





IEEE MAS LINK

Vol. 17 No. 1 January – March 2020

-  **Chairman's Message**
-  **Message from Editor**
-  **IEEE MAS Sub-Committee**
-  **Student branch activities**



Chairman's Message

Greetings to one and all.

I am very happy to be elected as a Chairman of IEEE Madras section. Thank you very much for the strong support given to me and my team of ExeCom members in electing us. First I wanted to thank the outgoing Chair and his team for all the good works in the past two years. I thank all the members of IEEE Madras Section for their enthusiastic participation in the annual meet. I also congratulate all the awards winners of the annual meet.



Our agenda for this year is:

1. To improve IEEE professional student members.
2. Creating a bridge between the section, R10 and headquarters by organizing conferences, workshops, education and professional activities.
3. To motivate individuals, student branches and societies by giving complete support to them from the section.
4. To make IEEE madras section as a technical home for all.

We have formed various subcommittees this year to achieve the above objectives. We are confident that the chairs will contribute special focus to their respective committees to achieve the goal with your support.

Based on the applications received for the various MGA awards, the committee has scrutinized few for the section endorsement.

Many conferences and workshops are postponed due to the unprecedented COVID19, we would highly encourage everyone to follow the guidelines given by the Government to stay safe. Amid the stress and uncertainty, the global community has evolved to adapt to the usage of virtual collaboration, likewise we at madras section has started with the online activities. All IEEE USA eBooks and audio books are available to all members for a limited period. Kindly use this opportunity to advance your career, soft skill, and to learn about public policy or even for a fun distraction.

Best wishes and looking forward to meeting and sharing your views and discussions during the IEEE programs / events / online activities.

Dr. N. Kumarappan M.E., Ph.D.
Chairman, IEEE Madras Section

Message from Editor

Greetings...!

I am happy to release the January-March 2020 edition of IEEE MAS Newsletter. At the outset, I congratulate the new ExeCom team of IEEE MAS 2020-2021 and also thank the immediate past chair, Dr.Manoharan and the previous ExeCom team for all the activities carried out during the preceding year.



It is really painful to witness the deaths occurring due to Corona virus across the world and Government is taking necessary steps to prevent the spread. Follow the advice given by competent authorities and stay safe during this period. Try to interact and professionally remain connected and upgrade your knowledge during this lockdown period by attending relevant online courses.

IEEE MAS Newsletter will be circulated as ecopy once every three months in a calendar year. Some guidelines for newsletter reporting is given and I request all SB counsellors, Society chapter chairs and other reporting officers to kindly adhere the guidelines while reporting events.

url: <https://tinyurl.com/vccltba>

All are requested to kindly adhere to the new norms for timely release of Newsletters. It shall be noted that inclusion of reports into Newsletter is at the discretion of Editorial team.

I extend my heartfelt thanks to all IEEE members for the support and understanding and let us work in-phase for betterment of IEEE community and bring a positive change to professionals and student community.

Dr. S. Joseph Gladwin M.E., Ph.D.

Associate Professor, ECE Department, SSN College of Engineering
Treasurer and Editor – IEEE MAS Newsletter, IEEE Madras Section.

IEEE MAS Sub-Committee

IEEE MAS 2020 ExeCom

Sl.No.	Member Name	Designation	Sub-committee
1.	Dr. N. Kumarappan, Annamalai University, Chidambaram	Chairman	Student Activities
2.	Dr. R. Hariprakash, Bharath Institute of Higher Education and Research, Chennai	Vice Chairman – Academics	Membership Development
3.	Dr. R. Ramarathnam, SIDCO Industrial Estate (Retired), Chennai	Vice Chairman – Industry	Industry relations
4.	Dr. D. Devaraj, Kalasalingam Academy of Research and Education, Srivilliputhur	Secretary	Educational Activities
5.	Dr. S. Joseph Gladwin, Sri Sivasubramaniya Nadar College of Engineering, Chennai	Treasurer	Newsletter Editor
6.	Dr. P.A. Manoharan, Robota Technology Innovation Pvt., Ltd.,	Immediate Past Chairman	Advisor
7.	Dr. R. Venkatesan, National Institute of Ocean Technology, Chennai	Member	Project coordinator
8.	Dr. K. Vijayakumar, St. Joseph's Institute of Technology, Chennai	Member	Webmaster
9.	Dr. R.G. Sangeetha, Vellore Institute of Technology, Chennai	Member	Newsletter co-coordinator
10.	Dr. N. Nithyavathy, Kongu Engineering College, Perundurai	Member	WIE
11.	Dr. M. Venkatesh Kumar, Amrita Vishwa Vidyapeetham, Chennai	Member	Professional Activities and YP
12.	Dr. D. Nirmal, Karunya Institute of Technology and Sciences, Coimbatore	Member	Awards & Recognition
13.	Dr. Thangaprakash Sengodan, SVS College of Engineering, Coimbatore	Member	SIGHT coordinator
14.	Dr. S. Salivahanan Principal, Sri Sivasubramaniya Nadar College of Engineering, Chennai		Ombudsman
15.	Dr. M. Ponnaivaiko Provost, Bharath University, Chennai		Ethics committee chair

Student branch activities

Dr. N. G. P. Institute of Technology

Industrial Lecture series- Opportunities for Electrical Engineers in core Industries

The IEEE SB and EEE department organized Industrial Lecture series- Opportunities for Electrical Engineers in core Industries on 22.01.2020 for EEE students. Er.P.Selvakumar, Technical Advisor, Kulti & Nathan Company- Chennai highlighted about the importance of core sectors and opportunities available in core sectors. He delivered seminar on Career guidance to Electrical and Electronics Engineering students and faculty members. He also discussed about Opportunities for Internship with Stipends in Core Industries, how to choose career, and various guidance available for choosing career, what to choose and why to choose.



Visit to Power House

The IEEE SB and EEE department organized power house visit on 31.01.2020 for EEE students. Mr. A.Senthilnathan, AP/EEE discussed about alternator rating and average usage of power for Dr.NGPIT using diesel power plant. There are two alternators of rating 300 KVA and 250 KVA to meet out the demand of Dr.NGPIT. The EEE students and faculties obtained knowledge about sharing of load by alternators and steps to be followed for parallel operation of alternators.



Live Demonstration on Earthing

The IEEE SB organised Live Demonstration on Earthing on 31.01.2020 for EEE students. Mr.A.Senthilnathan, AP/EEE discussed about various earthing and explained how the earth wire prevents users from receiving an electric shock. He also explained the various steps to be followed for Chemical Earthing Installation and maintenance required for earthing.



Higher Studies Opportunities in Abroad for Electrical Engineers

The IEEE SB Lecture Series - Higher Studies Opportunities in Abroad for Electrical Engineers on 11.02.2020 for Electrical and Electronics Engineering students. Mr.A.R.Muthukumar, Quality Engineer, Bosch Car Multimedia, Portugal highlighted about the Higher studies opportunities available for electrical engineers in Portugal.. He delivered seminar on Career guidance to Electrical and Electronics Engineering students and faculty members. He also discussed about Opportunities for Internship with Stipends in Core Industries.



How to crack the Gate Examination

The IEEE SB organized Awareness programme - How to crack the Gate Examination on 14.02.2020 for Electrical and Electronics Engineering students. Mr.Saravanakumar A, Manager- Head, GATEFORUM- Coimbatore discussed about He highlighted about the GATE score which reflects the relative performance level of a candidate. He also added that Gate score is used for admissions to various post-graduate programmes in Indian higher education institutes with financial assistance provided by MHRD and other Government agencies. The score may also be used by Public sector units (PSUs) for employment screening purposes.



Applications of Switchgear products and Magnetic Products

The IEEE SB organized Industry Lecture Series on 29.02.2020 for EEE students. Er. N. Jayabal, Director, Salzer Electronics Limited, Coimbatore discussed about applications of switchgear products manufactured by salzer electronics limited Coimbatore. Er. D. Rajanayagam, Manager, Salzer Electronics Limited, Coimbatore highlighted about magnetic products manufactured by salzer electronics limited Coimbatore.



Report by: Dr. K. Porkumaran (90534204) Sr.MIEEE, IEEE Student Branch Counsellor, porkumaran@gmail.com

Dr. Sivanthi Aditanar College of Engineering

Two Days National Workshop on Emerging trends in Communication Engineering

On behalf of IEEE SB, Two Days National Workshop on Emerging trends in Communication Engineering was conducted on 13th & 14th March 2020 sponsored by IEEE Photonics Society Madras chapter. The welcome address of the workshop was delivered by Mr. VDM. Jabez Daniel, AP/ECE & Secretary IEEE Photonics Society. The chief guest introduction was given by Dr.R.Manjith, ASP/ECE, Vice-Chair, IEEE Photonics Society and IEEE SB Counselor. The Presidential address was given by Dr. G.Wiselin Jiji, Principal.



The workshop was organized in five sessions with day one comprised of two sessions and day two comprised of three sessions Dr. C. Geetha Priya, Professor / ECE & Mrs. S. Nisharani, Assistant Professor/ECE, Kamaraj College of Engineering & Technology, was invited as the chief guest/resource person for the workshop. The introduction and basics about the trends in wireless communication was covered in day one of the workshop. The real time applications of wireless communication in cognitive radio were briefly explained in day two of the workshop. Hands on tutorials and assignments were distributed for the participants. A total of fifty participants including IEEE members, PG Scholars and faculty members from various institutions had attended the workshop. The vote of thanks was delivered by Dr. R.Manjith, ASP/ECE. Certificate distribution and feedback session and was arranged at the end of the seminar. Finally the programme ended with the National Anthem.

JCT College of Engineering and Technology, Coimbatore

Two days "Seminar on IOT Based Industrial Automation"

The Department of Electrical and Electronics Engineering and IEEE Student Branch of JCT College of Engineering and Technology organized two days "Seminar on IOT Based Industrial Automation" on 27th & 28th September 2019. Dr. Abdul Bashar, Professor, College of Computer Engineering & Sciences, Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia, inaugurated and delivered inaugural address.

He pointed out the importance of Seminar and use of IOT in Industrial Applications. The function started with Prayer song followed by the lightening of "Kuthuvilakku" at 10 am in the Seminar Hall. Dr.K.Geetha, HOD/EEE delivered the welcome address. Dr.G.Ramesh, Principal, JCTCET delivered the presidential address. Finally Mr.S.Manikandan, AP / EEE delivered the vote of thanks. More than 50 participants from various Engineering Colleges across the nation attend the Seminar. The sessions was Handled by Dr.K.Geetha, Professor and Head/EEE, Mr.Manikandan S, AP / EEE, JCTCET and Dr.J.Jayakumar, Professor, Department of EEE, Karunya University. Certificates provided for all the Participants in the valedictory function.



Two days “Workshop on advanced technology in solar systems”

The Department of EEE and IEEE SB organized two days “workshop on advanced technology in solar systems” on 10, 11 January 2020. Mrs.Kuppuraj Suganthi, Director, MAS Solar Systems Pvt Ltd, Coimbatore, inaugurated and delivered inaugural address. She pointed out the importance of Workshop in Solar Systems. The function started with Prayer song followed by the lightening of “Kuthuvilakku” at 10 am in the Seminar Hall. Dr.K.Geetha, HOD/EEE delivered the welcome address. Dr.G.Ramesh, Principal, JCTCET delivered the presidential address.



Finally Mr.S.Manikandan, AP / EEE delivered the vote of thanks. More than 40 participants from various Engineering Colleges across the nation attend the Workshop. The sessions was Handled by Executive Trainees Mr.C.Sivakumar and Mr.M.Nambidhas, MAS Solar Systems, Coimbatore. Certificates provided for all the Participants in the valedictory function.

Report by: Dr. K.Geetha, jctiesb@gmail.com

Jeppiaar Institute of Technology

Industrial Visit

IEEE Student Branch and IT department has organized for the Students from the second year IT department on Jan 3, 2020 to GUVI Geek Network Private Ltd, IITM Research Park , Tharamani along with staff coordinators Ms.Ancy S and Mr.S. Neelakandan. The visit included sessions on the start-up ecosystem and the incubation cell. Students learnt the importance of ideation, creativity for leadership skills, the usage of Augmented reality and Virtual Reality and usage of the GUVI portal.



JIT UTSAV

IEEE SB and other profession societies has organized JIT UTSAV event on Jan 10, 2020. It is open to students from class 9th to 12th. Since its inception in 2011, Jeppiaar Institute of Technology strives to provide technical education in futuristic technologies with the perspective of innovative industrial and social application or the betterment of humanity. JIT UTSAV 2K20 is one such vehicle moving towards our vision. Mr. Chndrakanth, CEO, I Cube Robotics have judged the student projects and students were felicitated with Prizes and Certificates.



Entrepreneur Talk

IEEE SB and JIT Entrepreneurship Development Cell had organised an event “Entrepreneur Talk” in January 10, 2020. Interested students and aspiring entrepreneurs, from various departments had participated, accounting to about 120+ students. The event's speaker was “Mr. Gunasekaran” an entrepreneurial mentor leading various business ventures.



National Level Project Expo Gandiva 3.0

IEEE Student Branch and Department of ECE organized a "National Level Student Project Competition - GANDIVA-3.0" on Jan 22nd, 2020. 29 teams from various colleges have participated and showcased their innovative ideas. This event provided an excellent opportunity for the students to explore, enhance and exhibit their skills, knowledge and talent.



Steps For Incubation – Alumni Talk

IEEE SB and JIT Entrepreneurship Development Cell had organised an event "Steps For Incubation" on 05.02.2020 (Wednesday). Interested students and aspiring entrepreneurs, from various departments had participated, accounting to about 120+ students. The event's speaker was "Vignesh D"- CEO, Revoh Innovations Pvt. Ltd., IITM RTBI Incubated company, Chennai, Tamil Nadu. He is one of the best IEEE Alumni student of 2013-17 batch.



ONLINE SERIES-1- Spectrum QUIZ

JIT IEEE SB conducted Online Quiz series-1 during January 9th to 13th January. The google form link was circulated to the students through circular and their college Mail. The Online Quiz was based on the topic of recent IEEE SPECTRUM issued on November 2019 and December 2019. The main aim of the event is to motivate the students to read the IEEE Spectrum and involve in projects. The response was recorded by the event organiser. We received 65 responses.

