



**National Institute of Technology,
Tiruchirappalli – 620 015**



19.06.2023

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. Biby Joseph
Chairperson, IEEE SB NITT

Dr. M. Venkata Kirthiga
IEEE SB Counsellor





**National Institute of Technology,
Tiruchirappalli – 620 015**



19.06.2023

**IEEE Student Branch Report of technical talk held on the inauguration day
19.06.2023**

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.



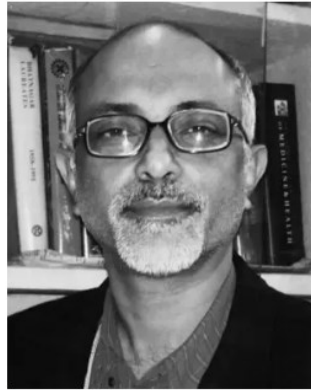
National Institute of Technology,
Tiruchirappalli



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

No Registration Fee

Dr. Atul Negi



Earn a Certificate and
add it to your CV

Chief Guest

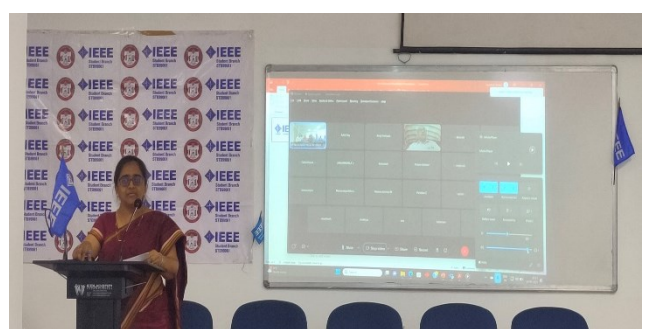
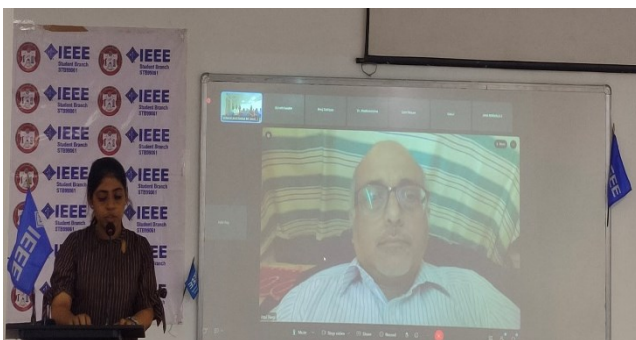
Chair, IEEE Hyderabad Section
Professor and Dean,
School of Computer & Information Sciences,
University of Hyderabad

Biby Joseph
IEEE SB Chairperson

Dr. M. Venkata Kirthiga
IEEE SB Counsellor

Contact: +91 7382409791
Setti Suresh
IEEE SB Secretary

A few screenshots from the workshop:





**National Institute of Technology,
Tiruchirappalli – 620 015**



20.06.2023

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.

Soothing the Senses: Pre-Yoga Day Gathering



Yoga is the –
journey of the self,
through the self,
to the self.



Chief guest:
Prof. G. Sangeetha,
Dept. of Architecture,
NIT Tiruchirappalli.



[Register Now](https://forms.gle/FR4fRJ3GMDWnhLYZA)

<https://forms.gle/FR4fRJ3GMDWnhLYZA>



20 June, 2023
04:00 PM



EEE Seminar Hall,
NIT Trichy



Contact:
Setti Suresh - 7382409791
IEEE-SB Secretary

Biby Joseph
IEEE-SB Chairperson

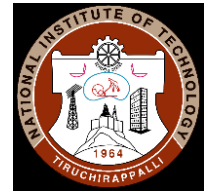
Dr. M. Venkata Kirthiga
IEEE-SB Counsellor

A few screenshots from the event:





**National Institute of Technology,
Tiruchirappalli – 620 015**



25.06.2023

IEEE Student Branch Open Sketch contest

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



National Institute of Technology,
Tiruchirappalli



SKETCH CONTEST

Theme - “Women in Engineering”

