

IEEE MAS LINK

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Chairman's Message



Greetings and my warm wishes, shifting back to the monthly newsletter edition, with the effect of energetic work force and volunteer came forward to offer their services. I welcome their involvement to publish the articles conveniently in the enews-letter. I do admit the skill levels, awareness about IEEE spreading through the contributors are being increased, good sign for the benefits of IEEE Madras Section.

At the same time, I observe a very strong bonding in holding a leadership, volunteer position among the professional members held. IEEE encourages at least 20 percentile of new members to take further and the seniors contributed give-up their position to the juniors. Few societies, affinity groups and chapters have come forward and submitted the news office bearers. I welcome and wish all the new comers to take their charge and contribute with new ideas.

I had an opportunity to meet IEEE President and CEO Prof. Jose Moura and Mr. Steve Welby IEEE Executive Director & COO Bengaluru during 27th July 2019. Networking reception with IEEE India Council, IEEE Bangalore Section along with prominent IEEE volunteers and Industry leaders shared their views for the betterment of section activities.

I am happy to share that IEEE Madras Section involvement industries collaboration, for the creation of Centre of Excellence on Factory Automation Mitsubishi Electric India Pvt. Ltd., in continuation Edumeet program was organized for the benefit of education institutions and industries on 8th August 2019 at MIT Campus, around 60 participants benefited.

Participation for the Leadership Program, participated during conference leadership Program(CLP) held at Goa from 17th to 18th Aug 2019. MCE team along with sections leadership of India and International participations were participated largely. MCE team Mr. Fred Schindler, Mr. Kevin Hanft, Mr. Ray Borgone, and others there was a detailed discussions on conference managements and its issues related to TCS were discussed and the feed backs were delivered to the MCE team.

Contributions towards conferences, IEEE MCE team visited Madras section and appreciated the quality as well as more no of conferences approximately around 50 being organized through Madras section. There was a visit to SSN college being topper, organized 7 conferences and seconded by Ann University 5 conferences. Further, they were very much interested in contacting the conference organizers to get their feedback for the quality improvement. MCE-CO meet was held on 23rd August 2019 at Alumni Centre, Anna University Campus, Chennai, from 16.00 Hrs. to 20.00 Hrs. MCE team Fred Schindler Committee Objectives Past Chair, IEEE Conferences Committee and Kevin Hanft IEEE Technical Activities, Volunteer Engagement and Education gave their presentations on Overview of IEEE Conference and Overview of IEEE Conference Committee Objectives respectively. There were around 40 conference organizers participated and got benefited by this program. As usual Looking forward for your contributions, involvement, suggestions and self-nominations to improve the section activities.

With Best Regards,

Dr. P A Manoharan
Chairman, IEEE Madras Section

Message from Editor

Greetings..!

The July – August 2019 edition of IEEE MAS Newsletter is now available online.

I extend warm wishes to all the members to have a successful prospects in their endeavours.



Thanks and Regards,

Dr. S. Joseph Gladwin M.E., Ph.D.
Associate Professor, ECE Department
SSN College of Engineering
Kalavakkam - 603 110. Chennai.



Student Branch Events

Annamalai University

“Technical Events”

IEEE student branch organized technical student’s symposium “SURGE 19” on 25th March 2019. The technical session in which More than 15 papers has been presented and two technical events named Rattle and Roll and Technical connection has been conducted. Dr. N. Kumarappan, Professor and Head, Department of Electrical Engineering, Annamalai University has co-ordinated the event and also addressed the gathering. The students of Electrical Engineering participated in the events, Certificates and prizes were distributed to winners. Finally, C. Poongothai Chairman, IEEE Students Branch, proposed vote of thanks to the gathering.



“Valedictory Function ”

IEEE student branch organized a valedictory function on 26th April 2019. Dr. N. Kumarappan Professor and Head, Dept. of Electrical Engineering welcomed the gathering and introduces the chairman of the IEEE association. Dr.K.Raghukandan presided over the valedictory function and distributed certificates for the IEEE student members. Ms. C. Poongothai IEEE chairman, student branch proposed the IEEE activities throughout the year and enlisted the activities for the forthcoming year.