ONLINE SERIES-2- Blog Contest

JIT IEEE SB conducted Online Quiz series- 15-02-2020(Saturday) to 21-02-2020 (Friday). The google form link was circulated to the students through circular and their college Mail. The main aim of the event is to motivate the students to read the IEEE Spectrum and write blog in related contents. The response was recorded by the event organiser. We received 22 responses.

KUZALI2.0 – International Women’s Day

IEEE SB - WIE Affinity group and other professional Societies Organised Kuzhali 20 -International Women's Day was organized on the theme "Each For Equal" on Jan 30 & 31st 2020. Women who have excelled in various disciplines were felicitated at this gala event. We had more than 2000+ participants from various schools and colleges across the city. We had organised quite a mixed bag of events inline with the theme EachforEqual. The overall college winner was awarded a scooter Scooty and the school winner was awarded a bicycle. Overall this was an amazing event at a large scale. A great feeling to have a woman centric event. Definitely a must have for most institutions and organisations.



WIE- School Event – SHE 2020

JIT IEEE Women In Engineering Affinity Group conducted Awareness Program on Science- Health- Education (SHE 2020) on 24-02-2020 to the students of St. Vincent De Paul School, Molachur. Students got motivated in recent technologies and science development and some projects were demonstrated to them. There were nearly 250 students. Health and Hygiene topic was explained by Kayathri S, Sowmiya S and Hemalatha K and the activities were conducted. Motivational videos were also put on in order to motivate the students. Goodies were also given to the students who won in the activities conducted. Special prizes were given to the active students. The session ended with a motivational talk given by Ms. S. Priya, the co-ordinator of IEEE.



Guest lecture on "Safety Engineering"

JIT IEEE Robotics and Automation Society & Mechanical Department organised Technical Guest lecture titled "Safety Engineering" on 04.2.20. Mr. A.Shanmuganathan, Manager Safety, Rane Madras Limited gave a wonderful talk on safety Engineering to the IEEE Students and Mechanical III Year Students. The guest was felicitated by Mr. Arun, Head of the department Mechanical and arranged by IEEE RAS Coordinator Mr. Mugularasan.



IEEE COLLABRATEC Talk

The JIT IEEE SB organised IEEE collabratec talk for all IEEE members. The talk was given by the Mr.R.Ragul Kannan.R, Secretary of JIT IEEE SB. The Event was Started with welcome note by Mr.P.Vignesh, Chairman of IEEE SB. Followed by Mr.R.Ragul Kannan.R, Secretary of JIT IEEE SB Explained in detail about the IEEE and Benefits of IEEE Collabratec. Through this event all the IEEE members got to know more about the Collabratec in IEEE. The Event was held on 18.02.2020. Finally, the event ended with the students questions.



Student Leadership Forum (SLF'20)

The JIT IEEE SB conducted STUDENT LEADERSHIP FORUM (SLF'20) at JIT, Chennai on 14th February 2020. The event started with the Registration at the JIT Auditorium. After the process of Registration congress started with the Inaugural Function and the Welcome Address by Mrs.M. Benisha, Counsellor of the JIT IEEE SB and the about the event will be explained by Mr.P. Vignesh, Chairman of JIT IEEE SB. The First Speaker Ms.Betty Vefelin Raj give the "What's possible with IEEE Student Membership. After the Networking Tea Break Mr. Ashvanth B take a session about the "Qualities of a leader". Followingly session of the "Career planning from a zoomed out lens" taken by Mr. Dinesh B R, followed by the Ice Breaking session Conducted by JIT IEEE SLF Volunteers.



After that session was taken over by Mr. Sivakumar Thiyagarajan about "Skills and competencies required for a successful professional career" followed by the session about "How to be an effective leader in Industrial world?" was handled by Ms. Suganya Raman followed by Networking lunch at Engineers Café. After the lunch a Session was taken over by a Mr.Abdul Halik.M.I with the topic of Initiatives and Opportunities with IEEE YP. Followed by a topic of "IEEE Student Branch Annual Planning" will be explained by Mr.Arun. Then the last session was handled by Mr. John Benedict about "Student Awards, Competitions & Student resources in IEEE". Finally the event ended up with valedictory Ceremony for those people has attended in this Forum with Certificate and the JIT IEEE SB has been honour those people who has the event leads with Shield and the valedictory ceremony will be end with group photo session.

IOT Workshop

Jeppiaar Institute of Technology, IEEE Computer Society & Organised Technical work shop on "Internet of Things" on 12-03-2020. Mr. Vishnu Prasath, IOT trained student, II Information Technology gave a wonderful talk on Internet of things to the IEEE Students The event was coordinated by Mr. A V Praveen Kumar. Totally 30 studnets have benefitted by the event.



Report by: Ragul Kannan R, IEEE SB Secretary, Membership Number: 94569963, sasirk2000@gmail.com

K. Ramakrishnan College of Technology, Samayapuram, Tiruchirappalli

“Presentation day “

To know the newer concepts in the field of Electronics and Communication Engineering and also to develop the communication skill, we organised presentation day for our second year students in association with IEEE student branch on 11.01.2020. Second year students shared the recent developments in the field of ECE among the student in the presence of faculty in-charges Ms. Praveena, Ms. Vanmathi and Dr.A. Kavitha, IEEE student branch counsellor. All the second-year students have participated and benefitted.



Seminar On recent developments in ECE

To know the newer concepts in the field of ECE and also to develop the communication skill, we organised seminar for our third-year students in association with IEEE student branch on 07.02.2020. Third year students shared the recent developments in the field of ECE among the student in the presence of faculty in-charges Mr.P.Mani, Ms.C.Bhuvanewari Mr. Pranit Jeba Samuvel and Dr.A.Kavitha, IEEE student branch counsellor. All the third year students have participated and benefitted.



Invited Lecture on “Recent Research Issues in Design of RF Components”

Department of ECE of K.Ramakrishnan College of Technology, Samayapuram, Trichy, organized a invited lecture on 29.02.2020 in the title “Recent Research Issues in Design of RF Components” by inviting Dr.Ramya Vijay, Assistant Professor from SASTRA University, Tanjore . This programme is organized in association with IEEE APS chapter(STB10084). Third year students have participated and benefitted. The event is coordinated by Mr.S. Syedakbar, IEEE APS In-charge and Mrs.R. Indumathi, AP/ECE.



Awareness program on Entrepreneurship Development

Department of ECE of K.Ramakrishnan College of Technology, Samayapuram, Trichy, organized awareness program on Entrepreneurship Development on 03.03.2020 by inviting Mr.T.Jayanathan, CEO TESLA Minds, Chennai, as a resource person in association with IEEE APS chapter. Resource person motivated the students to develop entrepreneur skills. Around 50 students participated and benefitted out of this programme. The event is coordinated by Mr.S. Syedakbar, IEEE APS In-charge and Ms.S. Geerthana and Mrs.S. Gayathri, Assistant Professor/ECE.



Report by: Dr.A. KAVITHA, IEEE Branch Counsellor, Membership No. 90559344, Susmi_sri@yahoo.com

K.Ramakrishnan College of Engineering, Tiruchirappalli

VALUE ADDED COURSE ON LABVIEW

IEEE Student Branch and EEE department has organized three days value added course on LABView for third year students and IEEE members during 2nd to 4th January 2020. The resource person for the value-added course was Ms. Prithiya, CEO, Galwin Technology, Trichy. Nearly 120 students benefitted through this programme. All the students had hands on experience in LABView. The event was organized by Mr. A Prabhu and Mr. G. Gabriel Santhosh kumar, Assistant Professor, Department of EEE.



TWO DAYS VALUE ADDED COURSE ON PCB DESIGN

IEEE Student Branch and EEE department has organized two days value added course on PCB Design for second year students and IEEE members during 9th and 10th January 2020. The resource person for the value-added course was Mr. Avudaiyappan, Manager, PanTech Solutions, Chennai. Nearly 70 students benefitted through this programme. All the students had hands on experience. The event was organized by Mr.U. Ramani and Mr.V. Ashok Kumar, Assistant Professor, Department of EEE.



THREE DAYS ENTREPRENEURSHIP AWARENES CAMP

IEEE Student Branch and ECE department has organized National level three days entrepreneurship awareness camp during 8th to 10th January 2020. Mrs. Aishwaraya Srinivasan, Managing Director, SAA Technologies, Tiruchirappalli was the chief guest. He delivered his experience on how to become a top entrepreneur in a short period of time and the struggles to be overcome to become a successful person in life. Nearly 75 students of various department benefitted through this awareness programme. The event was organized by Dr. M. Maheswari, Professor, department of ECE.



Expert Series Talk on Entrepreneurship

IEEE Student Branch and ECE department has organized Expert series talk on entrepreneurship and its importance during 22nd to 24th February 2020. Principal Dr. D. Srinivasan welcomed the gathering and Mr. R. Shanmugam, Joint Secretary, TIDITSSIA, Proprietor, M/s Gayathri Manufacturing Company, Trichy was the chief guest who delivered the importance of becoming an entrepreneur. Nearly 75 students of external and internal participants of various department benefitted through this expert series talk. The event was organized by Dr. K. Priyadharshini, Professor, dept. of ECE.



IEEE Sponsored National Level Technical Symposium 'KRYPTO-20'

IEEE Student Branch and the Department of Electrical and Electronics Engineering of K. Ramakrishnan College of Engineering, Samayapuram, Trichy organized IEEE sponsored National level technical symposium "KRYPTO-20" on 24th January 2020. The ceremony commenced with lightning of lamp by the dignitaries. The welcome address was given by Dr. K. Dhayalini, Professor & Head, Department of EEE. The technical symposium was sponsored by IEEE Madras section and was inaugurated by the guest of honour Dr. P. A. Manoharan, Chairman, IEEE Madras section. He delivered the inaugural address and presented a seminar on the topic "Robotics and Automation".

Dr. D. Srinivasan, Principal, K. Ramakrishnan College of Engineering presided over the function and addressed the gathering regarding the importance of participating in technical events. There are various technical and non-technical events such as paper presentation, Quiz, connexions, treasure hunt, short film and live photography was conducted. Around 150 students from various Engineering colleges actively participated in various events and won prizes worth Rs.10,000. The symposium was coordinated by Mr. A. Subramaniya Siva, Mr. R. Gopalakrishnan and Mr. T.M Navin Kumar, Assistant Professors, Department of EEE. The function was well organised by Dr. K. Dhayalini, SBC, Professor & Head, Department of EEE.



IEEE Student Branch Inauguration for the Year 2020

The activities of the IEEE student branch of K. Ramakrishnan College of Engineering for the year 2020 was inaugurated on 25th January 2020 with 152 student members and 10 professional members. The inaugural ceremony commenced with the lighting of the lamp by the dignitaries. The KRCE- IEEE student branch was inaugurated by the chief guest Dr. D. Devaraj, ExeCom member, chair, SAC, IEEE madras section, Dean, Department of EEE, Kalasalingam University. He inaugurated the student branch for the year 2020 and delivered the inaugural address. In his address he briefed the importance of IEEE membership and various opportunities in IEEE and delivered a seminar talk on the title “Machine learning algorithm for smart grid data analytics”. Dr. K. Dhayalini, Professor, Department of EEE and IEEE student branch counselor welcomed the gathering of faculty and student members. Dr. D. Srinivasan, Principal presided over the function and addressed the gathering regarding the importance of professional society membership. Office bearers and executive committee members of IEEE student branch for the year 2019 were introduced by Mrs S. A. Priyadarshini, Assistant Professor, department of EEE and IEEE WIE affinity group Advisor. The student branch chairman Mr. R. Sibiraj proposed the vote of thanks. The entire programme was organized by Student branch counsellor Dr. K. Dhayalini and Student branch advisor Mr. R. Gopalakrishnan, Assistant Professor, Department of EEE.



Three Days Entrepreneurship Awareness Camp

IEEE Student Branch and ECE department has organized National level three days entrepreneurship awareness camp during 27th – 29th January 2020. Mr. S. Gopalakrishnan, secretary, TIDITSSIA, Proprietor, M/s. CLC Info Tech, Trichy was the chief guest. He delivered his experience on how to become a top entrepreneur in a short period of time and the struggles to be overcome to become a successful person in life. Nearly 75 students of various department benefitted through this awareness programme. The event was organized by Dr. C. Jeyalakshmi, Associate Professor, department of ECE.



“Two Days Hands On Workshop On “IoT Using Raspberry Pi”

IEEE Student Branch and CSE department organized two days hands on workshop PyDroid 2020 on “IoT using Raspberry Pi” during 22nd and 23rd January 2020. Around 40 students participated in the event. The event was organized by Mrs. T. M. Nithya, Assistant professor and head, department of CSE.



“LEAD 2020 - Induction Program on Computer Training”

IEEE Student Branch and CSE department organized Lead 2020, Induction program on computer training during 9th and 10th January 202. Around 50 school students participated in the event and benefitted by attaining training in computer operation. The event was organized by Mrs. T. M. Nithya, Assistant professor, department of ECE.



“Two Days National Workshop On Tribology Of Green Composites (TGC2020)”

IEI student chapter and IEEE Student Branch and Mechanical department organized two days national level workshop on tribology of green composites (TGS2020) held on 31st January and 1st February 2020. Dr. N. Kumaresan, Professor, Department of EEE, National Institute of Technology, Trichy was the chief guest for the function. The event was organized by Dr. Anand Chairman, Professor, department of Mechanical Engineering.



“Clean India Mission”

IEEE Student Branch and Swachhata Bharath clean India mission organized social campaign on cleanliness in the nearby village of Samayapuram, Tiruchirappalli. The event was coordinated by Mrs. Thamaraiselvi, Assistant Professor, department of chemistry.



Workshop On Embedded Systems

IEEE Student Branch and ECE department has organized one day workshop on Embedded Systems on 7th February 2020, Nearly 120 students of various colleges participated in the event and benefitted. IEEE and non-IEEE students also participated in the workshop.



National Level Technical Symposium Named ECentra'2020

IEEE Student Branch and ECE department has organized national level technical symposium named ECentra'202 on 8th February 2020. Around 175 students from in and around Tamilnadu participated in the technical and non-technical events organized in the symposium. The winners were rewarded with certificates and cash prizes. The event was organized by Dr. M. Maheswari, HOD, ECE department.



Three Days Entrepreneurship Awareness Camp

IEEE Student Branch and EEE department has organized National level three days entrepreneurship awareness camp during 10th to 12th February 2020. Mr.R. Ilango, President, TIDITSSIA, Trichy was the chief guest. He delivered his experience on how to become a top entrepreneur in a short period of time and the struggles to be overcome to become a successful person in life. Nearly 75 students of various department benefitted through this awareness programme. The event was organized by Dr. K. Dhayalini, Professor & Head, department of EEE.