**Sketch can be digital or hand or pencil or any
kind of art**

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/R91KKfJcsSJgTBUCA>

Ms. Biby Joseph
IEEE SB Chairperson

Dr. M Venkata Kirthiga
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**



UPI ID: mgreddy97@okicici
Contact - +91 9581313454

**Deadline
7th July
2023
11:59 pm**

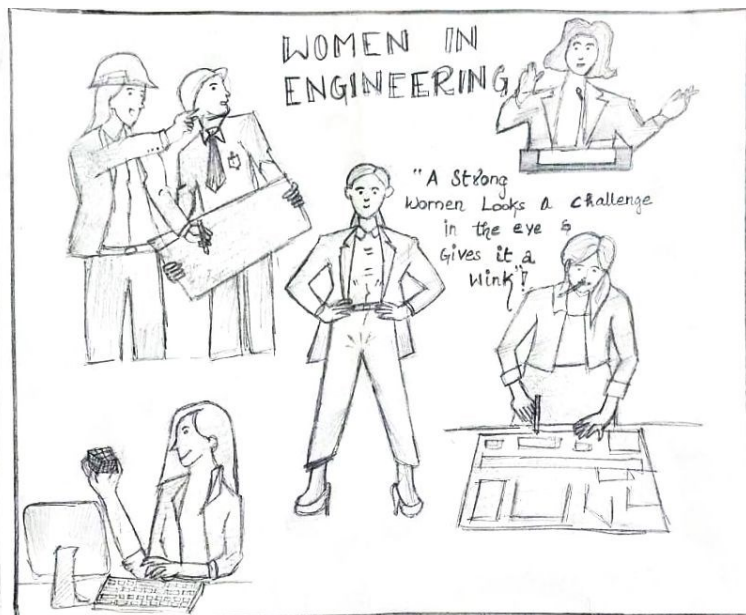


National Institute of Technology, Tiruchirappalli – 620 015



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.





**National Institute of Technology,
Tiruchirappalli – 620 015**



15-07-2023

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:

Deadline
12 June
2023

LOGO DESIGN CONTEST

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>

IEEE
STB99061 Student Branch - NITT

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.

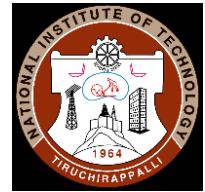
Eligibility:

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.

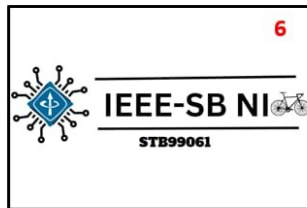
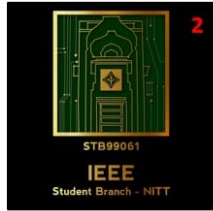
Contact:
Mr. Manoranjan (Web Master) – (9490087996)
Mr. Setti Suresh (Secretary) - (7382409791)
Ms. Biby Joseph (Chairperson) – (7034186401)



**National Institute of Technology,
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Following are the received logos from the students of NIT Trichy.



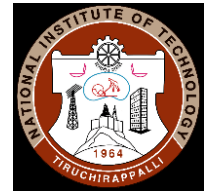
Following is the selected logo:

Student Name – **Mr. Shubham Kumar**, Production Engineering, B.Tech, NIT Trichy





National Institute of Technology, Tiruchirappalli – 620 015



22.07.2023

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:

Synthetic Aperture Radar (SAR): Various Configurations

Compact-pol (CP) modes

- π/4 CP mode**
 - Transmission: (H + V) wave oriented at 45°
 - Reception: H and V two orthogonal linear wave
 - Introduced by Souyris et al. in 2005 [6].
- Dual-circular CP mode**
 - Transmission: Circular (RHCP or LHCP)
 - Reception: RHCP and LHCP two orthogonal circular wave
 - Introduced by Stacy and Preiss et al. in 2006 [7].
- Hybrid-pol CP mode**
 - Transmission: Circular (RHCP or LHCP)
 - Reception: H and V two orthogonal linear wave
 - Introduced by Raney et al. in 2007 [1].

Completely polarized wave: Poincare Sphere Representation

• **Completely Polarized condition (m = 1):**
 Reserves a position on the surface of Poincaré Sphere

$$G = \begin{bmatrix} G_0 \\ G_1 \\ G_2 \\ G_3 \end{bmatrix} = \begin{bmatrix} A^2 \\ A^2 \cos 2\phi \cos 2\chi \\ A^2 \sin 2\phi \cos 2\chi \\ A^2 \sin 2\chi \end{bmatrix} \Rightarrow G_1^2 + G_2^2 + G_3^2 = G_0^2$$

This satisfies the equation of Sphere
 (will reserve a point on the surface of the Sphere)

Polarization Ellipse can also be used to represent polarized condition (m = 1), but not adequate to represent partially polarized (0 < m < 1) and depolarized condition (m = 0)

• **Completely Depolarized condition (m = 0):**
 $G = \begin{bmatrix} g_0 \\ g_1 \\ g_2 \\ g_3 \end{bmatrix} = \begin{bmatrix} A^2 \\ 0 \\ 0 \\ 0 \end{bmatrix}$
 The value of all three axes ($g_1, g_2,$ and g_3) are zero (indicates center of the sphere)

Diagrams show the Poincaré Sphere with axes labeled Equator, Linear, LHCP, and RHCP.



