

IEEE STUDENT BRANCH ACTIVITIES - 2018



Chief Guest
Dr. S.K.Ramesh

- Vice President,
- IEEE Educational Activities and
- President, IEEE-HKN

Presided by
Dr. Mini Shaji Thomas
Director,
NIT-T

**25th
May
2018**

- Student Branch office bearers were introduced to the gathering
- Signing of MoU by and between NIT-T and IEEE EPICS, Purdue. Dr. Mini Shaji Thomas described the role of IEEE in shaping her successful career.
- Dr. S. K. Ramesh presented the rural development projects carried out all over the world through the EPICS in IEEE. Also, he encouraged the current office bearers to start an IEEE-HKN chapter at NIT-T.



**INAUGURATION OF IEEE SB, NIT-T
ACTIVITIES (2018) & MOU SIGNING
WITH IEEE EPICS, PURDUE**



RESOURCE PERSON

Dr. Nagi Naganathan

Vice-chair of IEEE Princeton (Central Jersey Section), and Chair of SSCS chapter

3rd July 2018

- Dr. Nagi spoke on the opportunities that await student volunteers to contribute to the development of society through the numerous avenues created by the IEEE, like the EPICS in IEEE, Rural Electrification projects of the PES society, etc.



INVITED LECTURE ON “IEEE AND
ENGINEERING PROJECTS”



RESOURCE PERSONS

Dr. P. KARUPPANAN

Asst. Prof., Department of ECE,
MNNIT, Allahabad

DR. P. RAJA

Assoc. Prof., Department of EEE, NIT-T

12th July 2018

- Dr. P. Raja started the session with an introduction to Simulink blocksets using a simple DC machine model to familiarise beginners of MATLAB with the interface.
- Dr. P. Karuppanan conducted a hands-on simulation session on the design and implementation of an active power filter for providing reactive power support to the utility grid.

36 students from UG/PG programmes participated in the tutorial session

TUTORIAL ON “ACTIVE POWER FILTER DESIGN USING MATLAB”



RESOURCE PERSON

DR. S. ARUL DANIEL

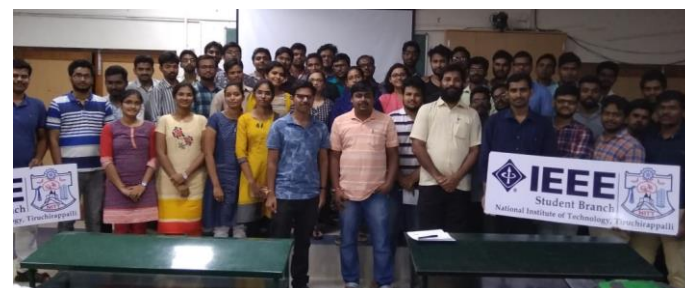
Professor, Department of EEE, NIT-T

13th August 2018

- Dr. Daniel brought out the conflicting views of learners and academicians of engineering education
- He stressed on the structural changes required in the academic ecosystem to nurture the new skills demanded by the changing scenario
- IEEE student and faculty members were part of the gathering



LECTURE ON “EXPECTATIONS IN ENGINEERING EDUCATION”



RESOURCE PERSONS

HANUMANTHA RAO, SUHANYA MS, DIBYARAJ K BEHERA

(Research scholars / Department of EEE, NIT-T)

27th – 31st August 2018 (4.00 – 5.30 P.M.)

- Day 1: Basics of MATLAB programming
- Day 2: Using the MATLAB toolboxes
- Day 3: Simulation of Power Converter circuits
- Day 4: Simulation of examples in Power Systems
- Day 5: Simulation of Electrical drives

54 students from UG/PG programmes participated in the hands-on workshop.

WORKSHOP ON “MATLAB PROGRAMMING AND APPLICATIONS – AN ELECTRICAL ENGINEERING PERSPECTIVE”



RESOURCE PERSON

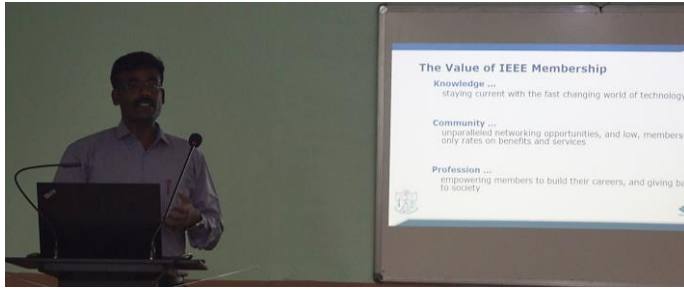
Dr. SUBHRANSU RANJAN SAMANTARAY

Assoc. Prof., School of Electrical Sciences, IIT Bhubaneswar

20th September 2018

- Dr. Samantaray spoke of recent developments in the area of electric power system protection, with a focus on transmission line protection
- The advantages of employing PMUs and the necessity for development of high-speed controllers (to work in tandem with PMUs) and efficient algorithms for fault identification and isolation were emphasized

INVITED LECTURE ON “WIDE AREA MEASUREMENTS (WAMS) FOR PROTECTION OF TRANSMISSION LINES”



RESOURCE PERSON

DR. P. RAJA

Assoc. Prof., Department of EEE, NIT-T

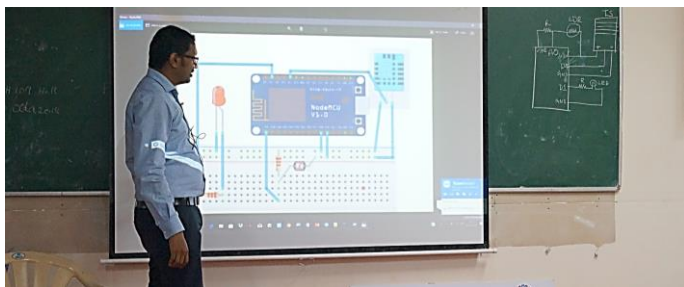
3rd October 2018

Dr. P. Raja spoke on

- the evolution of IEEE and its existence way before the Internet came into being.
- Value of IEEE and contribution to knowledge, community and profession.
- IEEE as a dedicated technical search engine for technical knowledge, career advancement and professional networking
- Benefits and avenues of development for members of IEEE.

59 students and faculty members were part of the event

**IEEE MEMBERSHIP DRIVE —
BENEFITS & JOIN IEEE**



RESOURCE PERSON MR. A. ARAVINDAN

Solution Architect, Caterpillar, Chennai

5th & 6th October 2018

- **HANDS – ON TRAINING WITH NODE MCU** development board, interfacing circuits, 6 sensors, cloud based applications
- **HACKATHON** – Best Project Award in five separate tracks
- **Overall feedback** – *Excellent*

74 participants (of which 37 external) & 15 volunteers



TWO-DAY WORKSHOP ON IOT

TRAVEL GRANT FOR IEEE CONFERENCE

- **Er. S. Singh**, Dept. of EEE, NIT – Tiruchirappalli was recipient of the travel grant offered by IEEE PES for presenting his research work at 2019 IEEE PES GTD Grand International Conference and Exposition Asia (GTD Asia), Bangkok, Thailand, 2019. The paper details are found below:
- S. Singh, A. Namboodiri and M. P. Selvan, "*Simplified Algorithm for Dynamic Demand Response in Smart Homes Under Smart Grid Environment*," 2019 IEEE PES GTD Grand International Conference and Exposition Asia (GTD Asia), Bangkok, Thailand, 2019, pp. 259-264.
- The paper can be found in the link below:

Link: <https://doi.org/10.1109/GTDAsia.2019.8715935>



Er. S. Singh