Novel Corona Virus Awareness

IEEE Student Branch and social club has organized awareness for corona virus on 10th February 2020 for students and staff of all department. Students got awareness about the novel disease.



Entrepreneurship Training

IEEE Student Branch has organized entrepreneurship training on 12th February 2020 for students of all department. Students got training regarding the need to become an entrepreneur. Nearly 75 students of various department benefitted through this training programme. The event was organized by Mr. T. Ramesh, Assistant Professor.



Training on Non-Destructive testing

IEEE Student Branch has organized hands on training on non-destructive testing on 13th February 2020 for students of all department. Students got training regarding NDT. The chief guest was Mr. T.V. Subash, Senior Manager (Rtd), BHEL, Trichy. Nearly 110 students of various department benefitted through this training programme. The event was organized by Mr. T. Ramesh, Assistant Professor.



Two Days Seminar on Fundamentals and Advancements In Automobiles

IEEE Student Branch has organized two days seminar on fundamentals and advancements in automobiles on 14th February 2020 for students of all department. The chief guest was Mr. v. Suresh Babu, Engineer, Daimler India commercial vehicles Pvt. Ltd, Chennai. Nearly 170 students of various department benefitted through this seminar. The event was organized by Mr. T. Ramesh, Assistant Professor.



Inter College Paper Presentation

IEEE Student Branch has organized inter college paper presentation for budding engineers on 24th February 2020. The chief guest was Dr. D. Srinivasan, Principal, K. Ramakrishnan College of Engineering. Nearly 80 students from all department participated and presented their papers in the paper presentation contest.



Intra College Paper Presentation

IEEE Student Branch has organized intra college paper presentation for budding engineers on 26th February 2020. The chief guest was Dr. P. Mani, Department of Physics Anna University, BIT Campus, Trichy. Nearly 105 students participated and presented their papers in the paper presentation contest.



Field Trip

IEEE Student Branch and social awareness club jointly organized field trip to birds sanctuary on 28th February 2020. Nearly 30 students of both IEEE members and non IEEE members participated and utilized the field trip.



Report by: Dr. K. Dhayalini, SMIEEE, Student branch counselor

K.S.Rangasamy College of Technology,Tiruchengode.

FDP ON “Statistics for Data Analytics”

One day workshop on MATLAB organized by department of ECE along with IEEE student chapter was held on 23 January, 2020 at Main building seminar hall, KSRTC. Around 25 second year ECE students, faculties from various departments and research scholars participated in the workshop. Mr.P.Vikram Kumar, MATLAB trainer demonstrated the matrix operations, Eigen value and vector calculation, forming differential equations in MATLAB. He also discussed the basic filters, addition of various noises and removal of noise using corresponding filters. He helped the students in conversion of audio to digital data and digital data to audio with AUDACITY software developed by him..



One day FDP - R statistical tool.

One day FDP organized by department of ECE along with IEEE student chapter is held on 03 January, 2020 at Main building seminar hall, KSRTC. Dr.K.B.Jayanthi, Head of department of ECE welcomed the gathering. Dr.R.Gopalakrishnan, Principal, K.S.Rangasamy College of Technology delivered the principal address. Around 25 faculties from AICTE accredited colleges participated in the FDP. Data Analytics has become an essential part of everyday life and merged as a critical component of modern business intelligence in recent years.



Data has real value and every information extracted from it can make or break businesses. Analytics is the intersection of business and data science, offering new opportunities for a competitive advantage. It unlocks the predictive potential of data analysis to improve health care, strategic management, and operational efficiency. Data scientists have a number of options to analyze data using statistical methods. One of the most convenient and powerful methods is to use the R Programming language. Dr.C.Ponnuraja, Scientist ‘E’, Department of Statistics, ICMR shared his knowledge in context to statistical analytics with clinical trials and survival analysis accompanied by demo on R statistical tool.

Report by: Dr.C.Rajasekaran,Professor/ ECE, IEEE Membership No.92134320

Kings College of Engineering

Seminar on “Soft Skills”

A Seminar on “Soft Skills” was organized by IEEE STB 16621 and R&D Section on 24th January, 2020. Mr. J. Rajaparthiban, AP/Mech and DRC Member welcomed the gathering. Mr. PP. Shantharaman, Associate Professor/Mech and DRC Convenor presided over the function. Mr. T. Pasupathi, AP/ECE, introduced the resource person to the gathering. Mr. R. Ramachandran, Former Professor, Irrigation Management Training Institute, Trichy was the resource persons. In his lecture, he briefed the students on the techniques and ways to improve their soft skills to excel in career. 148 students participated and got benefitted.

Report by: Dr. J. ArputhaVijayaSelvi,vijayas_02@yahoo.co.in



One day workshop on “advanced control techniques in industrial engineering”

Department of EEE and IEEE SB organized one day workshop on “Advanced Control Techniques in Industrial Engineering” on 21.02.2020. Session-I was handled by Dr.S.Sivakumar on “Introduction about Energy Scenario & Advanced Control Techniques in Industry”. In his presentation he pointed out that the importance of energy consumption of nations. He presented lots of statistics regarding energy scenario and compared the various energy sources consumption by various nations from 1950’s to till date. He mentioned the importance of renewable energy sources and about the advanced control techniques used by industries.



Session-II was handled by Mr.R.Sundaramoorthi on “Introduction about Controllers”. In his session, he covered about the Introduction of controllers, Importance of controllers, Types of controllers, Methodology and design, Types of conventional controllers and Programmable Logic Controllers (PLC). He pointed out the lot of real time examples of Automatic over tank filling & Vehicle Acceleration. The session was very interactive and informative. Session –III (Laboratory) was handled by Mr.J.Arokiaraj. In his session he demonstrated the working operation of solar panel with converter and DSP based PMBLDC motor speed control techniques.

Details of Solar Plant Details:

Total Capacity : 1kWp; Panel : 4; Each unit: 260Wp;

Details of Charge Controller:

Input Voltage : (12 – 48) V – Variable; Output Voltage : (0 – 48) V– Constant; Output Current : (0-10) A

Details of Converter:

Input Voltage : 24 V – DC; Output Voltage : 220 V – AC (Sinusoidal PWM); Capacity : 3000 VA

Session-IV (Laboratory) was handled by Dr.M.Meenalochani on “Introduction of Simulating Software & Design of renewable Energy Systems using Soft Computing tools”. In her session she covered the following topics: Introduction of soft computing Comparison Hard & Soft computing Soft Computing tools Methodology and design by using soft computing tools A total of 32 (External: 28, Internal: 04) students attended the programme.

Report by: Mr. R. Sundaramoorthi, Membership No. 93086892

National Conference on Emerging Trends in Computing, Control and Communication Technology (ETCCCT'20)

National Conference on Emerging Trends in Computing, Control and Communication Technology (ETCCCT'20) was organized on 13 th March, 2020. Dr. Arun.K.Majumdar, Adjunct Professor, Colorado State University, USA was the chief guest. Dr.J.Arputha Vijaya Selvi, Principal & General Chair, Kings College of Engineering delivered the welcome address and briefed on the usage of IOT for knowledge sharing. Also she briefed on the innovations of 5G networks which enabled transfer of information without any disruptions. Dr.R.Rajendran, Secretary, Kings College of Engineering delivered the presidential address. He conveyed the current scenario of Engineering Colleges and students education. He has registered his strong views about the scope of the conference.



From left: Dr. S. Sivakumar, Vice Principal, Dr. R. Rajendran, Secretary, Dr. Arun K. Majumdar, Adjunct Professor, Colorado State University, USA, Dr. J. Arputha Vijaya Selvi, Principal & General Chair along with HODs of CSE, ECE & EEE during the release of the Conference Proceedings.

He expressed that this National conference will be a platform for Researchers, academicians and students to discuss about recent trends, challenges and advancements related to engineering fields, which will create an opportunity to focus on specific areas from their own perspective and experiences in this field. The Chief Guest released the conference proceedings to the gathering and it was received by dignitaries. Dr.A.Albert Martin Ruban, organizing secretary introduced the Chief Guest. Dr. Arun.K.Majumdar delivered the inaugural address and explained the importance of conference. He explained about the recent trends, growth, future scope, ongoing projects and research in the field of Engineering. In addition, he delivered keynote address on the Fundamentals of Free Space Optical Communication. Also, he educated the students with the advances in Free Space Optical Communication and its applications. Dr. Arun.K.Majumdar had a discussion with the students of all branches on the career opportunities for engineering students in India and abroad. The students posed questions which were answered by the speaker. The students were inspired by his knowledge sharing which provided them awareness on the abundant opportunities. Technical sessions were arranged separately for the three branches in their respective departments. Participants from various Engineering colleges exhibited their views, thoughts and research in the scope of the conference. Over 120 technical papers were received from industrialists, UG, PG students and faculty members from various Engineering Institutions.

In the valedictory function, Dr.S.M.Uma, Programme Chair presented the summary of the conference. Delegates from various institutions have registered their valuable feedback. Certificates were distributed to the participants by the Chief Guest. Prof. N.Mangayarkarasi, Convener, delivered the vote of thanks. Finally, the programme ended with National anthem.

Electrical awareness program

On 03-03-2020 Electrical awareness program was conducted by department of EEE and IEEE student branch at Government Middle School, Meikudipatti, Gandarvakottai tk. Prof Mr. S. R. Karthikeyan, Assistant professor/ EEE, a lecture in electrical safety awareness and energy savings in day to day life. A printout material of electrical safety and energy savings were gave to the students. Students asked many doubts regarding electrical and it was cleared by the our staff and the students. Feed back of the program was collected at the end of the program.

Report by: [Dr. J. ArputhaVijayaSelvi](#),
Membership No.90234387; vijayas_02@yahoo.co.in



Local Visit

Department of ECE and IEEE student branch organized a visit to BSNL, Trichy on 05 th March, 2020. A total of 85 students accompanied by three staff members visited. The main aim of this visit was to provide an exposure to students about practical working environment. Moreover, it gives practical exposure rather than theoretical lectures.

During their visit, students were explained about the transmission, modulation, multiplexing of voice signals and also about broadband communication techniques.



Workshop report

Department of ECE and IEEE student branch organized a Oneday workshop on higher education and role of engineers in future India on 06 th March, 2020 for the polytechnic students. A total of 47 students from various polytechnic colleges were participated. In the forenoon session one of the resource person Dr.A.Senthilkumar, Project scientist,IIT Chennai, focus on various higher studies available for polytechnic students. Afternoon session Mr.K.Amirtha Ganesh, Director, Armada Industrial Automation, delivered lecture on Role of engineers in future India.

Report by: [P. Raja Pirian](#), Assistant Professor



Guest Lecture on "Wireless Communications"

A Guest Lecture on Wireless Communications was organized by IEEE STB 16621 and Department of ECE on 15th February, 2020. Mr. T. Pasupathi, Assistant Professor/ECE welcomed and introduced the resource person to the gathering. Mr. Abhishek Kumar, Junior Research Fellow/ECE, National Institute of Technology - Karnataka, Surathkal was the resource person. In his lecture, he briefed on 5G mobile technology key features, which includes the modulation schemes, bandwidth, datarate and implementation strategies. Also he briefed on the applications of next generation network i.e. Free Space Optical Communication with case studies. A total of 50 students participated and got benefitted.

Report by: [Mr. T. Pasupathi](#), Membership No. 93393158



Workshop on “Machine Learning using Python”

A workshop on Machine Learning using Python was organized by IEEE STB and Department of ECE on 14th February, 2020. Mr. P. Raja Pirian, AP /ECE welcomed the gathering. Mrs. N. Mangaiyarkarasi, HOD/ECE presided over the function and delivered presidential address. Mrs. P. Thirumagal, AP/ECE, introduced the resource person to the gathering. Mr. Karthi Renganathan, Business Head, IFANDFOR Endeavours, Chennai delivered inaugural address. In his inaugural address, he motivated the students to involve themselves in IoT Domain and carry out their project work in the area of Machine Learning for their career development. During the session, Mr. Karthi, briefed on the basics of Machine Learning and introduction to python. Also he illustrated Linear Regression, Trees and forests can be used for statistical analysis in ML. During the hands-on-session, he demonstrated the applications, such as clustering concept, Neural network in a detailed manner. A total of 77 students (including participants from other institutions) participated.



Report by: Mr. P. Raja Pirian, Membership No.94349595

Workshop on “Graphic Designing and Animation – 2D & 3D”

A one day workshop on “Graphic Designing and Animation – 2D & 3D” was jointly organized on 15.02.2020 by Department CSE and IEEE SB for the students with an objective to offer a better understanding of animation and also to empower their creativeness. Mr.G.Vaitheeswaran, Graphic Designer and 3D Modeler, Olir Designs and Mr.Royal Ricard, Graphic Designer and Director, Olir Designs were the resource persons of the workshop.



The workshop was coordinated by Ms.R.Sugantha Lakshmi AP/CSE and Mrs.G.Chandra Praba AP/CSE. The workshop highlighted on the basics of graphics and animation software’s through hands-on experience with the industry standard.

Report by: Ms.K.Abhirami, Membership No. 96021784

K.L.N. College of Engineering

Bridge course

We organised bridge course for [IYear/II Sem (2019-2023 Batch) –EEE Students on 10.01.2020 & 11.01.2020. 15 studnets attended the event.



Competency Development Programme

We organised Competency Development Programme for [III Year/VI Sem (A&B) (2017-2021 Batch) – EEE Students on 10.01.2020 & 11.01.2020 by Resource Person: Mr.Meyappan, M/s.Top Freshers, Chennai. 81 studnets attended the event.



“Two days Vedic Maths,Critical thinking, aptitude, logical reasoning”

We organised “Two days Vedic Maths,Critical thinking, aptitude, logical reasoning” for [I Year/II Sem (2019-2023 Batch) – EEE Students on 10.01.2020 & 11.01.2020 by Resource Person: Mr.R.Muralidharan, M/S Connect, Tirunelveli. 37 studnets attended the event.



"Renewable Energy, Conservation of Electrical Energy & Safety"

We organised "Renewable Energy, Conservation of Electrical Energy & Safety" for School Students , Government High School , Samantham on 30.01.2020 & 11.01.2020 by Resource Person: Er. S. Ramamoorthy, Sales Manager, C & S Electric Ltd, LV Components Division, Madurai. 64 studnets attended the event.