National Institute of Technology,
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National Institute of Technology,
Tiruchirappalli



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

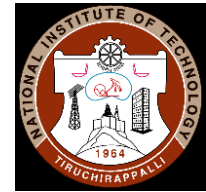


Contact: +91 73824 09791

SCAN TO JOIN



National Institute of Technology, Tiruchirappalli – 620 015



08.08.2023

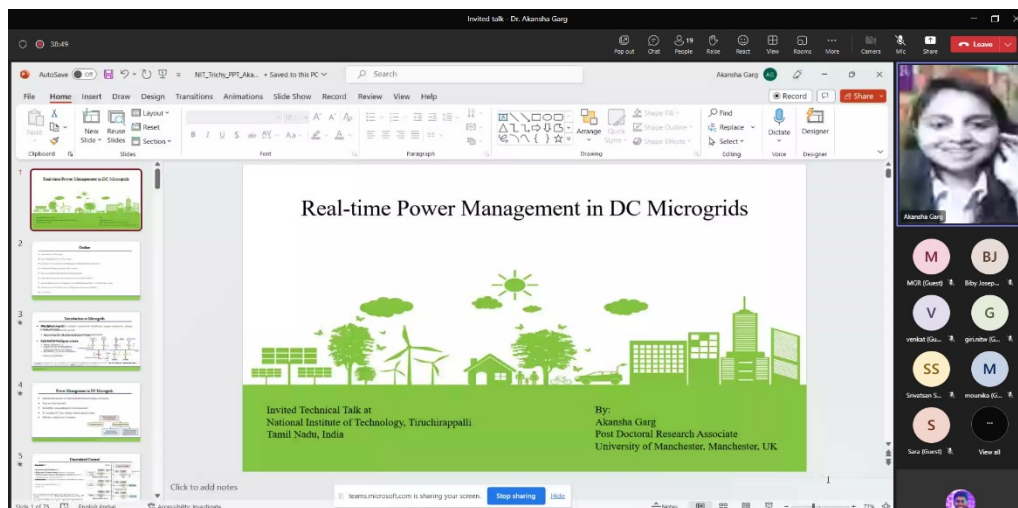
IEEE Student Branch Report of invited talk delivered by Dr. Akansha Garg

The IEEE Student Branch of NIT Tiruchirappalli organized an online mode invited talk on “Real-Time Power Management in Microgrids” on 8th August 2023 via MS Teams.

The speaker for the technical talk was Dr. Akansha Garg, Postdoctoral Research Associate, The University of Manchester, UK.

The talk commences by introducing the concept of microgrids and their significance in the modern energy landscape. It underscores the importance of localized power generation, storage, and consumption, especially in scenarios where traditional centralized grids face challenges such as outages, high costs, and environmental concerns. Central to the discourse is the notion of real-time power management. The talk expounds on the dynamic nature of microgrids, where power generation from renewable sources like solar panels and wind turbines fluctuates based on weather conditions, and energy demand varies with time. Real-time power management becomes a cornerstone in optimizing energy flow, ensuring stability, and preventing overload or underutilization of resources. Finally, she shared her journey to PDF and discussed the approach for getting into PhD and PDF at reputed research institutions.

Screenshots of expert talk photos are shown below:



Decentralized Control

- Central controller is not present
- Some communication may still be present among the entities

1) With dedicated communication link :

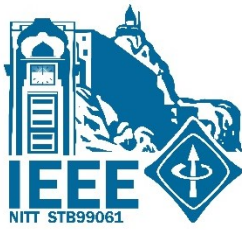
Features:

- Explicit communication link between different entities
- System does not shut down even if any controller fails

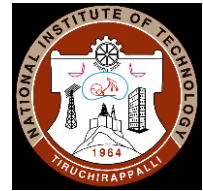
[4] Y. Li and F. NEJABDOKHAR, "Overview of control, integration and energy management of microgrids", in *Journal of Modern Power Systems and Clean Energy*, 2014, pp. Volume 2, Issue 1, pp. 215-222.

[5] Z. Fan, Z. Han, J. Su and Y. Xia, "A Review of Control Strategies for DC Micro-grid", in *Intelligent Control and Information Processing (ICICIP)*, 2013 Fourth International Conference, Beijing, 2013, pp. 669-672.

