NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI

IEEE STUDENT BRANCH ACTIVITIES - 2021
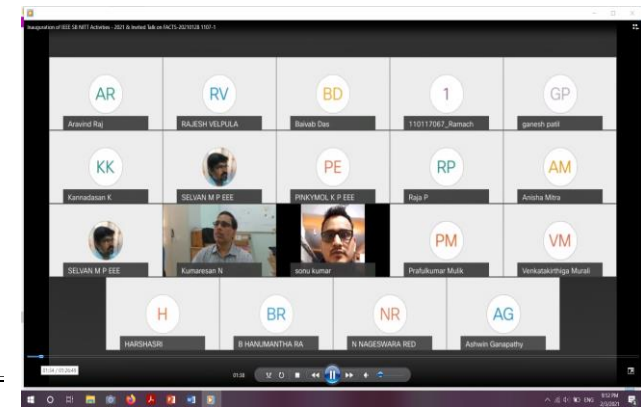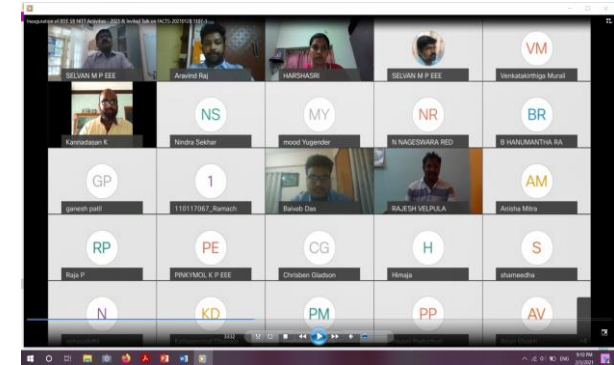
STB99061

IEEE
Student Branch - NITT

Inauguration of IEEE STUDENT BRANCH activities for the year 2021

- The inaugural ceremony of IEEE Student Branch activities for the year 2021 was conducted on 28th January, 2021 over the WebEx Meetings platform.

- The Chief Guest at the occasion was Mr. Aravind Raj A, R&D Engineer, Hitachi ABB Power Grids, Chennai.

- The ceremony began with an invocation to the almighty, followed by the Welcome address and the Presidential address. Then the activities of 2020's student branch were summarized by the SB Chairman and its office bearers were felicitated by the SB Counsellor who also introduced the new office bearers. The Chief Guest then gave the inaugural address, after which the action plan for 2021 was presented.

Inauguration of IEEE SB activities for the year 2021 on 28.01.2021

Invited talk on "Recent Trends in FACTS"

- The IEEE SB of NIT-Tiruchirappalli organized a technical webinar on the topic "Recent Trends in FACTS" over the WebEx Meetings platform.

- The technical webinar was handled by Mr. Aravind Raj A, R&D Engineer, Hitachi ABB Power Grids, Chennai.

- Mr. Raj covered different topics like introduction to FACTS technology, series compensation using series capacitors and TCSC, shunt compensation using SVC and STATCOM and the recent trends in this field like hybrid solutions.

- The session was attended by UG & PG students, PhD scholars and faculties from various departments of NITT.

Invited talk on "Recent Trends in FACTS" on 28.01.2021

Invited talk on "Science Behind Engineering Materials"

- The IEEE SB of NIT-Tiruchirappalli in association with the IEEE Madras Section organized a technical webinar on the topic "Science Behind Engineering Materials" over the WebEx Meetings platform.

- The technical webinar was handled by Dr. V. S. Srinivasan, Professor, Homi Bhabha National Institute and Head, LIMS, IGCAR, Kalpakkam.

- Dr. Srinivasan covered different topics like types of bonding, fundamentals of crystals, mechanical testing, fatigue of materials, life assessment, superconductivity and the use of Zirconium alloy in nuclear reactors.

- The session was attended by UG & PG students, PhD scholars and faculties from all over the country.

Invited talk on "Science Behind Engineering Materials" on 29.01.2021

Invited talk on "Utility Scale Solar Power Plant"

- The IEEE SB of NIT-Tiruchirappalli organized a technical webinar on the topic "Utility Scale Solar Power Plant" over the WebEx Meetings platform.

- The technical webinar was handled by Mr. Shino Shibu, Deputy Executive Engineer, Solar Projects, NLC India Ltd.