Knowledge Institute of Technology

Technical Quiz on Basic Electronics

The IEEE-SB KIOT organized the Technical Quiz on Basic Electronics held on 13.01.2020 with the IEEE student members of KIOT. The event was organized by Mr.R.Raghavendar, IEEE Executive member. He organized the IEEE student members of KIOT and conducted a technical quiz based on the basic electronics topics. Students attended the quiz and explored much in the basic electronic concepts and made use of it very efficiently and clarified their doubts.



Technical Discussion on How Technology Influence People

The IEEE-SB KIOT organized the Technical Discussion on How Technology Influence People held on 17.01.2020 with the IEEE student members of KIOT. The event was organized by Mr.D.Anudeepak, Chairman IEEE-SB KIOT. He interacted with the students about the how the technology is evolving in our daily life without we actually knowing it. Then he shared that we cannot control the growth of the technology and no one can restrict the usage of technologies. Finally, he shared that the technology is not multiplying but it has the growth exponentially. This session was very interactive and the students got clarified their doubts.



Spectrum Analysis on The Ingenuity of Spies

The IEEE-SB KIOT organized the Spectrum Analysis on The Ingenuity of Spies held on 16.01.2020 with the IEEE student members of KIOT. The event was organized by Mrs.Mohit Rakesh Taparia, IEEE Executive member, KIOT. He interacted with the students about that bugs play a major role in each technology and the concept of bug hunting is used to rectify those bugs from that corresponding technological growth. Then he shared that the spies got arrested during the cold war of 1970s. Finally he shared about that the networking betrayed the spies and they got arrested and this results in the emerging technology of networking. In this session we motivated them to analyze the basic concepts of the networking and their enhancements in the technical society. This session was very interactive and the students got clarified their doubts.



Discussion on The Virtual Storage

The IEEE-SB KIOT organized the Technical Discussion on How Technology Influence People held on 22.01.2020 with the IEEE student members of KIOT. The event was organized by Mr.A.Neavil Porus, IEEE Executive Member, KIOT. He interacted with the students about how the data (information in terms of audio file, video file, text files etc.) can be virtually stored and accessed with the help of cloud. Then he shared that the location and the manager of the cloud is unknown still there is a service level agreement between the user and the service provider to set things go in a right way. Finally, he shared that the future is moving towards cloud.



Spectrum Analysis on Machine Learning on the Edge

The IEEE-SB KIOT organized the Spectrum Analysis on Machine Learning on the Edge held on 10.01.2020 with the IEEE student members of KIOT. The event was organized by Mrs.S.Haripriya, IEEE Executive member, KIOT. She interacted with the students about that the group of researchers from Google, Qualcomm and Microsoft are gathered to discuss to take the machine learning to the farthest edge of the network. Then she shared that scientists are trying to use machine learning in the tiniest microprocessors. Finally she shared about the current advancements in this technology. The ultimate aim for this is to update the current technology for our students. In this session we motivated them to analyze the basic concepts of the Machine Learning and their enhancements in the technical society.



Seminar on Emerging Technologies for Healthcare and Medical Diagnosis

The IEEE-SB KIOT organized IEEE MAS sponsored National Level seminar on Emerging Technologies for Healthcare and Medical Diagnosis on 11.01.2020 for both internal and external participants. The first session was handled by the resource person Dr.N.Santhiyakumari, IEEE SB Counselor, Professor & Head/ECE, Knowledge Institute of Technology, Salem. She has explained the objectives of a healthcare unit to provide complete support to the people. She also described about the importance of technologies in the field of healthcare. The second session was delivered by Dr.M.Thangavel, Professor/ECE, KIOT titled Medical Diagnostic devices used in hospitals. The students also interacted with resource persons and cleared their doubts on various topics which are relevant with Healthcare monitoring devices.



Report by: Dr.N.Santhiyakumari, IEEE-SB Counselor

Kongu Engineering College

SHUKIRTI 2K'19 - DRONE COMPETITION AND SHOW

Drone is an unmanned Aerial vehicle (UAV) serve a variety of purposes, such as recreational, photography, commercial and military, their two basic functions are flight and navigation. To achieve flight, drones consist of a power source, such as battery or fuel, rotors, propellers and a frame. The frame of a drone is typically made of lightweight, composite materials, to reduce weight and increase maneuverability during flight. Drones require a controller, which is used remotely by an

operator to launch, navigate and land it. Controllers communicate with the drone using radio waves, including wi-fi.

Date of Event: 25 Dec 2019

Speaker details: Dr.N.Nithyavathy and Mr.C.Naveen Mechatronics Engineering, Kongu Engineering College.

Time of competition for external school students: 10.30 am to 11.00 am; 11.30 am to 12.00 pm; 02.00 pm to 02.30 pm; 03.00 pm to 03.30 pm - 4 slots

Target audience: 11 School student (each team 4/5 members) teams participated in the drone competition and host college students participated in Drone show

Attendance: IEEE members - 10 Nos., Others 50



Report by: Dr. Nithyavathy N., Associate Professor, IEEE SB 29741 Branch Counselor

Guest lecture on IEEE membership and its benefits:

The session handled by Dr.D.Devaraj was more informative and interactive. The lecture gave a brief knowledge on IEEE membership and importance of it and its benefits for a student member. Also the recent trend in SOLAR based technologies made the students gain an idea over it for further project developments. At the end of the lecture, students understood the importance of both so that they would make use of the valid information given in order to shine in their career and lives.

Report By: Bhuvanesh. N. Chairman, IEEE-PES

Circuit Designing

The workshop handled by M.Ranjith kumar on 08-02-2020 was more informative and interactive. The students gained knowledge regarding electronic design software and it will pave way for them to get placement in core companies. The workshop will also help the students to execute their final year project and also enable them in various design project competitions. Total No. of Participants: 35

Report by: Logeshwaran.D



M.Kumarasamy College of Engineering,

Trip Trap- Creative thinking Event

The IEEE SB and WIE OB organized a creative based and social media event on Jan 12, 2020 for the students and bringing the best among them. The event make the students more creative and create an interest towards the innovative ideas and also bring the student's best talents towards the photography. This event makes sense to the students that other talents are also important among the competitive world and make a great sense to the students. The response for the student is very high and may create a idea about the photography of 2020.

Trip Trap- Creative thinking Event

The IEEE SB and WIE OB organized a creative based and social media event on Jan 17, 2020 for the students and bringing the best among them during pongal holidays. The event make the students more creative and create an interest towards the innovative ideas and also bring the student's best talents towards the photography based on the pongal celebrations. The response for the student is very high and may create a idea about the photography of 2020 Pongal.

Awareness creation

The IEEE SB and WIE OB organized a creative based school event on Jan 17, 2020 for the students and bringing the best among the school students. The event make the students more creative and create an interest towards the innovative ideas and also bring the student’s best talents and create an awareness about the engineering career. This event makes sense to the students that other talents are also important among the competitive world and make a great sense to the students about engineering. The response for the student is very high and may create a idea about the engineering and explained some projects done by the IEEE students.



Report by: Bharani Dharan P. Chairman, Membership No : 94742556

Mahendra Engineering College

Seminar on “Applications of Artificial Intelligent and Machine Learning in Image Processing”

The main aim of this Seminar gives the fundamentals of Artificial Intelligence and Machine Learning. He described the topics of introduction to Machine Learning, Challenges in Machine Learning, , Machine Learning algorithm, Overview of Deep learning and applications of Deep learning via image acquisition tools. Students gain the knowledge about Machine Learning and Deep Learning algorithms in Image processing. He concluded the presentation with the applications of Artificial Intelligent and Machine Learning in Image Processing.



Guest lecturer on “Recent Techniques in signal Processing”

The main aim of this lecturer is to covers the fundamentals of signals and images. He described the steps involved in image processing such as importing the image via image acquisition tools; Analyzing and manipulating the image; Output in which result can be altered based on analysis of that image. He concluded the presentation with the applications of signal processing such as audio signal processing, audio compression, digital image processing, video compression, speech processing, speech recognition, digital communications, digital synthesizers, radar, sonar, financial signal processing, seismology and biomedicine.



Report by :Dr.R.Vijayakumar, IEEE SB Counselor, ASP/ECE, rvijay.nethra@gmail.com

Hands on Training on Analog Electronics

IEEE Students' Branch and the Department of ECE of Mahendra Engineering College organized one day Hands on Training on Analog Electronics on September 25th, 2019. The Head of the Department Dr.N.Viswanathan welcomed the gathering and Dr.R.V.Mahendra Gowda, Principal preside over the function. The scope of this workshop is to explore the circuit designing in engineering. The resource person explained how to Simulate Electronic Circuit using Proteus Software and also Printed Circuit Board (PCB). The Proteus Design Suite is a proprietary software tool suite used for Electronic Design Automation. The participants had excellent learning experience. Forty participants (second year ECE) actively participated and was benefited from this workshop. The programme was well organised by K. Giri, AP/ECE.



Engineering as Social Experimentation

IEEE Students' Branch and the Department of ECE of Mahendra Engineering College organized one day seminar on "Engineering as Social Experimentation" on August 1st, 2019. The Head of the Department Dr.N.Viswanathan welcomed the gathering and Dr.R.V.Mahendra Gowda, Principal preside over the function. The scope of this seminar is to explore the professional ethics in engineering. The resource person explained about the topics like attitude is everything and what makes your life 100%.



Human values, Morality, Work ethic, Service-Learning, Characteristics of Service-Learning, Courage, Self confidence, Computer Ethics new version. Engineer's responsibility for safety and importance of professional ethics with real time examples. Engineering as social experimentation, codes of ethics and also a balanced outlook on law with practical examples. The participants had excellent learning experience. One hundred participants (third year ECE) actively participated and was benefited from this seminar. The programme was well organised by Dr. D.Chitra, Prof/ECE.

Guest Lecture on "Life Skills for Career Development"

IEEE Students' Branch and the Department of ECE of Mahendra Engineering College organized guest lecture on "Life Skills for Career Development" on July 17th, 2019. The Head of the Department Dr.N.Viswanathan welcomed the gathering and Dr.R.V.Mahendra Gowda, Principal preside over the function. The scope of this Guest Lecture is to explore the basics and to give an introduction in Life Skills. He challenged the conventional dominance of English in the corporate by taking examples of countries such as Japan that are doing as good as any English speaking country even though they are using their native language. He thereafter took the students on a journey of the early days of his career. He talked about his initial days in Engineering and how he gradually worked his way up the career ladder to become the Director of ONE LIFE - ONE CHANCE Skill Developing Academy. He shared the challenges that he faced and the lessons that he learned.



Guest Lecture on “Modern High Power Broadcast Stations”

Inaugural function of this Seminar was held on 25 th June, 2019 in ECE Seminar Hall at 9.30 a.m. Shri.M.G.Bharath Kumar, Chairman, Mahendra Educational Trust has presided over the function. Dr.R.Samson Ravindran, Executive Director, Mahendra Engineering Colleges presided over the function and also gave an introductory note and overview of the Special Lecture. The scope of this seminar is to explore the basics and to give an introduction in Modern High Power Broadcast Stations. Shri.Harkesh Gupta, discussed on major components in Modern High Power Broadcast Stations and its studio set-up.



Small studios are generally in a single storeyed building whereas large studios may be in multi-storeyed buildings, with special structural isolation. He explained about three modes of transmission in radio broadcasting. He also explained about High Power FM Transmitter Installations, High Power Medium Wave Transmitter Stations and Super Power Short Wave Transmitting Station. Further he gave details about Future of Radio Broadcasting as Digital Radio - Digital Radio Mondiale (DRM). Dr.S.Ponlatha Associate Professor /ECE gave Vote of Thanks.

Recent Trends In Antenna Engineering

IEEE SB in association with Department of ECE organized guest lecture on “Recent Trends In Antenna Engineering” on February 18th, 2019. The Head of the Department Dr.N.Viswanathan welcomed the gathering and Dr.R.V.Mahendra Gowda, Principal presented the introductory note of the function. This workshop provides a brief introduction about the Electromagnetic Radiation and Antenna Fundamentals. The resource person explained the basics of Wire Antennas, Aperture Antennas and Antenna Arrays. He gave clear idea about the Microstrip patch Antennas- Design parameters for the beginners. He gave an exposure to Radiation Pattern of a Cell Tower Antenna. He explained about propagation in a mobile environment. The participants had excellent learning experience. Eighty participants actively participated and benefited.



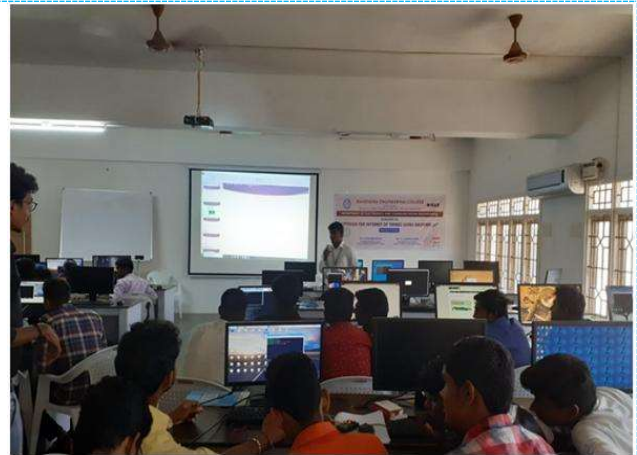
Hardware Project Design Contest titled “IEEE Collegiate Circuits Design Contest (C2DC)-2020”

One day Hardware Project Design Contest titled “IEEE Collegiate Circuits Design Contest C2DC-2020” was conducted by the Department of Electronics and Communication Engineering of Mahendra Engineering College (Autonomous), Namakkal in association with IEEE Student Branch and IEEE Product Safety Engineering Society, Madras Chapter. Inaugural function of this Hardware Project Design Contest was held on 28th February 2020 in ECE Seminar Hall at 10.00 a.m. Dr.S.Vijayakumar, Vice-Chair, IEEE PSES, Madras Chapter, the adjudicators of this hardware Design Contest. Shri.M.G.Bharth Kumar, Chairman, Mahendra Educational Trust, presided over the function. Dr. N.Viswanathan, Head of the Department felicitated the function. Dr.R.V.Mahendra Gowda, Principal gave a presidential address and overview of the Hardware Design Contest C2DC-2020. Third year student Ms.Priyadharshini welcomed the gathering and finally Ms.S.K.Deepthisri, second year proposed the vote of thanks for this contest. This hardware project design contest Co-ordinated by Dr.R.Vijayakumar & Dr.K.Manivel ASP/ECE.