REAL-TIME POWER MANAGEMENT STRATEGIES IN DC MICROGRID



National Institute of Technology,
Tiruchirappalli – 620 015



National Institute of Technology,
Tiruchirappalli



INVITED TALK

REAL-TIME POWER MANAGEMENT IN MICROGRIDS

8TH AUGUST 2023
03:00 PM

Followed by
Q & A session

Dr. Akansha Garg

Postdoctoral Research Associate
The University of Manchester, UK



Dr. M. Venkata Kirthiga
IEEE SB Counsellor

Biby Joseph
IEEE SB Chairperson



More info

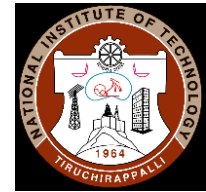
Contact No :+91 73824 09791



scan me to join the group



National Institute of Technology, Tiruchirappalli – 620 015



16.08.2023

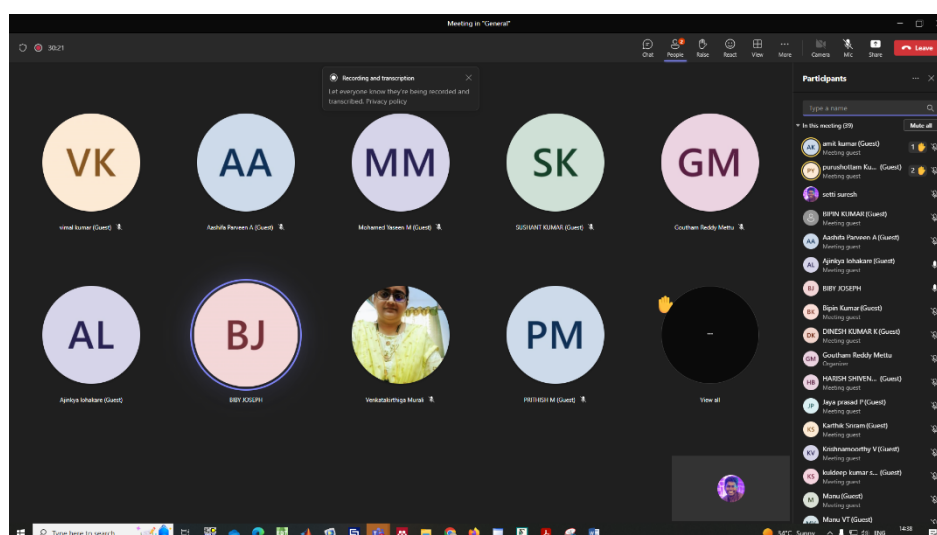
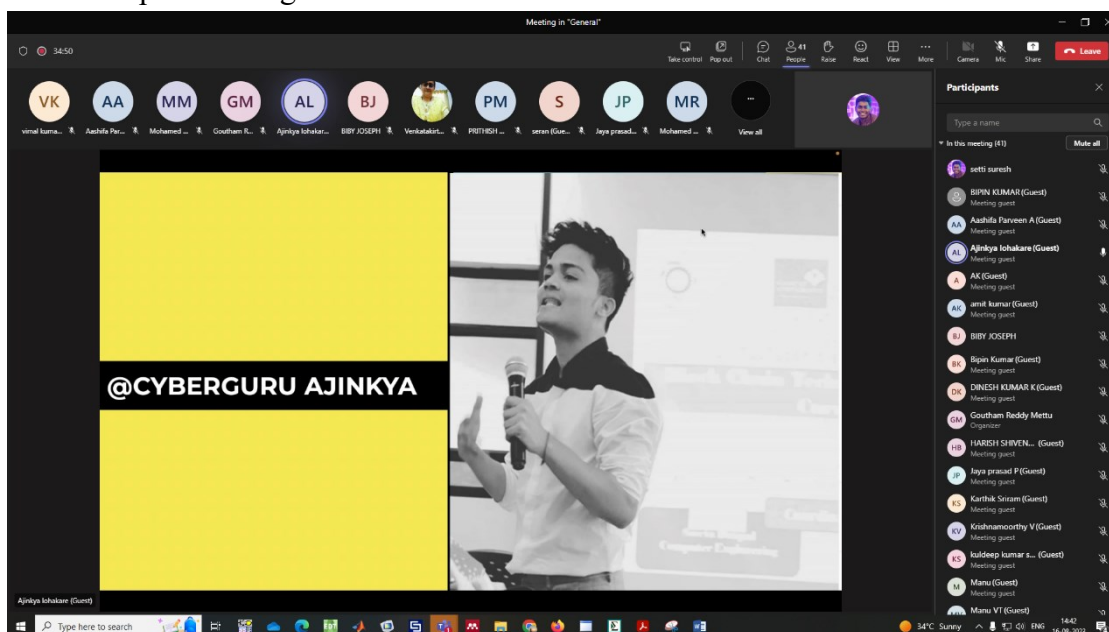
IEEE Student Branch Report of 02 days workshop handled by Mr. Ajinkya Lohakare.

The IEEE Student Branch of NIT Tiruchirappalli organized a two days hands-on online workshop on “Cyber Security and Ethical Hacking” via MS Teams (16th-17th August, 2023).

The speaker for the technical talk was Mr. Ajinkya Lohakare, Certified Ethical Hacker, CTO & Founder of Social-spectra & Ditto Security.

A total of 41 participants from various colleges has registered for the workshop. The welcome address was given by Dr. Venkata Kirthiga, IEEE SB counsellor, following a brief introduction about speaker by Ms. Biby Joseph, chairperson, IEEE SB. The workshop was engaging and filled with plenty of tools to exploit. Finally, the vote of thanks was given by Dr. Rajeswari Sridhar, IEEE SB Faculty secretary.

