Inaugural Function Report of IEEE Student Branch activities for the year 2023

The IEEE Student Branch activities 2023 of NIT Tiruchirappalli was inaugurated on 19th June 2023. The Chief Guest for the inaugural event was Dr. Atul Negi, Professor and Dean at University of Hyderabad and Dr. G. Aghila Director, NITT presided over the meeting.

The event started off with an invocation to the almighty and Mr. Ayush Kumar Laad, Vice Chairperson, IEEE SB 2022 welcomed the audience. Ms. Vidya P Janaki, Chairman, IEEE SB 2022 gave a brief overview about the activities conducted throughout the year 2022. The new allocated Office Bearers of IEEE SB 2023 was introduced by Dr. M. Venkata Kirthiga, IEEE SB Counsellor 2023.

**Dr. Atul Negi** officiated the inaugural address with his inspirational words. Highlights of his speech are:

“The speech emphasized the passion, dedication, and efforts of the students in making this vision a reality. The IEEE Student Branch represents their commitment to advancing technology, fostering innovation, and shaping the future. The speech highlighted that as members of IEEE, the students are part of a global community focused on advancing technology for the benefit of humanity. The Student Branch provides a platform for students to collaborate, explore their interests, expand knowledge, and develop leadership skills. It aims to create a positive impact on society by engaging in activities, workshops, and projects that promote learning, innovation, and social responsibility. The Student Branch will serve as a hub for creativity and ingenuity, welcoming diversity and encouraging collaboration among students from various disciplines. The focus will be on exploring emerging technologies, conducting research, and fostering interdisciplinary cooperation. In addition, community outreach will play a significant role, with initiatives aimed at utilizing technology to address societal challenges and uplift the underprivileged. In conclusion, the speech highlights the commitment to embracing challenges, pursuing knowledge, and making a positive impact on society. The students are determined to shape the future and leave a lasting legacy for future generations”.

Overall, the inaugural speech of the IEEE Student Branch showcased the enthusiasm, dedication, and aspirations of the students, setting the stage for a vibrant and impactful journey ahead.

Later, the action plan of IEEE SB 2023 was presented by Ms. Biby Joseph, Chairperson, IEEE SB 2023. Finally, Mr. Setti Suresh, Secretary, IEEE SB 2023 governed the Vote of Thanks.
IEEE Student Branch
National Institute of Technology
Tiruchirappalli

You are cordially invited for the
Inauguration of the IEEE Student Branch activities for the year 2023
at 3.00 P.M. on 19th June 2023
at EEE Seminar Hall

Dr. Atul Negi
Professor at University of Hyderabad,
Chairman - IEEE Hyderabad Section,

has consented to be the Chief Guest.

Dr. G. Aghila
Director,
National Institute of Technology, Tiruchirappalli
will preside over the function.

Ms. Bibly Joseph
Chairperson, IEEE SB NITT

Dr. M. Venkata Kirthiga
IEEE SB Counsellor
The IEEE Student Branch of NIT Tiruchirappalli organized a hybrid mode technical talk on “Introduction to the IoT Protocols” on 19th June 2023 via WebEx meetings. The event was set up on the inaugural day of the IEEE Student Branch 2023, NIT Tiruchirappalli.

The speaker for the technical talk was Dr. Atul Negi, Professor and Dean at University of Hyderabad.

“The speech on the introduction to IoT protocols provided valuable insights into the crucial role that protocols play in the realm of the Internet of Things (IoT). The speech highlighted the significance of IoT protocols in facilitating communication and interoperability between devices in an IoT ecosystem. Speaker emphasized MQTT (Message Queuing Telemetry Transport) as a widely used IoT protocol due to its lightweight nature and efficient messaging capabilities. MQTT's publish-subscribe model enables devices to publish messages to a broker, which are then received by interested subscribers. The protocol's simplicity, low overhead, and support for reliable messaging make it a popular choice in IoT deployments. The CoAP (Constrained Application Protocol) was discussed as a protocol specifically designed for resource-constrained devices and networks. Built on REST principles and operating over UDP (User Datagram Protocol), CoAP offers a lightweight and scalable solution for IoT devices with limited processing power and memory. HTTP (Hypertext Transfer Protocol), known for its universal compatibility and familiarity in web applications, was highlighted as a relevant protocol in IoT. The report noted that using HTTP enables devices to communicate using standard web protocols, opening opportunities for seamless integration with existing web technologies.