Two days workshop on “Python for Internet of Things Using Raspberry Pi”

The scope of this workshop is covers the basics of IoT smart devices, IoT communication models, python programming and Raspberry pi with projects. Raspberry Pi development comes in many flavors, but Python is common and powerful. In this workshop, students learnt how to work with this highly readable language along with a Raspberry Pi board to build a secure ecosystem of interconnected IoT devices. He shared the challenges that he faced and the lessons that he learned. He explained how to work with the highly readable language along with a Raspberry Pi board to build a secure ecosystem of interconnected IoT devices.



Report by: Dr.R.Vijayakumar, IEEE SB Counselor, ASP/ECE, rvijay.nethra@gmail.com

Mepco Schlenk Engineering College

CODE VENATIC

One of the most awaited events of the GYAN MITRA “Code Venatic” was held on 25th of January 2020. Enthusiastic participants from various colleges across Tamilnadu attended the event. It was a two rounds event. The students were given introduction about the event. The rules were explained by our office bearers. The first round was written test which includes questions from various programming languages. After completing first round, their sheets were evaluated and 3 teams were selected for the second round. The second round was based on coding in an environment. They were asked to create their own algorithm to represent the colour in rubix cube. The participants from various colleges coded keenly. Winners were given with prizes and certificates during the valedictory ceremony conducted at MEPCO convention centre. The event was organized by Sriram and Arun Balaji of III year. The event was headed by our branch counsellor Mr.C.Kalyana Sundaram M.E. Assistant Professor, ECE.

A BID IN THE HAND

The event A BID IN THE HAND was conducted on 25th January 2020 by our students branch office bearers on the day of GYAN MITRA. Enthusiastic participants from various colleges across Tamilnadu attended the event. The objective of this event is to explore general technical stuffs in an excited way through an auction game which was no less than a real IPL auction. The event had great impact on the technical knowledge of the participants as well as the sense of timing and tactics of the students in handling the bids in the game. The event was organized by Arun Balaji and Sriram of III year and Vignesh of II year.

Around 20 teams from different colleges participated in the event. Their performance were continuously monitored and validated by our office bearers. They were provided with 30 minutes to clear the preliminary round. After completing prelims, their sheets were evaluated and 6 teams were selected to play the game of bids.

The participants enthusiastically started to bid as soon as the organizer announced the first player along with his rating and initial amount. After bid, they answered the questions interestingly. The points were split into three, based on the rating 5, 10 and 20. Star players bear the highest points of 25. The event was expeditiously handled by the office bearers which was a grand success. Winners were given with prizes and certificates during the valedictory ceremony conducted at MEPCO convention centre. The event was headed by our branch counsellor Mr.C.Kalyana Sundaram M.E. Assistant Professor, ECE.

Report by: A.Arun Balaji (IEEE STB-29861), Membership Number: 96116140

Nandha Engineering College

Awareness Campaigns on Electric Vehicle and its Benefits for Society.

IEEE SB and Department of EEE jointly organized a program titled on “Awareness Campaigns on Electric Vehicle and its Benefits for Society” on 11.02.2020. Dr.N.Rengarajan, Principal, delivered a keynote address about Electric Vehicles. Dr.S.Arumugam, IEEE SB Counsellor, motivated the students to focus and learn the emerging area Electric Vehicle Technologies. Dr.A.Satheesh, IEEE SB organizer about addressed the Electric Vehicles. Mr.P.Krishna Gandhi, IEEE SB Coordinator, introduced chief guest Mr.P.Prasanthkumar, Government of India Certified Trainer (ARAI and MSME).



Mr.P.Prasanthkumar, shared his own experiences to the students and explained about the need for Electric Vehicle Transition in India. He gave an overview on motor and battery technologies for EV’s and HEV’s. Also, showed the video demonstration about electric vehicle safety and charging station technology. Students showed more interested to ask the interactive questions and clarified with respective doubts.

Report by: Krishna Gandhi P, IEEE SB Coordinator and krishnecee@gmail.com

National Engineering College, K.R. Nagar, Kovilpatti

“National level workshop on Machine Learning using Python”

As a part of our regular activity of IEEE Computer Society Student Branch Chapter of our college, we have conducted a IEEE Madras Section Sponsored “Two Day National Level Workshop on Machine Learning Using Python” during 31.01.2020 & 01.02.2020. 115 students from various Colleges all over the country participated. The aim of this workshop was to create awareness about the Machine Learning and how to perform a task using Python. The resource persons Ms.S.Kalaiselvi AP (SG)/CSE and Mr. H.Muthu Mariappan, Research Scholar, NEC delivered the ML concepts along with hands on practice using python.



Ms.J.Thillai Supraja, III Year CSE addressed the welcome of the gathering. Ms.Ajitha, III Year CSE declared the vote of thanks. Under the guidance of our Branch Chapter Advisor Dr V.Gomathi, this function was arranged by the staff coordinators of IEEE CS SBC Ms.M.Jayalakshmi and Ms.I.Muthu Selvi. This workshop was technically sponsored by IEEE ITS Madras Chapter.

Report by: Dr.V.Gomathi, Branch Chapter Advisor

National Institute of Technology, Tiruchirappalli

Inauguration of IEEE Student Branch Activities for the year 2020

The IEEE Student Branch activities of National Institute of Technology – Tiruchirappalli was inaugurated on January 29, 2020. Dr. Arumugam Nallanathan, IEEE Fellow, IEEE Fellow, Professor, Queen Mary University of London, UK was the chief guest for the inauguration function. Dr. M. P. Selvan, IEEE SB counsellor introduced the new office bearers for 2020. Mr. M. Ananda Reddy, Chairman, IEEE SB of NIT-T for 2020 outlined the activity plan for 2020. The event was attended by professors, research scholars and post-graduate students from the departments of ECE, EEE, ICE and CSE.



Distinguished Lecture

The IEEE Student Branch of National Institute of Technology – Tiruchirappalli organized a distinguished lecture on “Learning based Dynamic Optimization in Massive IoT Networks” on January 29, 2020. Dr. Arumugam Nallanathan, IEEE Fellow, IEEE Fellow, Professor, Queen Mary University of London, UK delivered the distinguished lecture. Dr. Arumugam defined the problems in burst traffic in crowded IoT networks and then continued to elaborate the solutions obtained using machine learning/Artificial intelligence for solving the problem. Dr. Arumugam also interacted with the research scholars who are working in the field of communication systems and machine learning. The distinguished lecture helped researchers identify a research problem in the field of communications and artificial intelligence.



Awareness Program on Power and Energy for School Students

The EEE association on NIT Tiruchirappalli in association with the IEEE Student Branch conducted an event on 04.02.2020 for the students of REC Middle School, Thuvakudi for creating awareness on Power and Energy as a part of technical symposium “CURRENTS 20”. Dr. P. Raja, Associate Professor/EEE, NITT addressed the students at the EEE Auditorium, NIT Trichy.



In an half a day session, school students were trained by volunteers from EEE association and IEEE SB. They were given presentation on working principles of several electrical appliances used in day to day life. The house wiring from service mains to the load was shown to them through demonstration kits made by the EEE students of NITT. The working principle of transformer was explained to them through experimentation. The importance of wind energy and solar energy was described to the participants. Demonstration was also given on principle and technology of e-bike.

Distinguished Lecture by Dr. M. Sabarimalai Manikandan

The IEEE Student Branch of National Institute of Technology – Tiruchirappalli organized a distinguished lecture on “Signal Processing Techniques for IoT Enabled Wide-Area Smart Grid Monitoring System” on February 14, 2020. Dr. M. Sabarimalai Manikandan, Assistant Professor, School of Electrical Sciences, IIT Bhubaneswar spoke on the topic. Dr. Manikandan explained the problems faced by smart grids and introduced methodologies for providing solutions.



Dr. Manikandan elaborated on the possibility of using signal processing techniques for monitoring the smart grids and also introduced his own algorithm for doing the same. With IoT finding applications in vast areas of engineering, Dr. Manikandan presented another interesting application of IoT combined with signal processing for making life easier. The event was attended by UG, PG and PhD scholars from EEE and ECE departments of NIT – Tiruchirappalli. Dr. Manikandan concluded his presentation by encouraging the PG students to take up research work after their degree course.

Training on “Role of IoT in Smart Grid” for NLC Executives

Department of EEE and Department of Management Studies, NIT Tiruchirappalli in association with IEEE Student Branch of organized a training programme for NLC executives on 19.02.2020 in the topic “Role of IoT in Smart Grid”. Dr. M.P. Selvan, Counselor, IEEE SB NIT Tiruchirappalli handled a session on “Applications of IoT in Smart Grid” where he briefed about the basics of IoT and smart grid and described about the applications to the participants. Dr. S. Moorthi, Assoc. Prof., EEE Dept., NIT Trichy gave a talk on “Embedded Controllers for Power Applications”. Demonstrations of real-time applications such as ‘Environmental Quality Monitoring using IoT’, ‘Home Energy Management System’, ‘Smart Metering’, ‘Smart Street Lighting’, ‘Fault detection in transmission lines’ were also given by the research scholars of Hybrid Electrical Systems Lab to the participants.



Technical Talk by Dr. Dushantha Nalin K. Jayakody, Russia

The IEEE Student Branch of NIT – Tiruchirappalli organized a technical talk on “Research Article Writing : Scientific Artist!” on 27.02.2020. The lecture was delivered by Dr. Dushantha Nalin K. Jayakody, IEEE Senior Member, Associate Professor, Director, Infocomm Lab, School of Computer Science and Robotics, National Research Tomsk Polytechnic University, Russia. Dr. Dushantha Nalin briefed about the art of reading and writing the paper. The event was attended by Research Scholars, Post-Graduate students and faculty members from the various departments of NIT – Tiruchirappalli. Dr. Dushantha Nalin discussed about the basic thumb rules to be remembered while writing a paper.



He has divided the technical paper into parts and gave examples for each section. Dr. Dushantha Nalin advised the participants to include their idea in terms of visual representation for better understanding for the readers. He also gave examples for the common mistakes any technical writer does and the ways to correct it. Dr. Dushantha Nalin has encouraged the young researchers to write the best quality technical papers and mentioned that the process which in turn is the scientific art.

PSG College of Technology, Coimbatore

Tech Talk held on 10th February

The IEEE – EMBS student chapter of PSG College of Technology, Coimbatore conducted the seventh edition of ‘Tech Talk’ event on 10.02.2020. Pre- final year Biomedical Engineering student, Mr. K. Gaoutham, presented a technical talk on ‘Medical Exoskeleton’ based on an article from IEEE Spectrum magazine. The participants included IEEE student members of II and III year B. E. Biomedical Engineering of PSG College of Technology. The participants learnt about the basics of Exoskeleton and its application in rehabilitation purposes.



Report by: Dr. B. Banu Rekha, Membership No: 93844096

PSNA college of Engg. & Tech

Report on Line Follower Event

The power and energy society of IEEE PSNA CET, in association with the department of EEE organized a technical event called black on track on February 11 th 2020. This event involved a track consisting 1cm thickness and 5cm in length. A robot operated by wire or wireless should successfully steer along the dedicated track, which includes curves, perpendicular turns, U-turns. This event enhances the innovative ideas in the field of robotics. Around 16 teams participated in the event to showcase their expertise. Dr.S.K.Nandha kumar, professor of EEE organized this event.



Report on Technical Quiz

A Technical quiz event on basic subjects was organized by power electronics society of IEEE PSNA CET with the department of EEE on 03.02.2020 . Mr.D.Arun prasad Assistant professor of EEE department conducted the event and motivated the students in which 10 teams participated in the event.



Report on Paper presentation

A paper presentation event on upcoming topics was organized by Control system society of IEEE PSNA CET with the department of EEE on 18.02.2020 . Dr.R.Karthigavel professor of EEE department conducted the event and motivated the students. Around 16 teams participated in the event to present their papers.



Report by: Dr.S.Muthukumar,IEEE SB Counselor, Membership No: 9213 7923

Rajalakshmi Engineering College

Two Days Hands-On Training on “Computer Networks For Human Networking Using Cisco Packet Tracer and Ns-2”

Speaker details : Mr. S. Prabhu, CCNA Instructor, CISCO Networking Academy, Chennai & Ms. R. Bharathy, Assistant Professor (SS), Department of ECE, Dr. M. Palanivelan, Professor & Head has welcomed the gathering and introduced the guest Mr. S. Prabhu, CCNA Instructor, CISCO Networking Academy, Chennai. The guest delivered a hands-on session using “Cisco Packet Tracer”.He has enlightened the participants on need and benefits of Network and Security. The main objective of this training, to make the aspiring engineers to provide much deeper insights into the most exciting technology of networking platform.



Further, this programme will ensure our students to explore their creativity in configuring the networks and obtain knowledge in ethical hacking and networking areas. Hands-on training on ARP, Ethernet, TCP, UDP, DHCP and DNS are explained using Cisco Packet Tracer and node creation, UDP and TCP data traffic in wired as well as wireless environment are created using NS-2. Finally, Dr. S. N. Murugesan, Principal distributed certificates to the participants and vote of thanks has been delivered.

Report of National Level Technical Symposium Coulomb 2020

Speaker details: Dr.Thangam Meganathan, Chairperson, REC & Mr.M.Abhay Shankar, Vice Chairman. EEE department in association with IEEE Madras Section and Institution’s Innovation Council had successfully conducted the One day National level Tech Fest – COULOMB 2020 on 01.02.2020. During the day, the participants were given opportunities to choose among various events to show case their talents. The various Technical and Non – Technical events were conducted. Students from 30 plus institutions and also presence of 350 students were noticed in the symposium. During paper presentation session 15 papers were presented by the participants.



Two Days Faculty Development Program on “Analog IC Design Using CADENCE design flow”

Dr. M. Palanivelan, Professor & Head has welcomed the gathering and introduced the guest Mr.J.Navin Sankar, Field Application Engineer, Entuple Technologies, Bengaluru. The guest delivered a hands-on session using “CADENCE”. He has enlightened the participants on design and analysis of Analog circuits using cadence. This Program is designed to provide deeper insights in Analog Circuit Design, layout concepts. The program provides the industry ways of working environment for participants. It progressively builds the concepts with a kick start on functional blocks, such as current mirrors, repeaters, operational amplifiers. At the end of the program, Participants were able to analyse the performance specification requirements and identify the suitable circuit topologies, Finally, Dr. S. N. Murugesan, Principal distributed certificates to the participants and vote of thanks has been delivered.