“IEEE Inaugural function”

IEEE student branch organized “IEEE Inaugural function” on 08th August 2019. More than 150 students were participated. Dr. N. Kumarappan Professor and Head, Dept of Electrical Engineering presided over the function introduced the chairman of IEEE student branch. Dr.K.Raghukandan, Dean, Faculty of Engineering & Technology inaugurated the function & honoured the chief guest with shawl and memento and enlisted the various facilities and schemes in faculty. C. Poongothai chairman IEEE student branch delivered the vote of thanks and concludes the inaugural function.



“Introduction to Genetic Algorithm”

IEEE student branch organized a technical talk “Introduction to Genetic Algorithm” on 19th August 2019. More than 50 students were participated. Dr. N. Kumarappan Professor and Head, Dept of Electrical Engineering gave a brief Introduction about Genetic Algorithm, and its various types and usage. Students were much benefited during this session.

Report by: C. Poongothai, Chairman, IEEE Students Branch



Chettinad College of Engineering & Technology

Technical seminar on “Energy Conservation and Management”

The Department of ECE and IEEE Student Chapter IEEE SB (SB No 10078) of Chettinad College of Engineering & Technology, Karur organized a technical seminar on “Energy Conservation and Management” on 7th August 2019. Mr.V.Anandhkumar, Assistant Professor/EEE department presented the technical seminar on “Energy Conservation and Management”. He shared his experience among the 104 budding Electronics & Communication Engineers and brought out the importance of power conservation.



He explained how the electricity to be handled in domestic places & industrial sectors. He also explained the emerging opportunities in the Indian power sector and shared in detail about the operation of different lighting systems and their power consumption.

Report By: Dr. (Mrs).A.Punitha

Dr. Mahalingam College of Engineering and Technology

“Inauguration Function”

IEEE student chapter-61631 of Dr.Mahalingam College of Engineering and Technology has organized an inauguration programme for the office bearers of IEEE and WIE on 2-10-2018 .In these programme office bearers were introduced to each other and were informed about their roles in the chapter.



IEEE student chapter-61631 of Dr.Mahalingam College of Engineering and Technology has organized an event for the first year of Automobile engineering on Wednesday July 17 2019 .On this event the student are motivated to answer the domain related questions and encourages to increase their communication abilities by means of a activity called chain of words and picture description.



“Induction Program”

IEEE student chapter-61631 of Dr.Mahalingam College of Engineering and Technology has organized an induction program for the second year of Electronics and communication Engineering on Tuesday August 6,2019 .On this program the students are informed about the importance of IEEE and were motivated to indulge in the activities conducted by it.

Report By, Harshini T (WIE Secretary)

Dr. N. G. P. Institute of Technology

“Inauguration of Association of EEE and IEEE Students Branch”

Department of EEE and IEEE student branch inaugurated “ELECTROZ” Association of Electrical of Electronics Engineers and IEEE Students Branch on 29th July, 2019 at 10. 00 a.m in East Seminar Hall, A Block. We invited the Chief Guest of “ELECTROZ” Association of Electrical of Electronics Engineers and IEEE Students Branch, Er. Sundar Muruganandhan, Managing Director, Versa Drives Private Limited, Coimbatore. Mr. C. Abiraj, Student Secretary– ELECTROZ, Dr. N.G.P. IT, delivered the welcome address with blessings of Chairman, Secretary and Principal.



Dr.C. Kailasam, Director-S&H, Dr. N.G.P. IT, addressed about the initiation of ELECTROZ and significance of insulation cable. Also, he felicitated to Chief Guest. Dr. C. Vivekanandan, Student Affairs, Dr. N.G.P. IT, address about the importants of electrical engineers and their oppourntities. Dr. S. Jaganathan, HoD – EEE, Dr. N.G.P. IT, introducing office bearers of “ELECTROZ”. Chief Guest address about the Super Fan desgin and its power saving technology in compariosn with traditonal

fan. Also, he discussed about the V/f control concept, PMLDLC drive and also, interacted with students. Inaugural function ended after the vote of thanks by Ms. S. K. Arthi, Student Secretary – IEEE Students Branch, Dr. N.G.P. IT.

“Guest Lecture Series”

Department of Electrical and Electronics Engineering and IEEE student branch organized Guest Lecture Series on 29th July, 2019 at 3.00 p.m in LH-318 for EEE students. We invited the Guest Lecture Speaker, Dr. G. Venkatesan, Professor-EEE, Karpagam College of Engineering, Coimbatore. Dr. S. Jaganathan, HoD – EEE, Dr. N.G.P. IT, introduced about the Chief Guest. Mr.E. Kannapiran, AP-EEE, Dr. N.G.P. IT, felicitated the gathering. Chief Guest address about recent trends in Power Electronics and its application. Also, he interacted with students. Guest lecture function ended after the vote of thanks by Dr.K. Ramash Kumar, ASP-EEE, Dr. N.G.P. IT.