- Mr. Shibu covered different topics like introduction to solar power plants (SPP), major components in SPP, power evacuation substation, design of SPP, energy storage in SPP and research ideas in this area.

- The session was attended by UG & PG students, PhD scholars and faculties from all over the country.

Invited talk on "Utility Scale Solar Power Plant" on 23.02.2021

Online Workshop on "Cyber Security and Ethical Hacking"

- The IEEE SB of NIT-Tiruchirappalli in association with IEEE Computer Society Chapter organized an online workshop on "Cyber Security and Ethical Hacking" over the WebEx Meetings platform.

- The online workshop was handled by Mr. Ajinkya Lohakare, Certified Ethical Hacker, Founder & CEO of Ditto Security.

- Mr. Lohakare covered different topics like vulnerability of the internet enabled devices, website phishing, Crypter software, recon engine, Tor browser, Maltego, virus detection, hacking, cryptography and disk encryption

- The workshop was attended by UG & PG students, PhD scholars and faculties from all over the country.

Invited talk on "Cyber Security and Ethical Hacking" from 16.04.201 to 20.04.2021

Online Workshop on "Cloud Computing and Big Data"

- The IEEE Student Branch of NIT-Tiruchirappalli in association with IEEE Computer Society Chapter and Robosol – For a Cause organized a five-day online workshop on "Cloud Computing and Big Data" during 17th – 21st May 2021 via WebEx meetings.

- The event was handled by Mr. Vivek Yadav, Senior Researcher & Developer, Robosol – For a Cause.

- Mr. Yadav covered several topics like cloud computing services, emergence of Big Data, AWS management console, EC2 instances, cryptography & disk encryption tools, spoofing and IOT hacking.

- The workshop was attended by UG & PG students, PhD scholars and faculties from all over the country.

Invited talk on "Cloud Computing and Big Data" from 17.05.201 to 21.05.2021

Invited talk on "Detecting Deceit Information from your Brain Activity"

- The IEEE SB of NIT-Tiruchirappalli in association with the IEEE Computer Society chapter organized a technical webinar on the topic "Detecting Deceit Information from your Brain Activity" over the WebEx Meetings platform.

- The technical webinar was handled by Dr. Annushree Bablani, Assistant Professor, IIIT Sri City, Chittoor, Andhra Pradesh.

- Dr. Bablani covered different topics like brain computer interface and its applications, invasive & non-invasive methods for brain signal acquisition, signal processing, deceit information test, and EEG data classification.

- The session was attended by UG & PG students, PhD scholars and faculties from all over the country.

Invited talk on "Detecting Deceit Information from your Brain Activity" on 09.06.2021

Invited talk on "AI for legal domain"

- The IEEE SB of NIT-Tiruchirappalli in association with the IEEE Computer Society chapter organized a technical webinar on the topic "AI for legal domain" over the WebEx Meetings platform.

- The technical webinar was handled by Dr. Rajeshwari Sridhar, Associate Professor, Department of Computer Science Engineering, NIT Tiruchirappalli.

- Dr. Sridhar started the session by introducing AI and its allied domains. The research and development of computer systems that can intelligently solve problems in legal domain was the main highlight of the session.

- The session was attended by UG & PG students, PhD scholars and faculties from all over the country.
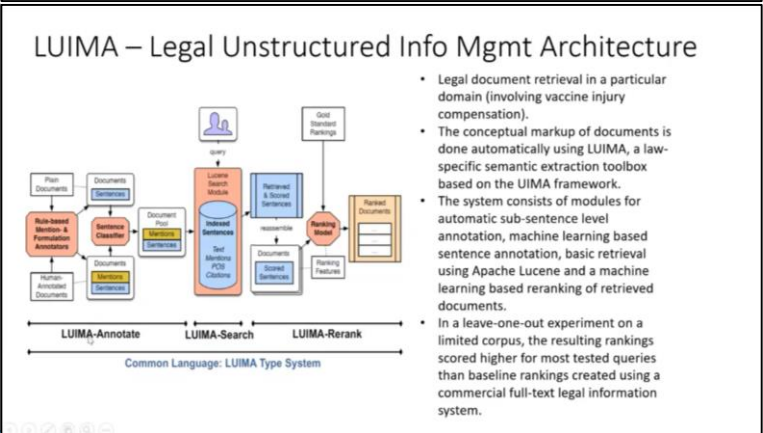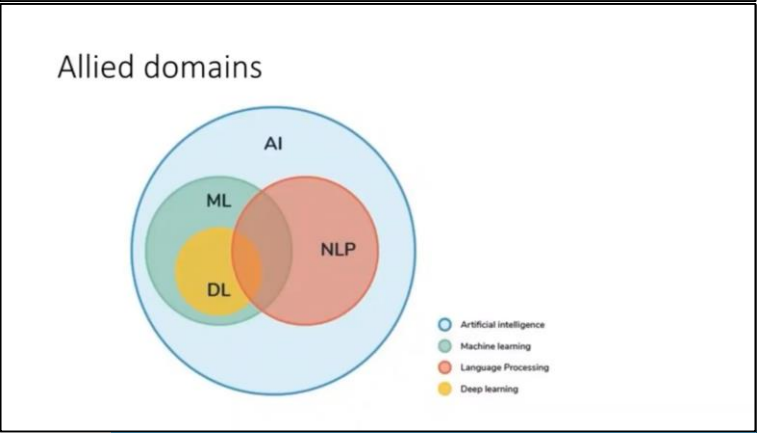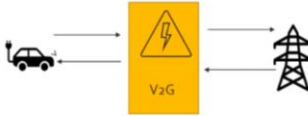
Invited talk on "AI for legal domain"
on 07.07.2021