Some of the event photos are given below:





National Institute of Technology, Tiruchirappalli – 620 015



National Institute of Technology Tiruchirappalli

The National Institute of Technology (formerly known as Regional Engineering College) Tiruchirappalli (NITT), was started as a joint and co-operative venture of the Government of India and the Government of Tamil Nadu in 1964 with a view to catering the needs of man-power in technology for the country. NITT is one of the 31 National Institutes of Technology established by the Government of India and ranks First among all the NITs in NIRF during three consecutive years. The institution offers Undergraduate Courses in ten branches and Post Graduate Courses in twenty-one disciplines of Science, Engineering & Technology besides M.S. (by Research) and Ph.D. in all the departments.

Website: <https://www.nitt.edu>

IEEE Student Branch - NITT

The world's leading professional organization for the advancement of technology has a local address at NIT, Tiruchirappalli. Members rely on the IEEE as a source of technical and professional information, resources, and services. To foster an interest in the engineering profession, the IEEE SB NITT indulge in various technical and non-technical activities. Other important constituencies include prospective members and organizations that purchase IEEE products and participate in conferences or other IEEE programs. IEEE SB NITT and its technical chapters encompasses undergraduate, postgraduate and Ph.D. Scholars from various departments.

Website: <https://site.ieee.org/sb-nitt/>
<https://www.nitt.edu/home/students/clubsnsoccs/acadmic/ieee/>

Objective of the Workshop

To empower attendees with quality information on emerging threats, techniques, strategies, solutions and cost-effective method of ensuring a comprehensive cybersecurity infrastructure. The learner will get knowledge about securing both clean and corrupted system, protect personal data and secure computer networks.

Workshop Modules:

DAY - 1

- Introduction to Cybersecurity and ethical hacking
- Footprinting and scanning
- Enumeration
- System Hacking

DAY - 2

- Hacking wireless password
- Cryptography
- Sniffing
- Hacking web application
- Password cracking tech
- Metasploit exploration

Transform vulnerability into strength: Enhance your digital resilience through our all-inclusive workshop on cybersecurity and ethical hacking. Join us now!

About the Resource Person



Mr. Ajinkya Lohakare

Certified Ethical Hacker,
CTO & Founder of Social-Spectra & Ditto Security,
Josh talk and TEDx Speaker.

Hands-on Workshop

on "Cyber Security and Ethical Hacking"

16th -17th August, 2023

02:30 PM – 04.30 PM

&

05:00 PM – 07.00 PM

Organized by



IEEE Student Branch
NIT Tiruchirappalli



National Institute of Technology
Tiruchirappalli

Registration Fees (Inclusive of GST as applicable)

Category	Amount in Rs.
IEEE Members	400
Non – IEEE Members	500

- The maximum number of participants will be limited to 100. Hence participants are advised to register early.
- Participants will have access to the presentation material through Google Drive for a limited time, during which they can download it.

Registration & Payment Process

- Everyone willing to participate in the workshop must register by filling the Google Form (with all details including payment details) on or before 10.08.2023, 23:59 PM (IST).
<https://forms.gle/XJ321F5DuiJSBuuEA>
- Registered participants will be intimated through the mail on 12.08.2023 by 21:00 PM (IST).

Request for refund of registration fee will not be entertained.

Contacts

For Event Related Queries

- ✓ Biby Joseph
Chairman, IEEE SB,
NIT Tiruchirappalli.
Email: bibyjoseph13@gmail.com
Phone: 7034186401

For Payment Related Queries

- ✓ M Goutham Reddy,
Treasurer, IEEE SB,
NIT Tiruchirappalli.
Email: mreddy97@gmail.com
Phone: 9581313454

Payment Guidelines

- Payment shall be made ONLY through UPI ID or SBI collect.
- Cash / Demand Draft / Cheque / Pay Orders, etc. are NOT ACCEPTED.

Step-by-step procedure to make payment via SBI Collect:

- Step-1: Go to the link: <https://www.onlinesbi.sbi/sbicollect/collecthome.htm>
- Step-2: Select the following from dropdown menu: State of Corporate / Institution: Tamil Nadu Type of Corporate / Institution: Educational Institutions
- Step-3: Select the following from dropdown menu: Educational Institutions Name: IEEE SB NITT
- Step-4: Select the following from dropdown menu: Select Payment Category: Registration Fee
- Step-5: Provide all details of payment >> Then submit

Step-by-step procedure to make payment via UPI ID:

- Step-1: Go to any UPI payment App (BHIM.Gpay, PhonePe, etc.)
- Step-2: Click on New Payment.
- Step-3: Enter UPI ID (ieeesb@sbi) or scan the QR code given and verify that you can see the Merchant Name as 'DIRECTOR NIT TRICHY'.
- Step-4: Make the payment.