Report by: Dr.M.Palanivelan, Membership No. : 90916224

R.M.K. ENGINEERING COLLEGE

Industrial visit

IEEE SB & ECE Dept. organized one day industrial visit for the second year ‘A’ Section students on 7.2.2020. The students visited KAASHIV INFOTECH, Sivananda Building, 5th Floor, X-41, 2nd Ave, Anna Nagar, Chennai, and Tamil Nadu 600040. Total number of 43 students along with 3 faculty members started at 09.30 A.M from the college and reached the industry at 11 AM. Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge about recent trends in the IT Industry



Industrial visit

IEEE SB & ECE Dept. organized one day industrial visit for the second year students on 10.2.2020. The students visited PRASAD STUDIOS, 28, Arunachalam Rd, Saligramam, Chennai, Tamil Nadu 600093. Total number of 42 students along with 3 faculty members started at 09.45 A.M from the college and reached the industry at 11 AM. The purpose of this industrial visit is to explore the technology behind the media and the practical knowledge about the telecommunication.



Industrial visit

IEEE SB & ECE Dept. organized one day industrial visit for the second year 'B' Section students on 13.2.2020. The students visited KAASHIV INFOTECH, Sivananda Building, 5th Floor, X-41, 2nd Ave, Anna Nagar, Chennai, and Tamil Nadu 600040. Total number of 43 students along with 3 faculty members started at 09.50 A.M from the college and reached the industry at 11.10 AM. Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge about recent trends in the IT industry.



Industrial visit

IEEE SB & ECE Dept. organized one day industrial visit for the third year 'C' Section students on 19.2.2020. The students visited Sansbound Solutions, No 40, Ganapathy Complex Circular Road United India Colony, Kodambakkam, Chennai - 600024, Tamil Nadu. Total number of 62 students along with 5 faculty members started at 10.00A.M from the college and reached the industry at 11.15 AM. Our main objective for this visit is to be familiar with industrial environment and to get practical knowledge about recent trends in the IT industry and IoT.



Industrial visit

IEEE SB & ECE Dept. organized one day industrial visit for the third year 'B' Section students on 21.2.2020. The students visited Sansbound Solutions, No 40, Ganapathy Complex Circular Road United India Colony, Kodambakkam, Chennai - 600024, Tamil Nadu. Total number of 62 students along with 5 faculty members started at 10.00A.M from the college and reached the industry at 11.15 AM. Our main objective for this visit is to be familiar with industrial environment and to get practical knowledge about recent trends in the IT industry and IoT.



Industrial visit

IEEE SB & ECE Dept. organized one day industrial visit for the third year 'A' Section students on 21.2.2020. The students visited Sansbound Solutions, No 40, Ganapathy Complex Circular Road United India Colony, Kodambakkam, Chennai - 600024, Tamil Nadu. Total number of 62 students along with 5 faculty members started at 10.00A.M from the college and reached the industry at 11.15 AM. Our main objective for this visit is to be familiar with industrial environment and to get practical knowledge about recent trends in the IT industry and IoT.



Special Guest Lecture on Electromagnetic Fields

IEEE SB conducted a special guest lecture on Electromagnetic Fields. The lecture was delivered by Mr.M.Jayanandhan, Founder, TESLA MINDS, and Chennai. The lecture was intended to address the second year students and to encourage, motivate the students towards EMF basics. Mr.M.Jayanandhan spoke about his experiences as a researcher and the changes that has taken place since his completion up till now. Mr.M.Jayanandhan's talk enriched the minds of the students as he made sure that the students understood the simplicity and intricacies of the Electromagnetic Fields. The lecture was attended by over 40 students.



Report by: Mr.Darwin Nesakumar A, IEEE SB Coordinator, adn.ece@rmkec.ac.in

RVS Technical Campus, Coimbatore

Report on International Conference on “Inventive Computation Technologies (ICICT-2020)”

The Department of CSE and IEEE SB of RVS Technical Campus organized three days “International Conference on Inventive Computation Technologies (ICICT-2020)” on 26.2.2020 to 28.2.2020 for UG, PG students, Research Scholars and Faculty members. Keynote speakers are Prof. Dr. Subarna Shakya, Professor, Department of ECE, Pulchowk Campus, Institute of Engineering, Tribhuvan University, Nepal, Dr. D. Nirmal, IEEE ExeCom Member, Madras Section and IEEE ED past Chair, Associate Professor, Karunya University, Coimbatore, Tamil Nadu, India and Dr. G. Thirugnanam, Professor, Department of ECE, Government College of Technology, Coimbatore, India. A total of more than 150 participants attend this conference, exchanged information between the researchers and benefited.



Report by: Dr.S.Smays, smys375@gmail.com

SASTRA Deemed University

IEEE Membership Awareness Program

IEEE SASTRA SB conducted a membership orientation program on 31st January 2020. Around 70 students from various branches were attended the meeting. Response from first year students was good. The meeting started with an introduction to IEEE in general and followed by the benefits of IEEE membership. In addition, the office bearers explained the importance of volunteering activity like IEEE SIGHT electrification of villages and importance of team work and networking activity. The meeting was organized by IEEE SB student chairman Mr. M. Praveen and all office bearers contributed to the meeting. The meeting was concluded with discussions and clarifications.



Saveetha Engineering College

Two Day National Conclave on “Industrial Iot, Renewable Energy and Machine Learning”

DAY 1: The two-day National Conclave on Industrial Iot, Renewable Energy And Machine Learning was held on 21, 22 February 2020. The Inauguration of the conclave commenced with the invocation. Dr.Srigitha S Nath, Professor & Head, ECE department, welcomed the dignitaries and the participants to the event. Dr. R.Ramesh, Principal, and Dr. R. Senthil Kumar, Vice Principal, Saveetha Engineering College offered felicitations. The function was inaugurated by Dr. R. Sarathi, Professor in department of EE, IIT-M & Chair PES IEEE Madras Chapter. Dr.M.Moorthi, HOD, Medical Electronics(ECE), shared the vote of thanks.



Guest lecture on importance of High voltage engineering was given by Dr. R. Sarathi. Er.S.Rameshkumar, Director & CEO, Averzs Technologies, gave us a lecture on Introduction and application of Raspberry Pi & Machine learning followed by a lab session on the same was conducted by Er.Rajasekar, Project Manager, Embedded Systems, Averzs Technologies.

DAY 2: Er.Fawaz Hussain, CEO,Daystar Solar,Chennai gave a lecture on the needs of Renewable Energy for smart factories and its significance in the practical world. After which Dr.M.Ramalatha, Professor KCT & R10 WIE Coordinator, gave a lecture on Challenges and Issues of Women in Science & Technology in the Rural Area. The valedictory address was given by Dr.M.Ramalatha. The certificates were distributed in the valedictory ceremony.

Report by: Dr.M.Moorthi M.E.,Ph.D,SMIEEE, IEEE Society/SB Advisor, moorthi@saveetha.ac.in

Sri Eshwar College of Engineering

Report –“SHOOTER POMP” (25th JAN 2020)

IEEE Student Branch and Embedded systems and IOT club of SECE organized “Project Expo” on 25th January 2020. 40 students from different streams actively participated in the event. IEEE student Branch counselor Mr.E.Venugopal AP-ECE welcomed the gathering; Dr.N.Shanmugasundaram HOD-ECE gave the Inaugural address, Session 1 – “pitching” handled by Mr.Batcha AP-EEE & Mr.Venkatesan AP-CSE, Session 2 “Prototype demonstration”. The Event ended with the Prize distribution.



Report –“ RTL CODING AND FPGA DESIGN WORKSHOP” (14th FEB 2020)

IEEE Student Branch and Department of Electronics and Communication of SECE organized “RTL CODING AND FPGA DESIGN WORKSHOP” on 14th February 2020. 26 students from different engineering colleges around Tamil Nadu participated in the workshop. IEEE student Branch counselor Mr.E.Venugopal AP-ECE welcomed the gathering; Dr.N.Shanmugasundaram HOD-ECE gave the Inaugural address, Session 1 – “Introduction to VLSI Design, ASIC and FPGA Design” handled by Dr.S.Dhanasekar AP-ECE, Session 2 “RTL coding and Test bench generation” handled by Mr.T.Thamaraimanalan AP-ECE, Session 3 “Hands on FPGA Implementation using Spartan 3” handled by Mr.M.Mohankumar AP-ECE and Mr.V.Mathiazhagan AP-ECE. The Workshop ended with the Valedictory and certificate distribution.



Sri Sairam Engineering College

IEEE AWARENESS PROGRAMME(11.02.2020)

IEEE computer society took an initiative to conduct an awareness program regarding the benefits of IEEE membership. The program was conducted at SSR hall in our college on 11.02.2020. All the first year students were made to assemble at the hall. The awareness program was directed towards informing the first year students about a clear introduction of IEEE, in order to aware them about the importance of IEEE. Dr.Soma Prathibha, Associate Professor & IEEE CS-SBC Advisor presented the overview of IEEE and the opportunities available for student community. Mr.Leo Ram Siddarth Student Chair of IEEE CS-SBC, Sri Sai Ram Engineering gave talk on importance and various benefits that are available in IEEE.



Also he gave information about various societies and their utilities were described. All the members of IEEE shared their experience and their working journey with IEEE family. It was a great step taken by our department in making the students get into professional societies.

Report by: Cherukuru Venkata Nishkala

Sri Sivasubramaniya Nadar College of Engineering

Role of Technology in presenting NEWS.

SSN IEEE WIE had invited Mr. Karki Bava, Journalist from Vikatan to present a talk on the “Role of Technology in presenting NEWS”. This event gave awareness to the students on the application to technology that they learn in presenting the news to layman in an unbiased and interesting means. The speaker elaborated the taxonomy of technology’s presence in the field of journalism and the present day demand of engineers in it. The event had an active participation of approximately 20 students from different departments.



ZERO – let the stories unfold

ZERO: LET THE STORIES UNFOLD is a storytelling event curated by the IEEE student branch, SSN College of Engineering. ZERO’s mission is to spread revolutionary ideas through the ancient, universal art of storytelling to the youth of our society. The event was split into three sessions - each session based on a sub-theme. The storytellers who performed during a session spoke on topics that correlated with the theme. The event started out with ORIGIN as the theme, moved on to BALANCE and then concluded with SURGE.



The following are the speaker details and their keynote:

- Mr.Anil Srinivasan, Pianist - Aadhara Shruthi, Ms.Lani Zena Fernandez - Professional Motorcycle Racer
- Mr.Dayanidhi Maran - Founder, Life Trust NGO , Salem, Mr.Sharan Kuttapa – Magician
- Ms.Chitra Devi - PRO, Training Centre For The Adult Deaf & Sign Language Interpreter
- Ms.Bharaa Mayura - Acquisition Manager, Unlimited Movies
- Mr.Purushu Arie - Fashion Designer, Ms.Uma Vangal - Film Professor & Critic, Mr.CK Kumaravel - CEO Naturals

Art of Work Life Balance

SSN IEEE WIE had invited Ms. Thilaga, Senior Manager, CTS to present a talk on the “Art of Work Life Balance”. The speaker gave a very interesting talk quoting her personal experiences in achieving the balance between her work and personal commitments. The talk also presented amusing stats on the presence of women in the early IT career and the diminishing percentage in the suite levels. She presented significant solutions to maintain the balance derived from real-life experiences. 23 students participated the event.



Basics of Labview

A workshop on the basics of Labview was conducted by the student body of IEEE-EMBS for the students of the Department of Biomedical Engineering. It was a one day workshop having the resource person from HCL Technologies who are as well the proud alumni of the Department of Biomedical Engineering. Students were taught about the basic programs of threshold detector and traffic lights for making them strong with respect to the base of the software followed by the basics of signal processing using ECG simulator. A total of 23 students participated in this event. Student’s feedback was that, it was very useful to get to know about the software and its basic syntax as well as the structure.



HEALTHWARE 1.0 - a two day Hackathon

Two day hackathon conducted by the student body of IEEE-EMBS The two rounds of Healthware 1.0 are as follows:

ROUND 1: The teams have to choose a Problem Statement, which can be from the given list of ten Problem Statements or be of their own choice under the domain of Healthcare. The teams have to submit a PPT elaborating the solution that they propose

ROUND 2: Teams that get through Round 1 participate in the two-day hackathon, where they have to create a prototype of the final product and present it to the judging panel.



Date: 14th-15th February 2020. On the first day of the hackathon, 7 teams appeared from various colleges; SRM, KCG, AGNI and SSN of several departments. We had Mr. Lokesh from Nexgen Technologies as mentor for the teams. They were motivated for their efforts and they were given inputs by Mr. Lokesh for enhancing their ideas.

We requested for collaboration from Healthcare Technology and Innovation Center, IIT Madras Research Park for pre-incubation to the winning teams. They extended their support by sending Mr. Kiruthi Vasan, Chief Research Engineer as the judge for deciding upon the best ideas and taking them further for the pre-incubation process at HTIC.

By the end of hackathon, we had two teams selected; THUNDERBOLTZ from the Mechanical Department of SSN selected as the winner for the problem statement "Measurement of blood flow for heart lung machine" and CHIPMUNKS from the ECE Department of KCG selected as the runner up for the problem statement "Health app for a region".

Cash prize of Rs. 3000 was awarded to the winning team THUNDERBOLTZ and Rs. 1500 was awarded to the runner up team CHIPMUNKS.

Opportunities in City Corp

The IEEE Communications Society Student branch organized a talk on the topic "Opportunities in City Corp" on 18th January, 2020. Pranamika B, City Corp Employee and alumni of SSN was the speaker. The presentation helped pre-final students to get an idea on preparations and the skill sets required by the aspiring students expecting a career in City Corp.



Hack & Tackle 2.0 A 24-Hour Hackathon

Hack & Tackle 2.0 A 24-Hour Hackathon was held at SSN College of Engineering, Chennai during 20-21 February, 2019. The event was organized by department of Information Technology, SSNCE in association with SSN IEEE Student Branch and IEEE Computer Society Student Chapter, and Ajirasoft. The registration for Phase I of this event began on 22 December, 2019. Nearly 259 teams from 48 different colleges registered in Phase 1. The proposals submitted by these teams underwent blind review process and almost 43 teams were shortlisted for Phase II. These teams were allowed to choose challenging problems in the following sectors namely Environment, Health Care, Agriculture, Social Welfare and Women Safety. A total of 28 teams consisting of 112 students from various disciplines participated in Hack & Tackle 2.0.