Webinar on "V2G Technology and Market"

- The IEEE SB of NIT-Tiruchirappalli in association with the IEEE Power & Energy Society chapter of IEEE Madras Section organized a technical webinar on the topic "V2G Technology and Market" over the WebEx Meetings platform.

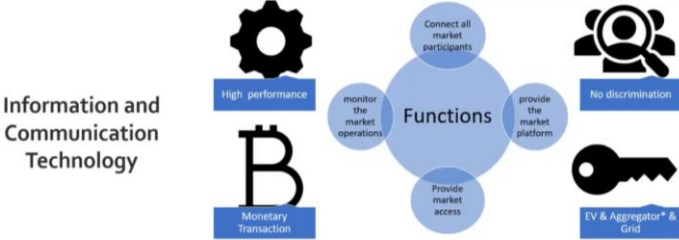- The technical webinar was handled by Mr. Ritesh Acharya, MS student, Department of Electrical and Electronics Engineering, NIT Tiruchirappalli.

- Mr. Acharya covered several topics such as types of electric vehicles, their role in the energy sector, vehicle to grid (V2G) technology- its system requirements, applications, trial projects, and challenges.

- The session was attended by UG & PG students, PhD scholars and faculties from all over the country.

Webinar on "V2G Technology and Market" on 06.08.2021

Online Alumni Interactive Workshop on "Electric Power Engineering"

- The IEEE Student Branch of NIT-Tiruchirappalli in association with IEEE Power & Energy Society Chapter organized a five-day online alumni interacive workshop on "Electric Power Engineering" during 13th – 17th September 2021 via WebEx meetings.

- The workshop was handled by alumni of the Department of Electrical & Electronics Engineering, NIT Tiruchirappalli.

- Several topics were covered during the workshop such as FACTS devices, electrical engineering technologies, role of power converters in electric vehicles, protection issues and challenges in PV-connected modern power systems, and islanding detection in microgrids.

- The workshop was attended by UG & PG students, PhD scholars and faculty from NITT.

Online Alumni Interactive Workshop on "Electric Power Engineering" from 13.09.201 to 17.09.2021

Online Workshop on "Antenna & Microwave Circuits Design Using CST & TaraNG"

- The IEEE Student Branch of NIT-Tiruchirappalli in association with IEEE APS Chapter organized a five-day online workshop on "Antenna & Microwave Circuits Design Using CST & TaraNG" during 29th October – 02nd November 2021 via Microsoft Teams.

- The workshop was handled by the personnel from Jyoti Electronics & TaraNG.

- Several topics were covered during the workshop such as an introduction to CST & TaraNG solvers, MIMO antenna design, antenna based metamaterials, SIW antenna, reconfigurable antenna, rectifier design, wire antenna design, and RF circuit design.