Report by, Dr. K. Porkumar (90534204), IEEE SB Counsellor

Francis Xavier Engineering College, Tirunelveli

“Hands – On Training Using Android & PHP”

The Department of Computer Science and Engineering and IEEE student branch of Francis Xavier Engineering College organized two days “Hands – On Training Using Android & PHP” on 20.5.2019 to 21.5.2019. The first day (20.05.19) was proceeded by Mr. Arun, ACME InfoTech, Tirunelveli present his training session on PHP and he explained the new methodologies of PHP and demonstrates the application orientation projects. Students are able to follow the developing ways in PHP platform.



The Second day (21.05.19) Resource Person demonstrates the application usage of Mobile Development. Various projects are discussed related to the Mobile forum and implemented the several exercises for the students. Students gained the training corresponding to the mobile application development.

Workshop on “Robotics and Automation”

The Department of CSE and IEEE student branch of Francis Xavier Engineering College organized one day “Workshop on Robotics and Automation” on 12.3.2019. Er. Madhusoothanan, Manager, Research and Development, Nasscom, Bangalore is the resource person. More than 70 students from various colleges were attended this event. This event was successfully coordinated by Mr.Amarsingh Feroz Asso.Prof/ECE & Mrs.E.Francy Irudaya Rani AP/ECE.



Workshop on “Intellectual Property Right”

The Department of CSE and IEEE student organized two days “Technical Workshop on Intellectual Property Right” on 8.4.2019 to 9.4.2019. Dr.R.Srinivasan, Member secretary TNSCST was the chief guest. Dr.Joy Winnie wise Principal –FXEC welcomes the gathering. Mr.C.Arun Babu, Managing director, SCAD Group, Dr.K.Jeyakumar, GM (Development) and Dr.N.Chandraseker, Dean R&D felicitate the gatherings. Dr.V.Velmurugan Professor/ Research proposed a vote of thanks. Dr.Joe Patrick Gnanaraj coordinates the program. More than 40 students attended this event and gained awareness about the intellectual property rights.



Guest talk on “Electronics Performance Quality Metrics - An Interdisciplinary Approach”

The Department of CSE and IEEE student branch of Francis Xavier Engineering College organized one day “guest talk on “Electronics Performance Quality Metrics - An Interdisciplinary Approach” on 26.3.2019. The talk was delivered by the expert Dr. R. Muthukumar, Scientist ‘F’ Grade, Director, Electronics Test and Development Centre, STQC Directorate, Ministry of Electronics and I.T., Govt. of India, Thiruvanimiyur, Chennai. 40 participants including faculty members of circuit branches of FXEC and students of data science, IoT and Cyber forensics lab attended the programme and get benefited.

Report by: Dr. Raj Kumar, fxieeesb@gmail.com



Hindustan Institute of Technology, Coimbatore, India.

“Project Expo 2k19”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized one day “PROJECT EXPO 2K19” on 22.2.2019 for the all the department of UG students and PG students. The resource person is Mr. P. Ashok Founder and Ceo Latlon Technologies Private Limited, Coimbatore. A total of more than 75 students attended this project Expo and presented their innovative ideas.



Seminar on “Protection against Ionizing Radiation: Health Hazards and their Potential Effects on Biological Agents”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized “One Day Seminar on Protection against Ionizing Radiation: Health Hazards and their Potential Effects on Biological Agents” on 15.2.2019 for the all the ECE department UG students and PG students. The resource person is Mr. S. Selva Kumar Scientist – B Defence Research & Development Organization (DRDO) Ministry of Defence, Govt. Of India, Bangalore. A total of more than 120 students attended this seminar and gained their knowledge in Health Hazards and their Potential Effects on Biological Agents.



Seminar on “Underwater Optical/Acoustic Communication System for Swarm Unmanned Vehicle Network”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized “One day Seminar on Underwater Optical/Acoustic Communication System for Swarm Unmanned Vehicle Network” on 4.1.2019 for the ECE department UG students and PG students. The resource person is Mr. D. Sai Natarajan (Ceo), Duratech Solutions, Saibaba Colony, and Coimbatore. A total of more than 50 students attended this useful seminar and gained their knowledge in advances and applications in Unmanned Vehicle Network.