IEEE
STB99061 Student Branch - NITT

Hands-on Workshop on "Cyber Security and Ethical Hacking"

16th -17th August, 2023

02:30 PM – 04.30 PM

&

05:00 PM – 07.00 PM

Who can apply?

Individuals affiliated with NITT, including students, research scholars, employees and faculty members.

COORDINATORS

Dr. M. Venkata Kirthiga,
Professor/EEE, IEEE SB
Counsellor

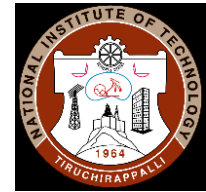
Ms. Biby Joseph,
Chairperson - IEEE SB



National Institute of Technology,
Tiruchirappalli.



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14.10.2023

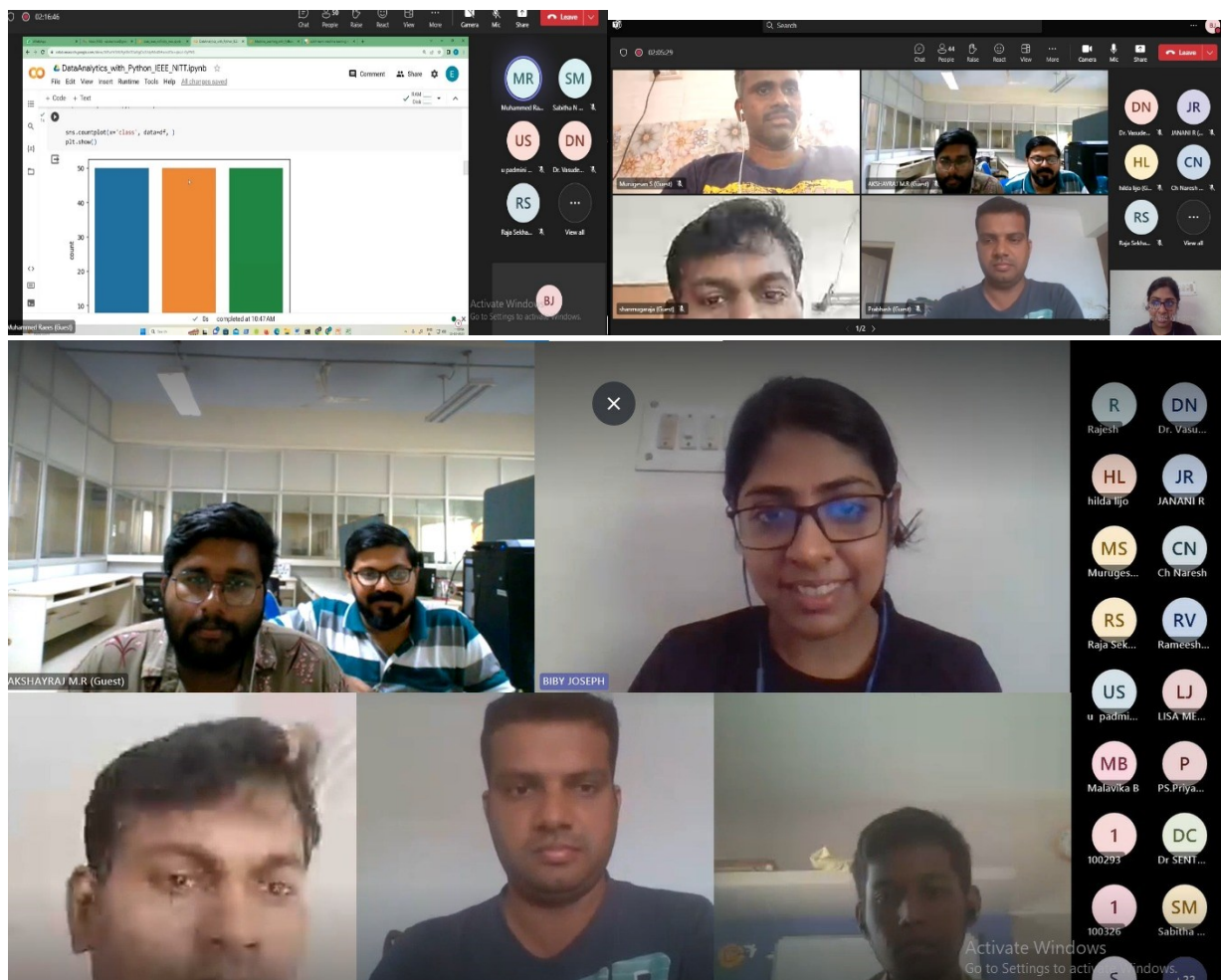
IEEE Student Branch Report of 02 days workshop handled by Mr. Muhammed Raees PC and Mr. Akshayraj MR.