Hack & Tackle 2.0 was inaugurated by Dr. T. Nagarajan, Professor & Head, IT, SSNCE. The sessions of Hack & Tackle 2.0 were engaged by 25 Jury members from various industries namely Mr. Cooper, Freshworks, Sirius, HCL, CTS, Temenos, Renault Nissan CML Media Software Pvt. Ltd., who trained the teams providing valuable suggestions for improvement and evaluated team's performance. The following are the details of the Jury members:

Mr. Sharath Kumar R, Engineer, Renault Nissan, Mr. Melwin Thomas, Head of Quality, CML Media Software Pvt. Ltd

Mr. Thilakar, Senior Manager, CTS, Mr. Abijeeth Darwin, Manager, CTS

Mr. Nagarajan, Manager, CTS, Mr. Anandkumar Karthikeyan, QA Lead, Mr. Cooper

Mr. Riyaz Ahamed S, Software Engineer II, Mr. Cooper, Mr. Jegan R, Software Engineer II, Mr. Cooper

Mr. Madhusoodhanan P, General Manager, HCL, Mr. Venkatachalam Meyyappan, Software Engineer II, Mr. Cooper

Mr. Aneerudh P, Software Engineer II, Mr. Cooper, Mr. Aasif Hussain D, Software Engineer II, Mr. Cooper

Ms. Manisha S, Software Engineer, Mr. Cooper, Ms. Subhadra N S, Software Engineer, Mr. Cooper

Ms. Lalithalakshmi R, Software Engineer, Temenos, Mr. Nijin Vinodan, Lead Consultant, Sirius

Mr. Chandrasekar Gokulanathan, Senior Consultant, Mr. Dhanush Thirunavukkarasu, Software Engineer, GDS

Mr. Balaji Kannan, Lead product designer, Freshworks, Mr. Vignesh Jayavel, Lead product developer, Freshworks

Mr. Saravanan Annamalai, Software Engineer II, Mr. Cooper, Mr. Karthik N, Software Engineer II, Mr. Cooper

Mr. Shrihari Srinivas, Software Engineer II, Mr. Cooper, Mr. Krishnan Ravichandran, Software Engineer II, Mr. Cooper

Mr. Sathya D, Solution Architect - Technical Manager, HCL

The main platinum sponsor, Ajira Soft supported immensely from time to time in terms of financial assistance, and had spent their time in providing valuable suggestions. Mr. Manikanda Prabhu D, Delivery Head, Ajira Soft was the Chief Guest during the Valedictory function. The following teams won prizes and honours.

First prize: Night Fury: Geo Tracking of Waste - Sri Venkateswara College of Engineering - Rs. 30,000/-

Second prize: Tesseract: Attention Span Detection - Sri Venkateswara College of Engineering - Rs. 20,000/-

Third prize: LIVONIAN: AI enabled HAND WASH monitoring device for hospitals - Bannari Amman Institute of Technology - Rs. 15,000/-

Consolation I - Ghost_Protocol: Intelligent Stick - Valliammai Engineering College - Rs. 2,500/-

Consolation II – Proof of Work: Solving Privacy and Security issues in Electronic Health Record (EHR) using Blockchain - Sri Sairam Institute of Technology - Rs. 2,500/-

Consolation III – Life Savers: Dynamic Scream Alert And Pulse Detection Security System Using Arduino And GSM - Adhiyamaan college of Engineering - Rs. 2,500/-

Consolation IV - VR Makers of Realities: Enhancing learning through extended reality - Sri Sairam Institute of Technology – Rs. 2,500/-

Hack & Tackle 2.0 helped the students to network with professionals and enhance their knowledge in their problem domain. At the end of the event, the participants had gained a holistic view on how large events are organized. 50 volunteers from the IEEE student branch were a part of the event and ensured a well organized implementation of event activities. The organizers of the event were Dr. T. Sree Sharmila, SSN IEEE SB Counselor, Associate Professor, IT, SSNCE, Dr. V. Thanikachalam, Associate Professor, IT, SSNCE and Ms. J. K. Josephine Julina, Assistant Professor, IT, SSNCE.



2020 IEEE Sixth International Conference on Bio Signals, Images and Instrumentation (ICBSII 2020)

The department of Bio-medical Engineering in association with IEEE SB organized 2020 IEEE Sixth International Conference on Bio Signals, Images and Instrumentation (ICBSII 2020) during 27-28 February, 2020 technically sponsored by IEEE Madras Section.

The following are the speakers and their titles:

Session 1 – Dr. Justin Dauwels, Associate Professor, Deputy Director of STE-NTU Corporate Laboratory, School of Electrical and Electronics Engineering, Nanyang Technological University, Singapore. Title: “Mental Health”



Session 2 – Dr. Perungo Thirumarachelvan Surgeon, Asian Bariatrics hospital, Chennai. Title: “A Paradigm Shift in the Medical Field-Evolution of Biomedical Engineering”

Session 3 – Dr. Deepak Joshi, Assistant Professor, Centre for Biomedical Engineering, Indian Institute of Technology (IIT) Delhi. Title: “Forcemyography: A Paradigm Shifts from Electromyogram for Rehabilitation Engineering”.

Session 4 – Dr. G. S. Bhuvaneshwar, FBSE Consultant Medical Devices - design, development, testing & QMS, Trivandrum. Title: “Development of Medical Devices – A Road Map”

Session 5 – Prof. Ing. Eko Supriyanto, Former director of IJN-UTM Cardiovascular Engineering Centre, Universiti Teknologi Malaysia. Title: “Cardiovascular Management in Fourth Industrial Revolution Era”

Session 6 – Dr. Basheer Ahamed Gulam Orthopedic Surgeon, American Mission Hospital, Bahrain. Title: “Clinical Engineering: Evolution of a Discipline”

Conclave "SSN ICON 2020 - Ideate your Career Advancement"

SSN IEEE student branch organized IEEE Students' Conclave "SSN ICON 2020 - Ideate your Career Advancement". Striving for the 2020 vision by stimulating the spark in the youth has been the principal motive behind this event. The following are the speakers and their topics: Mr. Jaikanth Chinnathambi, Founder and CEO, Infinite Engineers - How to follow your passion through business whilst in college? Mr. Poo Ko Saravanan, Indian Revenue Service (Customs & Excise) - Where do services and engineering technology lock heads? Mr. Deepak Ram K G, Fellow at Teach For India - Reimagining Education - A shift from consumption to creation Mr. Karthee Vidya, Founder and CEO, Team Everest - What does life look like after failure?

Joseph Shyam Nathan, Life Coach & Anthropologist - Social Self-Care, Communication and Interpersonal Skills A total of 140 students participated in this event. Mr. Poo Ko Saravanan, Indian Revenue Service (Customs & Excise) - Where do services and engineering technology lock heads? Mr. Deepak Ram K G, Fellow at Teach For India - Reimagining Education - A shift from consumption to creation Mr. Karthee Vidya, Founder and CEO, Team Everest - What does life look like after failure? Joseph Shyam Nathan, Life Coach & Anthropologist - Social Self-Care, Communication and Interpersonal Skills. A total of 140 students participated in this event.



This conclave intended to ideate, choose, create, plan and rebuild the career to attain maximum success happiness through the most fruitful sessions by the speakers. This also provided the participants with excellent opportunities to up their skills with respect to placements, higher studies, entrepreneurship, etc.

Report by: Dr. T. Sree Sharmila, Associate Professor, IEEE Student Branch Counselor, sreesharmilat@ssn.edu.in

SRM Valliammai Engineering College

Guest Lecture on "Recent Trends in Power system Protection"

The Department of EEE and IEEE SRM Valliammai Student branch conducted one day Guest Lecture on the topic of "Recent Trends in Power system Protection" on 23rd January 2020. The session was presented by the resource person Mr.R.Kathiravan, B.E., (Alumni) Testing and Commissioning Engineer (Sr), SPK Power Infra Pvt.Ltd, Poonamalle, Chennai, Students gained sound knowledge in this and will make their focus better towards their practical implementations via projects.



REPORT OF 9th National Level Technical symposium (EMERGE 2K20)

The Department of EEE and IEEE SRM Valliammai Student branch has organized the 9th National Level Technical Symposium (EMERGE 2020) "Emerging Technologies in Electrical and Electronics Engineering" on 14th February 2020. The Inaugural session of the conference began with the invocation followed by the Welcome Address delivered by Mr.B.Mailesh, 4th year, Student Secretary, the chief guest introduction was given by the Student Vice President Ms.M.Aiswarya, 4th year. Memento was given to the respected chief guest by the honorable director followed by the chief guest address.



The souvenir for EMERGE 2020 was given in the hands of Principal which was released by the chief guest, Mr.R.Suryanarayanan, Director of Om Sai Renewable Energy Private Limited in presence of Dr.T.P.Ganesan, Director, VEC & Pro-Vice Chancellor(P&D), SRM Institute of Science and Technology, Dr.B.Chidhambararajan, Principal, SRM Valliammai

Engineering College. Dr.M.Murugan, Vice Principal, SRM Valliammai Engineering College Felicitated the gathering and congratulated the office bearers of the Symposium for making fruitful attempts to organize the symposium for the ninth consecutive year. The session ended with the vote of thanks delivered by Mr.N. Sujith, 3rd year, Treasurer of EMERGE 2K20.

“MODERN SPEED CONTROL TECHNOLOGIES OF ELECTRICAL MOTORS”

The Department of EEE and IEEE SRM Valliammai Student branch conducted one day Seminar on the topic of “MODERN SPEED CONTROL TECHNOLOGIES OF ELECTRICAL MOTORS” on 11th February 2020. The session was presented by the resource person Mr.M.Tamilvannan, M.E (Project Team Lead, ABB Global Industries & Services Pvt. Ltd, Chennai) who conveyed the basic introduction of electrical motors and its importance in industries in an amazing manner, Students gained sound knowledge in this and will make their focus better towards their practical implementations via projects.



Guest Lecture on the topic of “Integrated IOT and MPPT Systems for small hydroelectric generation”

The Department of EEE and IEEE SB conducted one day Guest Lecture on the topic of “Integrated IOT and MPPT Systems for small hydroelectric generation” on 25.02.2020. The session was presented by the resource person S.Subramaniyan(Alumni), Project Engineer (Embedded System), Retech solutions Pvt Ltd Chennai who conveyed concepts of IOT was delivered and he also emphasized on MPPT which is nothing but maximum power point tracking, Students gained sound knowledge in this and will make their focus better towards their practical implementations via projects. The lecture was attended by EEE students of II, III, IV years and faculty members along with Head of the Department Prof. Dr.K.Elango.



Report by: Mr.T.Santhoshkumar , M.E,MISTE., Assistant Professor (Sr.G), Department of EEE

St. Joseph’s College of Engineering

NON-GOVERNMENTAL ORGANIZATION VISIT

The Non-Governmental Organization visit to “Sakthi Aadharavu Illam” at Chennai, is focused on improving and providing an insight to the problems our generations face and to inculcate a habit of helping the poor and the needy in the minds of the students who are the future of our country. This also helped in achieving a better understanding between mankind and focused on improving the people into a better human being.

Conducted Date: 25\01\2020 ,Total no. of Participants : 56



NON-GOVERNMENTAL ORGANIZATION VISIT

The Non-Governmental Organization visit to “Little Folks” at Chennai, is focused on improving and providing an insight to the problems our generations face and to inculcate a habit of helping the poor and the needy in the minds of the students who are the future of our country. This also helped in achieving a better understanding between mankind and focused on improving the people into a better human being.

Conducted Date: 25\01\2020,Total no. of Participants:58



INDUSTRIAL VISIT TO EMU AVADI

The PELS society members of St. Joseph’s student branch chapter were taken for an Industrial Visit to the EMU Avadi on the 30th of January 2020. About 48 members participated in this. They started by 8:00A.M in the morning headed to the station. Reaching there by 10:00A.M, the students were taken to the station and one of the engineers working at the station was our instructor and Guide. They taught about the inception of the station and also how to maintain the parts of engine in train. The first lines in the station were electrified on 29 November 1979, with the electrification of the Chennai Central–Tiruvallur section.



The EMU car shed lines at Avadi were electrified on 1 February 1980. Avadi is one of the railway stations in the Chennai Suburban Railway network that are being developed as Adarsh stations. They inspected each train once in every one and half year, the engine parts of the local train are inspected for normal operation of train. They usually inspect the train which work under DC motor. Then they left the station by 4.00pm. Our students got a great session in the EMU.

INDUSTRIAL VISIT TO EMU AVADI

The IAS society members of St. Joseph’s student branch chapter were taken for an Industrial Visit to the EMU Avadi on the 28th of January 2020. About 52 members participated in this. They started by 8:00A.M in the morning headed to the station. Reaching there by 10:00A.M, the students were taken to the station and one of the engineers working at the station was our instructor and Guide. They taught about the inception of the station and also how to maintain the parts of engine in train. The first lines in the station were electrified on 29 November 1979, with the electrification of the Chennai Central–Tiruvallur section.



The EMU car shed lines at Avadi were electrified on 1 February 1980. Avadi is one of the railway stations in the Chennai Suburban Railway network that are being developed as Adarsh stations. They inspected each train once in every one and half year, the engine parts of the local train are inspected for normal operation of train. They usually inspect the train which work under DC motor. Then they left the station by 4.00pm. Our students got a great session in the EMU.

INDUSTRIAL VISIT TO EMU AVADI

The RAS society members of St. Joseph’s student branch chapter were taken for an Industrial Visit to the EMU Avadi on the 29th of January 2020. About 50 members participated in it. They started by 8:00A.M in the morning headed to the station. Reaching there by 10:00A.M, the students were taken to the station and one of the engineers working at the station was our instructor and Guide. They taught about the inception of the station and also how to maintain the parts of engine in train.



The first lines in the station were electrified on 29 November 1979, with the electrification of the Chennai Central–Tiruvallur section The EMU car shed lines at Avadi were electrified on 1 February 1980. Avadi is one of the railway stations in the Chennai Suburban Railway network that are being developed as Adarsh stations. They inspected each train once in every one and half year, the engine parts of the local train are inspected for normal operation of train. They usually inspect the train which work under DC motor. Then they left the station by 4.00pm. Our students got a great session in the EMU.