Seminar on “Nuclear Energy and Societal Development for a Sustainable Universal Society”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized two days “Seminar on Nuclear Energy and Societal Development for a Sustainable Universal Society” on 7.7.2018 and 8.8.2018 for the EEE and ECE department UG students and PG students. The resource person is Mr. S. Sanjay, Managing Director Kondaas Automation Private Limited. A total of more than 55 students attended this useful seminar and gained their knowledge in advances and applications in Nuclear Energy.



Seminar on “Digital Image Processing”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized Seminar on “Digital Image Processing” on 20.10.2018 for all the department of UG students. The resource person is Dr. G.K.D. Prasanna Venkatesan Dean Engineering Karpagam Academy of Higher Education Coimbatore. A total of more than 80 students attended this useful seminar and gained their knowledge in advances and applications in Digital Image Processing.



Workshop on “Mobile Based Network Monitoring System”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized a “Workshop on “Mobile Based Network Monitoring System” on 8.9.2018 for the department of ECE and CSE students. The resource person is Thiru. S. Sathesh Kumar, Deputy Director Msme-DI (Br.), Coimbatore. A total of more than 70 students attend this event and gained their knowledge in advances and applications in Mobile Based Network Monitoring System.



Seminar on “Renewable Technologies for On-Grid Electricity Generation”

The Department of ECE and IEEE student branch of Hindustan Institute of Technology organized “One Day Seminar on Renewable Technologies for On-Grid Electricity Generation” on 10.8.2018 for the EEE department UG students and PG students. The resource person is Mr.P.Suresh Kumar, Ceo Agna Inc, Coimbatore. A total of more than 35 students attended this useful seminar and gained their knowledge in advances and applications in Renewable Technologies for On-Grid Electricity Generation.



Report by: Dr. S. Kavitha, Associate Prof. /ECE

Jansons Institute of Technology

“IEEE Spectrum Discussion”

IEEE Student Branch organized a technical programme “IEEE Spectrum Discussion” on 26.08.2019 from 03:45 pm to 05:00 pm. Ms. Shalini, III year ECE Welcomed the gathering for the IEEE Spectrum discussion for the month of August 2019. The snapshots of IEEE Spectrum magazine was discussed by Ms.Matheswari, III year ECE. A technical presentation of “Hydrogen Train” was done by Ms. Deepana, III year ECE. A detailed discussion on the topic was happened among the members. Finally, Dr.S. Elangovan, SB counselor and Mr.Ramanarayanan, SB chair discussed about the updates of SPAC to be held on 31.08.2019.

Report by: Dr.S. Elangovan



Jeppiaar Institute of Technology

“Tech Hub Event - 2019”

The IEEE student branch of Jeppiaar Institute of Technology has conducted the “TECH HUB - 2019” for the 2nd year and 3rd year students on 09.08.2019. The Judges for this event was Dr.Uma, Professor/ECE department and Dr. Prajith Prabhakar, Assistant professor/EEE. The event started with the Welcome speech was given by Mrs.Benisha, Counsellor of JIT IEEE SB. Then the Judge Dr. Prajith Prabhakar , Assistant professor/EEE gave a motivational speech about the tech hub event. Then the participants execute their project ideas with their proper presentation.



Totally 10 teams were participated. The students were very innovative and came with good projects ideas. During that session the participants answered all the questions raised by the judges with proper explanation. After the participants presented their innovate ideas the judges finalized the best project idea and list out the winners. At the end of the session judges encouraged the participants and their creative ideas also motivate them how to convert their ideas into projects. They cleared all the doubts asked by the participants. Finally, the session ends with group photo.

“T-Shirt Design Contest – 2019”

The IEEE student branch of Jeppiaar Institute of Technology has conducted the “T-Shirt Design Contest - 2019” on 22.08.2019. Totally 10 teams & 40 students were participated in the contest. During the section the participants implement their innovative ideas in the theme of Recent technologies, Agriculture, Women Empowerment, Child labour using Photoshop tool and some teams done by using plain T-shirt. Time period given for the contest to design their ideas was 90 minutes. Participants were answered all the questions rose by the judges with proper explanation.