The IEEE Student Branch of NIT Tiruchirappalli organized a two days hands-on online workshop on “Data Analytics with Python” via MS Teams (14th- 15th October, 2023).

The speakers of workshop are Mr. Muhammed Raees PC, Co-Founder & CTO, Edutechnica and Akshayraj MR, Co-Founder Bayestech Pvt. Ltd.

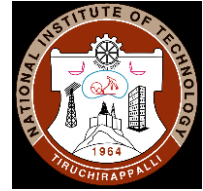
A total of 61 participants from various colleges has registered for the workshop. Throughout the workshop students are immersed in a rich tapestry of Python programming, and machine learning concepts, with a comprehensive understanding of these domains. Additionally, they delved into the exciting landscape of AI's recent developments and explored the promising career opportunities it offers.

Some of the event photos are given below:





**National Institute of Technology,
Tiruchirappalli – 620 015**



**National Institute of Technology,
Tiruchirappalli**



Online **DATA ANALYTICS
WITH PYTHON
WORKSHOP**



TIME

9:00 AM - 11:00 AM AND
11: 15 AM - 1: 15 PM



DATE

OCTOBER 14 & 15



MUHAMMED RAEES PC

Co-Founder & CTO,
Edutechnica,
Research Fellow, NIT
Trichy



AKSHAYRAJ MR

Co-Founder, Bayestech Pvt.
Ltd.,
Research Fellow, NIT Trichy

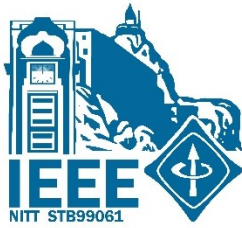
Dr. M. Venkata Kirthiga
IEEE SB Counsellor

Biby Joseph
IEEE SB Chairperson

SCAN TO REGISTER

MORE INFO
CONTACT NO: +91 73824 09791





**National Institute of Technology,
Tiruchirappalli – 620 015**



26.10.2023

IEEE Student Branch Report of 05-day workshop

The IEEE Student Branch of NIT Tiruchirappalli organized a five-day offline workshop on “Refresher Hands-on Workshop” for supporting staff of NITT during 17th - 19th , 25th – 26th October, 2023.

The faculty of NITT from different branches are the speakers of workshop covering the aspects of circuit (ECE/ CA/CSE/ CSG/EEE/ICE), non-circuit (Mechanical/ Production/ Chemical/ Metallurgy / Civil / Architecture) and allied sciences(Physics/ Chemistry etc.) branches.

**National Institute of Technology,
Tiruchirappalli**

REFRESHER HANDS-ON WORKSHOP FOR *Supporting Staff of* **NITT**

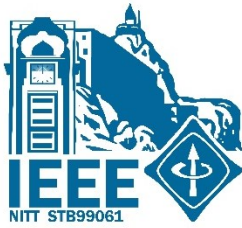
**DATE: OCT 17-19
& OCT 25-26**

Timing:
5PM - 7 PM

SCAN TO REGISTER

Dr. M. Venkata Kirthiga
IEEE SB Counsellor

Biby Joseph
IEEE SB Chairperson



National Institute of Technology, Tiruchirappalli – 620 015



24.11.2023

IEEE Student Branch Report of ‘Felicitation of former office bearers’

The IEEE Student Branch of NIT Tiruchirappalli organized a felicitation event for former office bearers of IEEE SB on 24th November, 2023.

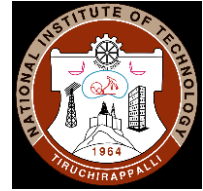
The felicitation was inaugurated by current IEEE SB chairperson followed by a brief address of Dr. Venkata Kirthiga, IEEE SB Counsellor and Dr. M. P. Selvan, immediate past SB counsellor. As a token of appreciation, IEEE hoodies and momento are distributed to the past office bearers.

Some of the photos at the event are given below:





National Institute of Technology,
Tiruchirappalli – 620 015



INVITATION

IEEE STUDENT BRANCH OF NIT TRICHY
CORDIALLY INVITES YOU TO
ATTEND THE

Felicitation Function

of

IEEE SB OFFICE BEARERS 2022

24 NOV 2023, 3 PM

CONFERENCE HALL, EEE DEPARTMENT

Biby Joseph
IEEE SB Chairperson

Dr. M. Venkata Kirthiga
IEEE SB Faculty Advisor



**National Institute of Technology,
Tiruchirappalli – 620 015**



28.11.2023

IEEE Student Branch Report of 01-day workshop handled by Dr. Shriram Vasudevan and Mr. Jayaraman Mahalingam

The IEEE Student Branch of NIT Tiruchirappalli organized a one-day offline workshop on “Unlocking Heterogeneous Computing with oneAPI” on 28th November, 2023.

The speakers of workshop are Dr. Shriram Vasudevan, Lead Tech Evangelist, Intel and Mr. Jayaraman Mahalingam, AI/oneAPI, Tech Program APJ Geo Lead, Intel.