DESIGN OF SWITCH MODE POWER SUPPLY (SMPS)

We have great pleasure in informing you that the Department of EEE of St. Joseph's college of Engineering, Chennai has organized a value added course conducted by PELS society on "Design of switch mode power supply" from 23rd January 2020 for two days. About 56 students actively participated in this event. The organization is EMCOG from 10.00 A.M to 3.00 P.M. The whole session was very interactive. The course motivated many students to make their own model. He gave a brief introduction about the design of SMPS.



He encouraged the students to do a lot of research and projects which is useful to the society. He also shared his experience in the field of research and his social service. The overall session was so informative with many practical examples and created a great impact in designing electrical circuits in our young minds.

CONCEPTS OF INTRODUCTION TO PLC AND SCADAR

We have great pleasure in informing you that the Department of Electrical and Electronics Engineering of St. Joseph's college of Engineering, Chennai has organized a value-added course conducted by IAS society on "Introduction to PLC and SCADAR from 23rd January 2020 – 24th January 2020 for two days. The organization is NITTTTER from 10.00 A.M to 3.00 P.M. About 54 students actively participated in this event. The whole session was very interactive.

The course motivated many students to do programming in PLL and SCADAR. He gave a brief introduction about the concepts of programming in PLC and SCADAR. He made every student to think about their role in developing new project using PLL and SCADAR.

He encouraged the students to do a lot of research and projects which is useful to the society. He also shared his experience in the field of research and his social service. The overall session was so informative with many practical examples of PLC and SCADAR used industries.



CONCEPTS OF INTRODUCTION TO INTERNET OF THINGS (IOT)

We have great pleasure in informing you that the Department of EEE organized a value-added course conducted by RAS society on "Introduction to Internet of things (IOT)" from 23, 24 January 2020. The organization is Finland from 10.00 A.M to 3.00 P.M. About 52 students actively participated in this event. The whole session was very interactive. The course motivated many students. He gave a brief introduction and the concepts of interfacing IOT with goggle assistant and blink app.



"Collegiate Circuit Design Contest – C2DC" – Winners

We are happy to inform you that the IEEE Student Members of Department of Electrical and Electronics Engineering have participated and won prizes in a IEEE event "Collegiate Circuit Design Contest – C2DC" conducted by Mahendra College of Engineering, Namakkal on 28/02/2020 at Namakkal, Tamilnadu. Kumaran MS and team won 2nd prize in paper presentation. Dennis Christopher Micheal and team won 3rd prize in project expo and Bavithran and team won 2nd prize in Technical Quiz. The participants learned how to interact with other college students and had an experience on how to present before panel members.



Workshop “PLC and SCADA”

We are delighted to inform you that the Department of Electrical and Electronics Engineering of St. Joseph’s College of Engineering under the IEEE Student Branch Chapter have successfully conducted a Workshop on the topic “PLC and SCADA” for the 2nd year students on 18/02/2020 for two days by Trios Automation private limited and the resource person “Mr. Praveen S” took the topics regarding the PLC and SCADA. Throughout the two days the students were taken deep into the building algorithms of the system using PLC programming by ladder diagrams and also, they learned about the closed loop control of Industrial operation with the help of SCADA tool.



Guest Lecture on “Recent Advancements in Electrical Vehicles Drives”

We have immense pleasure in informing you that the Department of Electrical and Electronics Engineering of St. Joseph’s college of Engineering, under IEEE Student Branch Chapter has organized a Guest Lecture conducted by Industrial Application Society on the topic “Recent Advancements in Electrical Vehicles Drives” on 21/2/2020. About 100 students actively engaged with enthusiasm in this event. The whole session was very interactive. Dr. V. Karthikeyan, Assistant Professor from NIT - Calicut played the role of a harbinger, providing envious information on electric vehicles.



He gave a brief introduction about the existing trends of electric vehicle. He sowed the seeds by encouraging the students to do a lot of research and projects which is useful to the society. He added upon by sharing his experience in the field of research and his social service.

Guest Lecture on “Electrical Generator for Wind Energy Conversion”

Department of EEE under IEEE SB organized a Guest Lecture conducted by Power Electronics Society on the topic “Electrical Generator for Wind Energy Conversion” on 17/2/2020. About 90 students actively engaged with enthusiasm in this event. The whole session was very interactive. Dr. Vijayakumar Krishnaswamy from IITDM Kanchipuram played the role of a harbinger, providing envious information on electric vehicles.



This lecture motivated many students to develop projects related to wind energy. He gave a brief introduction about the problems faced in wind energy conversion. He sowed the seeds by encouraging the students to do a lot of research and projects which is useful to the society.

INDUCTION PROGRAM

IEEE Control System Society SB and IEEE Student Branch Chapter conducted Induction Program on 29.02.20 at EIE department Smart Lecture Hall. 70 members attended this program. We were very happy to invite Ms. Angelin Indira (Immediate Past Chairman-IEEE ADSF SIGHT / Crew member – Women International, Itlay). Mrs. Hepzibah welcomed the gatherings. The guest speaker motivated the students in every way and help them to understand the importance of IEEE membership. Dr.V.Vijayan felicitated the chief guest with memento and Mrs. Hepzibah thanked the gatherings..



Workshop on “Machine Learning”

We are delighted to announce, that we the IEEE Control System Society Student Chapter of St. Joseph’s College of Engineering, under IEEE Student Branch Chapter have successfully conducted a Workshop on “Machine Learning” on the 19/02/2020 at St. Joseph’s College of Engineering, OMR Chennai – 600 119. A group of around 40 students & faculty had actively participated in this workshop. The purpose of Accura 1.0 was to educate the students & faculty in the field of machine learning.



The Workshop was hosted at the smart guest lecture hall in the department of Electronics & Instrumentation. Ms. S. Hepziba & Ms. Jayashree Narayanan were our guest speakers. A brief introduction into Machine learning, Supervised, Un-Supervised learning, Regression, Clustering, ... was given by Ms. S. Hepziba, who was then followed by Ms. Jayashree Narayanan with an example by applying linear regression to predict air pollution levels. Participants were taught to apply linear regression to data using both Python & MATLAB. At the end of the event, students were split into two groups who were each assigned a data set and were given a time of one month to come up with an accurate prediction model.

Guest Lecture on “IOT based industrial drives”

Department of EEE under IEEE Student Branch Chapter organized a Guest Lecture conducted by PELS society on “IOT based industrial drives” on 7/2/2020 About 100 students actively engaged with enthusiasm in this event. The whole session was very interactive. Dr. A. Arunkumar, Teaching fellow, Department of ECE, Anna University played the role of a harbinger, providing envinous information on IOT.



This lecture motivated many students to create innovative ideas. He gave a brief introduction about the recent trends in IOT. Students were directly engaged as they were provided with live hands on training. This emphasized their knowledge.

INDUSTRIAL AUTOMATION

We are fulfilled that we have successfully conducted an event in the Department of EEE of St. Joseph’s college of Engineering, under IEEE Student Branch Chapter. Around 20 teams took part in this event enthusiastically. The event was conducted in the name Industrial Automation conducted by Industrial Application Society on 8-2-2020. It is a project expo where students presented their prototype with their innovative ideas and a team of panel members evaluated the performance of each team. In this event the first place was bagged by Sriram A and team, followed by Visvak KS and team, followed by Padma Priya S and team who belonged to second and third year respectively.



EMPOWER

We are fulfilled that we have successfully conducted an event in the Department of EEE of St. Joseph’s college of Engineering under IEEE Student Branch Chapter. Around 70 students took part in this event enthusiastically. The event was conducted in the name EMPOWER conducted by Industrial Application Society on 8-2-2020. This consisted of two rounds of which the first one was to test the skills of MATLAB and the second round of simulation skills. In this event the first place was bagged by Shri Hari and team, followed by Jaya suriya and team, followed by Shivani and team who belonged to second and third year respectively. The event was a great success. The students had a good experience and benefitted from the platform provided.



“BORN TO WIN”

Department of EEE of St. Joseph’s College of Engineering under IEEE Student Branch Chapter – WIE affinity group have Successfully Conduct an Event “BORN TO WIN” on 17/02/2020. The first round was a quiz round where question about development of Women power was themed. The Second round was a pictorial round where pictures of various famous Women personalities were display. The first prize was bagged by Gayathri B and team followed by Raj krthika R and team , Siji Catherine J and team who won 2 nd and 3 rd prize respectively.



Technical event “SPIEL 2020”

Department of ECE and IEEE SB organized a Technical event “SPIEL 2020” on 25/02/2020 for intra-chapter students. Around 40 IEEE members participated in the event. The event consists of two rounds. The first round was MCQ’s from areas like Digital Electronics, Linear Integrated Circuits, Control Systems, Electromagnetic Fields, microprocessors and Microcontrollers etc. The second round was a debate round with technical topics. Chandrasekhar K and his team bagged the 1 st prize followed by Vignesh D and team, Srimathi V and team as 2 nd and 3 rd prize.



Guest lecture on “Benefits towards society by IEEE community”

Department of ECE under IEEE SB Chapter organized an Guest lecture on “Benefits towards society by IEEE community” on 24/02/2020 by speaker Dr. Dhanukumar PattanaShetty Ph.D (Library and Information Science). Throughout the day, he enlightened the students with all opportunities that IEEE furnishes towards them and focuses on how IEEE changes the future world provides and makes the engineers throughout the world explore the latest technology. Mr. Dhanukumar also gave a clear idea on the entire nook and corner chances which IEEE



Report by: Hounandan R, Secretary -95433392

Surya Engineering College, Erode

Report on 4 th International Conference on “Computing Methodologies and Communication” (ICCMC 2020)”

The Department of EEE and IEEE student branch of Surya Engineering College organized a “4 th International Conference on Computing Methodologies and Communication” on 11.3.2020 to 13.3.2020 for UG, PG students, Research Scholars and Faculty members. The resource persons are Dr. R. Harikumar, Professor, Department of ECE, Bannari Amman Institute of Technology, Sathyamangalam, India, Dr. Suma .V, Professor, Department of Information Science and Engineering, Dayananda Sagar College of Engineering, Bangalore, India and Mr. R. Valanarasu, Senior Consultant, Enterprise Application Services, Infosys Ltd. A total of more than 180 participants attend the event and benefited.



Report by: Prof.E.Baraeetharan, Associate Professor and Head, Dept. of EEE

Vaigai College of Engineering, Madurai.

Workshop on "Big Data and Hadoop"

The Department of Electrical and Electronics Engineering and IEEE Student Branch of Vaigai College of Engineering organized Workshop on "Big Data and Hadoop" on 09.10.2019. This workshop was handled by Mr. P. Tamizhannal, Principal Engineer, MacAfee Pvt Ltd, Bengaluru. A total of 60 students attended this workshop and gained thei Mepco Schlenk Engineering Colleger knowledge related to Big Data and Hadoop.



Report by: Mr. P. Sugumaran, profpsugumaran@gmail.com



**IEEE Madras Young Professionals, ACM Chennai Professional Chapter, IEEE Madras Computer Society,
IEEE Madras Technology Engineering Management Society**

How to BE a leader in times of uncertainty?

The event has started with the high networking tea. Dr. H. R. Mohan, Chairman of ACM Chennai Professional Chapter, compered the event. Dr. P. Sakthivel, Chairman of IEEE Madras Computer Society introduced the speaker. Keynote speaker speech Dr. Latha Vijaybasker started the session by 6.00 pm. The presentation has covered the need for a radical new leadership approach in the world of disruptions, post VUCA, AI, changing generations and business landscape.



The speech given by the speaker is the new model of leadership “MiLeStrokes - Tomorrow's Leadership, the millennial way” for the millennial generation. This presentation has been scripted in a lively manner to bring the idea of leadership with Vikram Vetaal stories and will leave the audience thinking about their roles as leaders and team members. The event came to an end by the Vote of Thanks delivered by Er. Ashvanth B., Treasurer of IEEE MAS YP. The attendees had great networking with all societies and got a potential takeaway in leadership aspects.

Report by: Ashvanth B, Treasurer, IEEE MAS YP

STEP 2020 - Discovering Your Professional Future

The Inauguration of the event began with the Prayer song by student volunteers followed by which Prof. T. Sheela, HOD of Information Technology welcomed the gathering. Dr. A. Rajendra Prasad, Principal of Sri SaiRam Engineering College in his Special Address, mentioned the importance of being an IEEE Member. Dr. J. Raja, HOD of ECE delivered the Keynote Address. Er. M. Arun, Vice Chair of IEEE Madras Young Professionals gave a brief outline about the Societies and Fundings available in IEEE, following which Dr. M. Venkatesh Kumar, Immediate Past Chair of IEEE Madras Young Professionals delivered a talk on IEEE Young Professionals.



Er. Ashvanth B., Treasurer of IEEE Madras Young Professionals talked about STEP and how it helps in the professional growth of the graduating student members. Er. Brindha, Associate Professor of ECE delivered the Vote of Thanks. The Richard E Merwin scholar Mr. Leoram of Sri SaiRam Engineering College shared his experiences with IEEE. The Inauguration ceremony ended with the IEEE Code of Ethics. The event included 8 keynote sessions on the following areas: Entrepreneurship, Non-Profit Organization, Research, Teaching, Corporate Management, Higher Studies, Skill Building and A Big Picture of IEEE YP. There was also a YP panel of 5 members which addressed the queries of the participants. Venue: Leo Muthu Auditorium, SSR Hall, Sri Sairam Engineering College, Chennai. Date of Event: January 4, 2020

Report by: KARTHIK A. S. Secretary, IEEE MAS YP

IEEE MADRAS YOUNG PROFESSIONALS EXECOM MEETING

The meeting started with Ms. Karthika A. S. reading the agenda to the attendees. Mr. Aravindhan A., Chairman of IEEE MAS YP presided over the meeting. The necessity of decentralization of IEEE Madras YP events out of Chennai thus bringing in geographical diversity across TamilNadu, the need to encourage the involvement of Young Professionals in IEEE Societies and to focus on organizing skill building events in order to create a generation of Skilled Young Professionals - SkillGen were brought into consideration in the meeting. The upcoming event plans for the year 2020 were also discussed and decisions on co-sponsoring the event IEEE TEMS INDUSTRY FORUM – MADRAS was made

Reported by:
KARTHIK A. S. Secretary, IEEE MAS YP



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Dr. N. Kumarappan, Chairman IEEE MAS

Dr. R. G. Sangeetha VIT, Chennai

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