Judges encouraged the participants and gave ideas how to convert their Innovative Ideas into success path. Finally, two best designs were selected by the judges. Program ends with networking & group photo.

“SHE-2019 EVENT “

The IEEE student branch of JIT-WIE organised the SHE event, on August 22nd 2019 at SSKV Matriculation School, Kancheepuram-631 501. This is the flagship event conducted to school students every year. The event was conducted for IX standard students. There were nearly 150 students. The session included presentation on Science, Experimental studies, Health and hygiene, and education. 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 and valedictory with the school principal and group photo.



K.Ramakrishnan College Of Engineering, Tiruchirappalli

“Seminar Talk”

IEEE Student Branch has organized Seminar Talk on the title “UK’S FIRST HYDROGEN TRAIN” on 2nd July 2019. IEEE Executive member Mr. Joshwa joyson , third year EEE delivered the seminar. IEEE student members and students of second year benefitted through the seminar. IEEE student Chairman, Vice-Chairman, Secretary, Treasurer and the executive committee members organized the event.



“Resume Creation Using IEEE Resume Lab”

IEEE Student Branch and EEE department has organized an event on “Resume creation- using IEEE Resume Lab” on 8th July 2019. IEEE Student branch advisor Mr. R. Gopalakrishnan, Assistant Professor, EEE department highlighted the importance of resume creation. Nearly 35 students benefitted through this event and they have created their resume through IEEE resume lab. The event was organized by Dr. K. Dhayalini, Professor, department of EEE.



“Seminar Talk”

The IEEE Student Branch & Petroleum Conservation Research Association (PCRA) jointly organized an awareness seminar topic on the title “Mass awareness for conservation of petroleum products and energy management” on 12th July 2019. All IEEE members of 120 student members and 13 professional members participated in the awareness programme. .The event started with the welcome address by Dr. K. Dhayalini, IEEE SB counselor and Head, EEE. The guest speakers are Mr.P.Kothandaraman, Engineering and Management Consultant, and Mr.S.Mahadevan, Consultant Energy and Energy Efficiency, Chennai who delivered a seminar talk on the title “Mass awareness for Conservation of Petroleum products and energy management”.



He highlighted the importance to conserve petroleum and energy management. He was felicitated by Dr. R. Kamaraj, HOD, MBA. The entire program was organized by Student branch counselor Dr. K. Dhayalini, Professor, EEE.

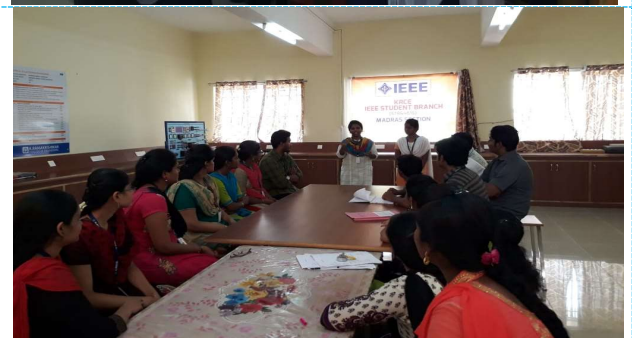
“Project Expo”

IEEE Student Branch and EEE department organized project expo on 29th July 2019. Students displayed the model projects and explained their principal and working to second year students. Under the guidelines of the IEEE Student branch counselor Dr. K. Dhayalini, Professor, EEE department and IEEE Student branch advisor Mr. R. Gopalakrishnan, Assistant Professor, EEE department, IEEE student Chairman G. Meenakshi Sundaram who coordinated this event effectively. Nearly 60 students benefitted and learnt through this event.



“Seminar Talk”

IEEE Student Branch organized seminar talk on “Need of AI & Robotic skilled Engineers” on 30th July 2019. Under the guidelines of IEEE SB advisor Mr. R. Gopalakrishnan, Assistant Professor, EEE department, IEEE student Chairman who coordinated the event. Vice-Chairman, Secretary, Treasurer and the executive committee members participated the seminar. They discussed about the importance of learning AI & Robotic skills for the engineers. They highlighted the need of robotic skilled engineers to the future world.