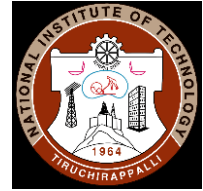
The guests are felicitated by Dr. Rajeswari Sridhar, IEEE SB Faculty Secretary. Workshop was started with brief introduction to oneAPI, Intel Developer Cloud, SYCL – Benefits, Structure, Classes, Sample Codes, Profiling and porting codes to HPC platforms using oneAPI, GenAI with IDC.

Some of the event photos are given below:





National Institute of Technology,
Tiruchirappalli – 620 015



National Institute of Technology,
Tiruchirappalli



UNLOCKING HETEROGENEOUS COMPUTING WITH



Agenda:

1. Introduction to oneAPI, IDC (Intel Developer Cloud)
2. SYCL - Benefits, Structure, Classes, Sample codes.
3. Profiling and porting codes to HPC platforms using oneAPI
4. GenAI with IDC

DATE: 28-11-2023
TIME: 2PM -5PM
MODE: OFFLINE



Dr. Shiram Vasudevan
Lead Tech Evangelist, Intel



SCAN TO REGISTER



Mr. Jayaraman Mahalingam
AI/oneAPI Academia Tech
Program APJ Geo Lead, Intel

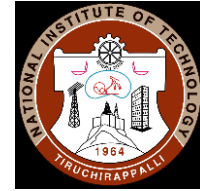
Biby Joseph,
IEEE SB Chairperson

Dr. M. Venkata Kirthiga,
IEEE SB Counsellor

Dr. Rajeswari Sridhar,
IEEE SB Faculty Secretary



**National Institute of Technology,
Tiruchirappalli – 620 015**



30.11.2023

IEEE Student Branch Report of 02-days workshop handled by Dr. S. S. Karthikeyan and Dr. D. Sriram Kumar in association with IEEE MTT-S SB and IEEE AP-S SB.

The IEEE Student Branch of NIT Tiruchirappalli organized a two days offline workshop on “Simulate and Build: Hands-On Workshop on RF and Microwave Devices” from 30th Nov. to 1st Dec., 2023.

The speakers of workshop are Dr. D. Sriram Kumar, Professor and Dr. S.S.Karthikeyan, Associate Professor, from the department of Electronics and Communications Engineering, NITT.

This event serves as the inaugural chapter in an ongoing series, aiming to equip participants with essential knowledge and skills to design and comprehend an RF system independently by the end of the series.

The inaugural day commenced with an enlightening speech by Dr. S. S. Karthikeyan, the esteemed faculty advisor of IEEE MTT-S SB Chapter NITT. Aligned with this, Dr. R. Parthasarathy delivered a comprehensive talk on the theories of radiofrequency and microwave devices, starting from the basics and setting the stage for practical exercises. Post-theoretical sessions, the workshop delved into "Design Simulation using HFSS."

On the subsequent day, participants actively translated theory into reality by designing patch antennas and directional couplers on laptops

Some of the event photos are given below:





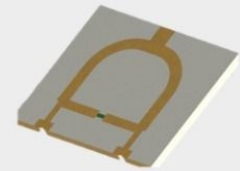
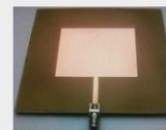
IEEE MTT-S SB and IEEE AP-S SB
in Association with
IEEE Student Branch of
National Institute of Technology, Tiruchirappalli.



Workshop on

"Simulate and Build: Hands-On Workshop on RF and Microwave Devices"

- Day 1: Unlocking RF and Microwave Design Principles**
- Overview of Fundamentals of Microwave components (antennas, filters, couplers, etc.)
 - Simulating the Design
- Day 2: Designing and Prototyping**
- Design Challenges of antenna/filter
 - Prototyping and Testing



Registration Fees

1. IEEE members - Rs.100/-
2. Non-IEEE members - Rs.150/-

Target Audience

Individuals with an interest in Microwave Engineering, including students and professionals affiliated with NITT.

Resource Persons

Eminent Faculty Professors from NIT Trichy



Nov 30 – Dec 1, 2023
02.00 PM – 05.00 PM



E.C.E. Department, NITT

**Complimentary IEEE
MTT-S T-shirts will be
provided to all participants*

Register at:
<https://forms.gle/TQtQ1sQS74dA3LsI9>
or Scan the QR code

Deadline: Nov 24, 2023



Dr. S. S. Karthikeyan
IEEE MTT-S SB Chapter Advisor

Dr. D. Sriram Kumar
IEEE AP-S SB Chapter Advisor

Dr. M. Venkata Kirthiga
IEEE-SB Faculty Advisor

E-mail ID: mtts.sbnitt@gmail.com

Webpage: <https://www.nitt.edu/home/students/clubsnassocs/academic/ieee/>