS or IEEE Foundation
requirements.)

Participation in TUNIROBOTS17 Expo,
Competing IEC Competition 1st
edition

Participation in Aeroday Expo.
Project implementation in our
University (still under planning)

• CS:

Technical training sessions by
professionals

Participations and preparation for
different competitions

Another hour of code session
and more opportunities to help the
community at large through IT.

OLD IEEE INSAT SB MEMBERS

ABBASSI FEDI	BOUAKER SLIM	GUEFRECH AMANI	
ABBES ARIJ	BOUALLEGUE MALEK	HABECHA MOHAMED	
ABDELKADER RAYEN	BOUALLEGUI OUMAIMA	HADHIRI ANESS	
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BANGAJI CHAIMA	CHEBBI MARIEM	KASSEH SALWA	REZGU YOSRA
BAOUEB NIZAR	CHELLY EMNA	KASTELLI SLEH	RIABI MARIEM
BAROUNI KALTHOUM	CHEMLI KAIS 80	KECHRID INES	RIABI FATMA
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DHIA RZIG: JOURNALIST

MALEK AJAM: JOURNALIST

SALMA TROJETTE: JOURNALIST

FARAH CHIHI: JOURNALIST

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RANIA ABDELGHANI: JOURNALIST

IMEN BEN JMEA: JOURNALIST

SALLAMI NOUR: GRAPHIC DESIGNER

EMNA CHELLY: DATA BASE PROVIDER

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TAKING THE TIME OFF THEIR SCHEDULE TO GIVE A LITTLE INSIGHT ABOUT THEIR IEEE JOURNEYS
OUTSIDE OF TUNISIAN BOARDERS.