Finally, the ongoing development and standardization of new protocols such as Bluetooth Low Energy (BLE), Thread, and NB-IoT (Narrowband IoT), highlighting their potential for specific IoT applications are discussed.”

After the presentation, an interactive session enabled the participants to clear their doubts regarding the talk. The technical talk was attended by UG & PG students, PhD scholars and faculties from all over the country.
IEEE student branch Invited talk on "Introduction to the IoT Protocols"

Date: 19-06-2023, 3:00 PM

EEE Seminar Hall, NITT
Spot registration at the venue

Dr. Atul Negi

Chief Guest
Chair, IEEE Hyderabad Section
Professor and Dean,
School of Computer & Information Sciences,
University of Hyderabad

Biby Joseph
IEEE SB Chairperson

Dr. M. Venkata Kirthiga
IEEE SB Counsellor

Setti Suresh
IEEE SB Secretary

Contact: +91 7382409791

A few screenshots from the workshop:
Workshop on soothing the senses: Pre-Yoga Day Gathering on 20.06.2023

The IEEE Student Branch of NIT Tiruchirappalli conducted the Pre-yoga day workshop on 20.06.2023 at EEE Auditorium. The speaker for the workshop was Dr. G Sangeetha, Professor, Dept. of Architecture at National Institute of Technology Tiruchirappalli.

A brief summary of the workshop:

The speech on soothing the senses focused on promoting relaxation and well-being for the body, mind, and soul. It emphasized the importance of intentionally engaging the senses to create a harmonious balance and foster inner peace. Soothing the body involves activities aimed at physical relaxation and rejuvenation. Practices such as gentle massage, warm baths or showers, yoga, and engaging in activities that promote physical well-being were highlighted. These practices help release muscle tension, improve circulation, and induce a state of physical relaxation. Soothing the mind revolves around calming thoughts, reducing mental chatter, and promoting mental clarity and focus. Mindfulness meditation, deep breathing exercises, and engaging in activities that promote mental relaxation, such as reading, listening to calming music, or practicing mindfulness, were discussed. These practices encourage present-moment awareness, alleviate stress, anxiety, and mental fatigue. Soothing the soul focuses on nourishing the inner self and connecting with a deeper sense of meaning and purpose. The speech mentioned activities that promote spiritual well-being, such as prayer or meditation, spending time in nature, practicing gratitude and self-reflection, and engaging in activities aligned with personal values and beliefs. These practices foster inner harmony, contentment, and a sense of connection to something greater.

The speaker emphasized the importance of a holistic approach to well-being by addressing the body, mind, and soul. By engaging in practices that nurture all aspects of one's being, individuals can experience profound relaxation, inner peace, and overall well-being. Prioritizing self-care and incorporating soothing practices into daily life were highlighted as ways to achieve a balanced, fulfilled, and peaceful existence.

In conclusion, the speaker carried out simple physical exercises to relax the body and mind. By intentionally engaging the senses and nurturing all aspects of one's being, individuals can cultivate a state of inner harmony, find solace amidst life's challenges, and experience enhanced well-being. Overall, the speech provided valuable insights into the practices and techniques that can be employed to soothe the senses and promote well-being for the body, mind, and soul.
A few screenshots from the event:
IEEE Student Branch Open Sketch contest

Theme - sketch should highlight women in engineering. We received a total of 8 sketch arts from the students.