“Deep Learning”

IEEE Student Branch and CSE department organized workshop on “DEEP LEARNING” on 10th&11th July 2019. Mrs.M.Sumathi, Assistant Professor, department of CSE coordinated this event. They discussed about the importance of Machine Learning concepts and Deep Learning concepts for the engineers. They provided Deep Learning with related hands on session. Nearly 120 inter and other college students participated and benefitted through this event. This event was organized by Prof. T.M.Nithya Professor, department CSE.

Report prepared by
Dr. K. Dhayalini, Student SB



Kings College of Engineering

“IoT using Raspberry Pi”

Department of ECE and IEEE Student Branch organized a one day workshop on “IoT using Raspberry Pi” on 19th July 2019. Totally 60 students have enthusiastically participated from various institutions. The objective of this workshop was to motivate the students and to involve them in IoT domain.

Mr.A.Jeevanantham, Assistant Professor, IT, Kongu Engineering College briefed on IoT, Architecture of Raspberry Pi, hardware specifications of IoT, GPIO and its uses. During the forenoon session, he demonstrated Interfacing of LED and AC appliances with Raspberry Pi and also controlled them via cloud.



“Expert Lecture On Antenna Made Simple”

The students’ notion “Antenna is a tough Electromagnetic subject” is proved wrong by Dr. D.C. Pande, Dr. Raja Ramanna DISTINGUISHED DRDO Fellow, Electronics and Radar Development Establishment (LRDE), Bangalore and the event is on Aug 9 2019. Dr. D.C Pande, while addressing around 400 students of Kings College of Engineering, Thanjavur, demonstrated that Antenna Engineering, the most important technology of communication, is a child’s play. He made the students feel “Antenna is a popular subject of Electronics and Communication Engineering”.



Dr. R. Rajendran, Secretary and Dr. J. Arputha Vijaya Selvi, Principal, while felicitating Dr. Pande insisted the importance of becoming professional society member. Dr. S. Raghavan, Professor, NIT Trichy and IEEE senior member, in his address stressed that the engineering students should aspire for core engineering jobs and not for software placements. Earlier Prof. N. Mangaiyarkarasi, Head of ECE, welcomed the gathering and explained about IEEE activities of the college.

“Expert Lecture on “Biomedical Instrumentation”

Department of ECE & IEEE Student Branch organized an expert lecture on “Biomedical Instrumentation”. Dr. Raji Sundararajan, Professor /Electrical Engineering, Purdue University, Indiana, USA, was the resource person. Her lecture titled “Electroporation based therapies for cancer”, includes the concept of Electroporation, Electro chemotherapy and Electro-Gene therapy. Her lecture was focussed on the molecular and cellular events involved in tumour formation, progression, metastasis, and drug binding which are crucial to the development of innovative therapy for cancer patients.



She also briefed the application of high intensity, short duration (milli and micro seconds), electrical voltage pulses for the treatment of breast carcinomas and other cancers, as drug delivery is one of the most challenging issues of the medical community. Dr.Raji Sundararajan shared her experience in treating the cancer patients and challenges faced during the treatment of cancer with application of electrical pulses with real time pictures.

Knowledge Institute of Technology

“Awareness Discussion”

The IEEE-SB KIOT organized Awareness Discussion a held on 30.04.2019 with the IEEE student members of KIOT. The resource person was Mr. R. Raghavendar, Chairman IEEE SB KIOT. The main motive of this session is to increasing the LSRW skill. This skill was improved by reading the newspaper daily. Reading newspaper is a good habit and by reading newspaper they can aware about the present condition of their world such as politics, technological development, environmental issues, various case studies, sports, etc... Finally this session was concluded by sharing the today’s news article. This session was interactive.



“Awareness Discussion on How to Turn Your End User into Your Friend User and Reduce Biggest Risk”

The IEEE-SB KIOT organized Awareness Discussion a held on 02.05.2019 with the IEEE student members of KIOT. The resource person was Ms. S. Anitha, Member IEEE SB KIOT. The main motive of this session is to develop the imagination and the thinking ability. This can be improved by analysing the situation, getting fail experience, taking list of survey, finding the solution to the problem. Maintaining the peaceful relationship is very much important in this developing technology. This can be achieved by following the four points mentioned above. She shared about the above mentioned points clearly. This session was interactive and the students were clarified their doubts.