- The workshop was attended by UG & PG students, PhD scholars and faculty from NITT.
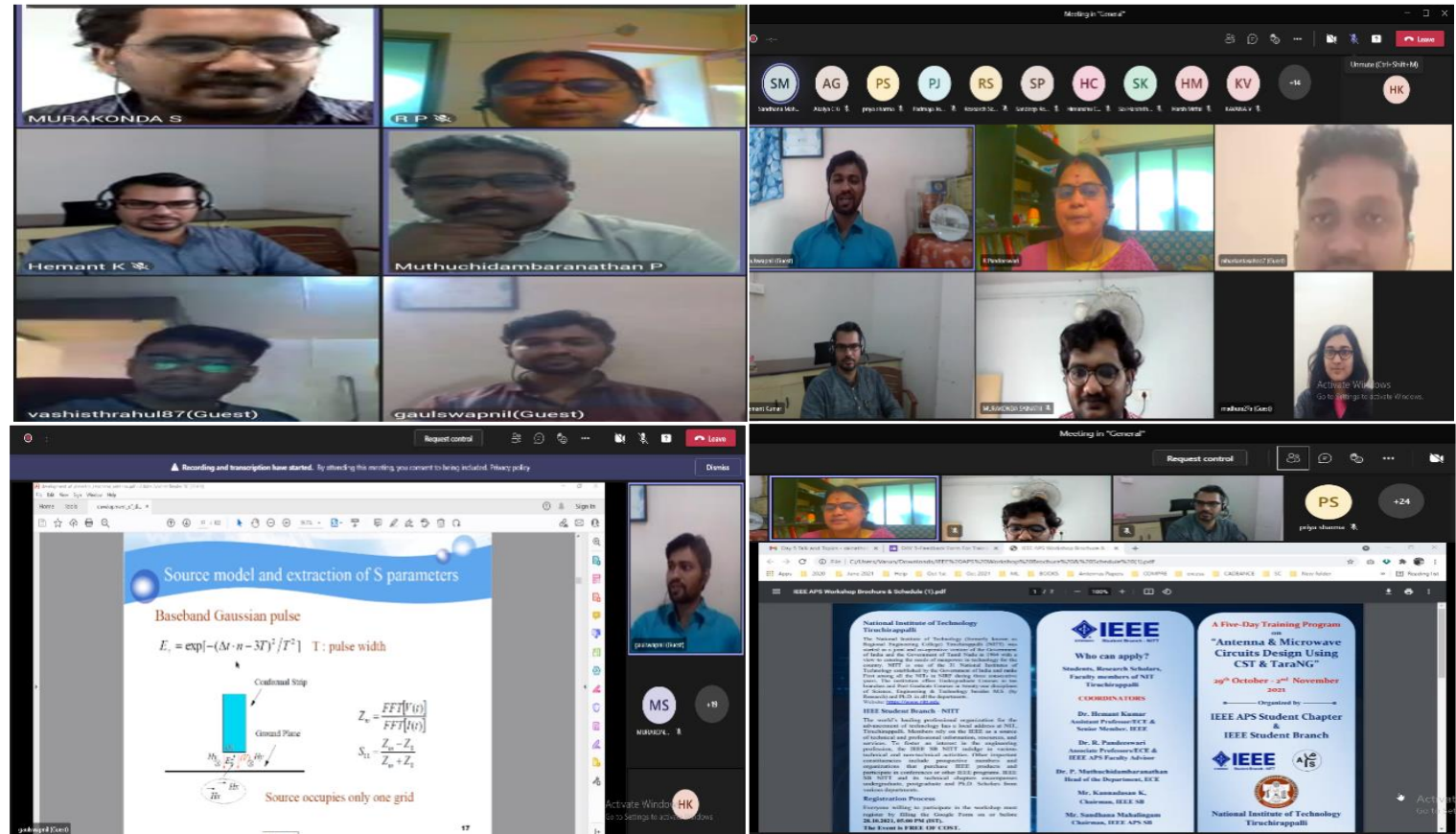
Online workshop on "Antenna & Microwave Circuits Design Using CST & TaraNG" from 29.10.2021 to 02.11.2021

Online Session on "Sensitization of IEEE SB NITT"

- The IEEE Student Branch of NIT-Tiruchirappalli organized a webinar on "Sensitization of IEEE SB NITT" on 22nd December 2021 via YouTube Live.

- The session was handled by Mr. Kannadasan K, Chairman, IEEE SB NIT-T and Research Scholar, Department of Computer Science Engineering, NIT Tiruchirappalli

- Mr. Kannadasan covered several topics like introduction to IEEE, activities organized by NIT Tiruchirappalli student branch, student membership benefits, membership application process and promotional code for availing membership fee discount.