Eligibility:
The contest is open for all college students (boys and girls) pursuing undergraduate (UG), postgraduate (PG), and doctoral (PhD) studies.
Link for submission: https://forms.gle/R91KKflcsS1gTBUCA

Ms. Biby Joseph                               Dr. M Venkata Kirthiga
IEEE SB Chairperson                          IEEE SB Counsellor

Rewards & Recognition for winner:
1. Cash prize of 2000 INR
2. The designer will receive acknowledgment and credit for their work on the chapter website, social media platforms, and any promotional materials featuring the event.
3. Winner E-Certificate

Note: Participation certificates will be given to all registered candidates

Registration fee 100/- Rs

UPID: mgreddy97@okicici
Contact - +91 9581313454

Deadline 7th July 2023
11:59 pm
Among the above received sketch arts (different arts), sketch 7 was voted by the IEEE SB committee members, where the art is simple and covering many aspects of women in engineering.

Winner name – Miss. E Shivani, Student from SRM Institute of Science and Technology.
IEEE Student Branch Logo design contest

To blend with the institute fame and locality with IEEE logo, a logo contest was launched representing the IEEE Student branch at NIT Trichy. Result was announced on 15th July, adopting the new logo for IEEE SB, NIT Trichy. The released poster and received participation were given below:

Logo requirements:

a. Include the chapter logo: The chapter logo should be incorporated into the design as a recognizable element. Make sure it is clearly visible and blends harmoniously with the overall composition.

b. Tiruchirappalli city representation: Include a visual element that represents Tiruchirappalli city. This can be an iconic landmark, a symbolic representation, or any other visual element that signifies the city. Be creative while ensuring the element is easily recognizable.

c. Space for IEEE SB number: Allocate an appropriate space within the logo design to prominently display the IEEE SB number. Ensure the text is legible and easily readable.

Rewards for winner:
1. Cash prize of 2000 INR
2. IEEE Appreciation Kit

Recognition:
1. The winning logo design will be officially recognized and adopted as the IEEE SB NITT logo.
2. The designer will receive acknowledgment and credit for their work on the website, social media platforms, and any promotional materials featuring the logo.

Submit your entries at: https://forms.gle/nCTm7h1MosqwU3qF9

Eligibility:

The contest is open to students currently enrolled at the National Institute of Technology (NIT), Trichy. This includes undergraduate (UG), postgraduate (PG), and doctoral (PhD) students from any department or program within NIT Trichy.

Contact:
Mr. Manoranjan (Web Master) – (9490087996)
Mr. Suthi Suresh (Secretary) – (7383409791)
Ms. Bily Joseph (Chairperson) – (7034186401)
Following are the received logos from the students of NIT Trichy.

Following is the selected logo:

Student Name – **Mr. Shubham Kumar**, Production Engineering, B.Tech, NIT Trichy
IEEE Student Branch Report of expert talk delivered by Dr. Ajeet Kumar

The IEEE Student Branch of NIT Tiruchirappalli organized an online mode expert talk on “Hybrid-Polarimetry SAR and its usefulness in earth and lunar surface exploration” on 22nd July 2023 via WebEx meetings.

The speaker for the technical talk was Dr. Ajeet Kumar, Researcher (Level IV), National Laboratory of RADAR and Surveillance Systems (RASS), Italy.

The speaker delivered an insightful talk on three applications, highlighting the importance of hybrid polarimetry synthetic aperture radar (SAR) for imaging the locality and identifying the manmade oil spills in ocean. The importance of lunar surface exploration was presented in application-2 stating the advantages for exploring the planet Moon. In the application-3, he enlightened the usage of hybrid-polarimetry SAR in ground applications. Finally, he provided open source links for accessing free datasets and also discussed the approach for getting into PhD and PDF at reputed research institutions.

Screenshots of expert talk photos are shown below:
EXPERT TALK ON
HYBRID-POLARIMETRY SAR AND ITS USEFULNESS IN EARTH AND LUNAR SURFACE EXPLORATION

SPEAKER
Dr. Ajeet Kumar
Researcher (Level IV)
CNIT - National Laboratory of RADAR and Surveillance Systems (RASS), ITALY

DR. M. VENKATA KIRTHIGA
IEEE SB Counsellor

BIBY JOSEPH
IEEE SB Chairperson

SETTI SURESH
IEEE SB Secretary

JULY 22nd 2023
2:30 pm

Contact: +91 73824 09791

SCAN TO JOIN