“Group Discussion on Future Robotics Technology”

The IEEE-SB KIOT organized a Group Discussion held on 14.03.2019 with the IEEE student members of KIOT. This event was conducted by IEEE Students Members 2k19. The main motive of this GD is to know and apply the robotics for the future purpose. The group discussion was very interactive. Students were discussed about the Generations of robots, Laws of robotics, Programming languages used for robotics, Types of robots such as Industry linked robots, Military robots, Under-sea robots, Space robots and manufacturing and non-manufacturing industries robots. Finally they discussed about the Invisible robots which are not yet found and purpose of those invisible robots, their drawbacks with their futuristic applications, etc.



“Guest Lecture on Present Job Scenario Selection”

The IEEE-SB KIOT organized a Guest lecture held on 25.02.2019 with the ECE student of KIOT. The resource person for the event was Mr. S. S. Kalyana Raman, Vertical Head HR, Renault Nissan Technology & Business Centre India Private Ltd, Chennai. He interacted with the students about the recent trends and technologies. And he discussed about the job selection mode. Then he shared his experience of being an HR. Finally he discussed about the challenges which are presently facing for job permanent.



“Hands on Training on FPGA Spartan 3E kit implementation”

The IEEE-SB KIOT organized a Hands on Training held on 18.04.2019 with the IEEE student members of KIOT. The resource person was Mrs. R. Hemalatha, IEEE SB Faculty In-charge. She shared about the VLSI real time applications and its importance with their advantages. After that she shared about the importance of FPGA then she trained the student members by using the FPGF Spartan 3E kit. Finally she shared about the performance and its advantage. This session was interactive and students were clarified their doubts.



“IEEE Chairman meeting”

The IEEE-SB KIOT organized a Chairman Meet held on 28.03.2019 with the IEEE student members of KIOT. The event was organized by Mr. R. Raghavendar, Chairman IEEE SB KIOT. He interacted with the students about the recent trends and technologies. And he discussed about the topics related IEEE Technical Communities, IEEE Councils, IEEE Vertical Societies, IEEE Membership benefits, IEEE Sight. Then he shared his experience of being an IEEE Volunteer. Finally he discussed about the challenges which we are presently facing in our society. The ultimate aim for this is to update the current technology for our students. Moreover, he discussed about the advantages of being a member in IEEE. This session was very interactive and the students got clarified their doubts.

“Fun Event – Classroom Charades”

The IEEE-SB KIOT organized a Fun Event – Classroom Charades held on 01.04.2019 with the IEEE student members of KIOT. The event was supervised by Ms. S. Anitha, IEEE Executive Member, KIOT. We organized the relaxation event called Classroom charades for the students. The main motive for this event to develop the imagination level of their thoughts. This game is a well popular known game most of the industries workers are also spend their time to play this, it will helps us the thing beyond our imagination. Each and every students are participated and enjoyed the game till end of the game.



“Make a Product discussion”

The IEEE-SB KIOT organized a Discussion held on 22.03.2019 with the ECE student of KIOT. This event was conducted by IEEE Students Members 2k19. The main motive of this discussion is to develop the product which is useful to the environment. The IEEE executive members shared how to select the project ideas such as human friendly projects, environment safety projects, innovative thinking projects, etc... The main motive of this discussion is to how apply the humanitarian project idea development. The students got clarified their doubts.



“National Level Technical Symposium”

The IEEE-SB KIOT & INTEC Association of ECE organized a symposium held on 25.02.2019 with the students of various colleges in Tamil Nadu. The chief guest for the event was Mr. S. S. Kalyana Raman, Vertical Head HR, Renault Nissan Technology & Business Centre India Private Ltd, Chennai. Firstly the Souvenir was released which contains the abstracts of the presentation which was prepared by the participants. After that, the events like paper presentation, Project Presentation, Robo-Race, Line Follower events was organized followed by the non-technical events such as Quiz, Fun events are also organized. Finally the participants are appreciated with the appreciation certificate and the merit certificates are provided for the event winners.



“Technical Talk “

The IEEE-SB KIOT organized a Technical Talk – Paper Presentation held on 25.02.2019 with the ECE students of KIOT. The resource person for this event was Mrs. R. Hemalatha, IEEE SB Faculty In-charge, Assistant Professor/ECE. The main motive for this event is to develop the presentation skill, technological awareness and communicative skills between students and followed by the non-technical events such as Quiz, Fun events are also organized. Finally the merit certificates are provided for the event winners.