- The workshop was attended by UG & PG students, PhD scholars and faculty from NITT.

Online session on "Sensitization of IEEE SB NITT" on 22.12.2021

Technical Society Chapters

1. Antennas & Propagation Society (**APS**) chapter

2. Computer Society (**CS**) chapter

3. Industry Applications Society (**IAS**) chapter

4. Microwave Theory & Techniques Society (**MTTS**) chapter

5. Power & Energy Society (**PES**) chapter
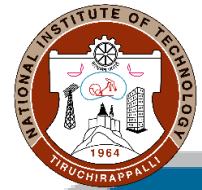
IEEE Student Branch Activities - 2021

- Invited Talks – 6
- Inauguration Ceremonies – 1
- Membership Drives – 1
- Technical Workshops – 4
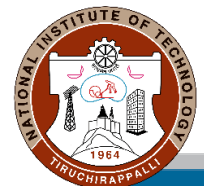
IEEE Student Branch Committee
Faculty Members

Name	Designation/Department	Role
Dr. M.P. Selvan	Associate Professor/EEE	Branch Counsellor
Dr. N. Kumaresan	Professor/EEE	IEEE SB Advisor
Dr. A.K. Bakthavatsalam	Professor/T&P	Coordinator, IEEE - EPICS
Dr. K. Dhanalakshmi	Professor/ICE	Women in Engineering & Initiation of IEEE society activities
Dr. Rajeswari Sridhar	Associate Professor/ CSE	
Dr. M. Venkatakirthiga	Associate Professor/EEE	Faculty Secretary, IEEE SB, NITT
Dr. P. Raja	Associate Professor/EEE	Membership drive & Faculty Advisor, PES Chapter
Dr. S. Moorthi	Associate Professor/EEE	Student project funding & Faculty Advisor, IAS Chapter
Dr. R. Pandeeswari	Associate Professor/ECE	Faculty Advisor, APS Chapter
Dr. S.S. Karthikeyan	Assistant Professor/ECE	Faculty Advisor, MTTS Chapter
Dr. B. Shameedha Begum	Assistant Professor /CSE	Faculty Advisor, Computer Society
Dr. R. K. Kavitha	Assistant Professor / ECE	Membership drive, Student project funding & Mentoring various student activities.
Dr. S. Jaya Nirmala	Assistant Professor / CSE	
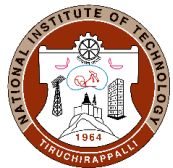
IEEE Student Branch Committee Student Members

Name	Program/Department	Role
Mr. Kannadasan K	Ph.D./CSE	Chairperson
Mr. Alok Kumar	M.Tech./Civil	Vice-Chairperson
Mr. Arjun Visakh	Ph.D./EEE	Secretary
Mr. Patil Ganesh Anil	M.Tech./EEE	Additional Secretary
Mr. B Hanumantha Rao	Ph.D./EEE	Treasurer
Mr. Baivab Das	M.Tech./CSE	Webmaster

IEEE Student Branch Committee
Student Members – Executive Committee

Name	Program/Department
Mr. Nindra Sekhar	Ph.D./EEE
Mr. Sandhana Mahalingam M	Ph.D./ECE
Mr. N Nageswara Reddy	Ph.D./EEE
Ms. Rajesh Velpula	Ph.D./EEE
Ms. Kanakavalli Harshasri	Ph.D./ECE
Ms. Rachel Selva Dhanaraj	Ph.D./CSE
Ms. Sugirtha T	Ph.D./CSE
Mr. Prafulkumar Mulik	M.Tech./EEE

ONLINE PRESENCE

Website

http://sites.ieee.org/sb-nitt/

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

Social Media

Facebook : https://www.facebook.com/ieeesbnitt/

LinkedIn : https://www.linkedin.com/company/nitt-ieee-student-branch

Instagram : ieeesbnitt

CONTACT

E-mail
ieee-sb@nitt.edu
Ieeesb.nitt@gmail.com

Dr. M.P. Selvan
IEEE SB Counsellor
NIT Tiruchirappalli
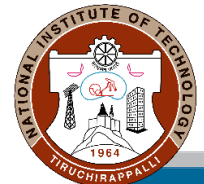Phone: 9444170638
E-mail: selvanmp@nitt.edu

Kannadasan K.
IEEE SB Chairman
NIT Tiruchirappalli
Phone: 95972 00112
E-mail: kannadasankk@gmail.com

Thank You