“Project Expo “

The IEEE-SB KIOT organized a Project Expo held on 29.03.2019 with the ECE student of KIOT. The event was supervised by Mrs. R. Hemalatha , Assistant Professor/ECE, IEEE SB Faculty In-charge. Students presented 50+ innovative projects and most of the projects are simulated through the software simulation tool such as Proteus, Xilinx, MAT Lab, MultiSim, etc... They presented their project such as environment safety, Human safety. The participants are appreciated and finally the merit certificate was given to the best project



“Spectrum Analysis on Chip design with 40 GPU’s “

The IEEE-SB KIOT organized a Spectrum Analysis held on 24.04.2019 with the IEEE student members of KIOT. The resource person was Ms. S. Anitha, Member IEEE SB KIOT. She shared about the use of silicon in semiconductor industries. And she shared about the many computing techniques such as parallel computing technique etc... She shared about the super computers with the bandwidth, latency and energy chart. Finally she concluded with the overcome the problem which we are facing in the silicon wafer. This session was interactive and students were clarified their doubts.

“Seminar on Machine learning “

The IEEE-SB KIOT organized a Seminar held on 7.03.2019 with the IEEE student members of KIOT. The resource person for this event was Dr. N. Santhiyakumari, IEEE-SB Counselor, and Head of the Department ECE. Initially she started her speech about the recent trends and development in the field of Electronics. After that she started to share about the Machine Learning and its types, working of Machine Learning, Applications of ML, Recent Trends in ML, ML in terms of Medical Science. And she encouraged the students to take online courses. Finally she shared about her opinion about ML and its advantages. This session was very much use full to the participants and she clarified the student doubts.



“Spectrum Analysis on Quantam Computing”

The IEEE-SB KIOT organized a Spectrum Analysis held on 09.04.2019 with the IEEE student members of KIOT. The resource person was Mr. R. Raghavendar, Chairman IEEE SB. He shared his thoughts about the basics of quantum computing and the research reports published about quantum computing from 1996 till 2016. Then he shared about the experiments are developed in quantum computing theory and the various strategies.

“Spectrum Analysis on MAT Lab speaks machine learning

The IEEE-SB KIOT organized a Spectrum Analysis held on 5.03.2019 with the IEEE student members of KIOT. The resource person for this event was Ms. S. Anitha, IEEE Executive member, KIOT. Initially she started her speech about the recent trends and development in the field of Electronics. She shared most of the innovation projects which are used presently in our developing scenario. After that she started to share about the Machine Learning, key features of ML and concept of Machine learning. And she shared how the MAT Lab proficiency Tool is used to develop the ML projects. This session was very much use full to the participants and she clarified the student doubts.



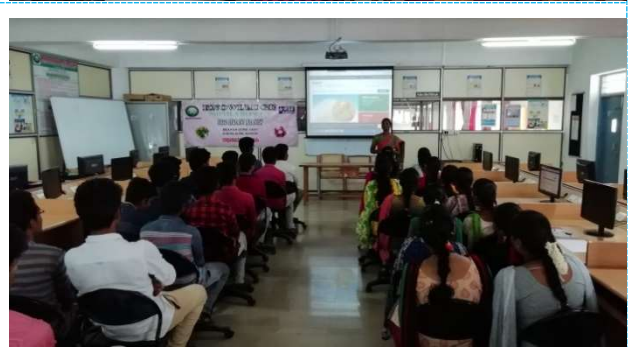
“Spectrum Analysis on VR for your ears”

The IEEE-SB KIOT organized a Spectrum Analysis held on 26.03.2019 with the IEEE student members of KIOT. The resource person was Mr. M. Gowtham, IEEE Executive member, KIOT. He shared about the communication channel and signals such as Analog, Digital and Frequency modulated etc... After that he shared about Virtual reality its purpose and important features. And shared about the audio format such as two channel, stereo, sound. Finally he shared about the 3D audio recording and he displayed some images. The students got clarified their doubts.



“Technical Lecture on Computer Architecture”

The IEEE-SB KIOT organized a Technical Lecture held on 12.04.2019 with the IEEE student members of KIOT. The resource person was Mrs. R. Hemalatha, IEEE SB Faculty In-charge. She engaged the session by starting with the topic basic components of Computer architecture. And she discussed about various classification of the architecture and its programs. She shared about the Arithmetic and logical methodologies used in Computer Architecture. Finally she shared about the performance and its advantage. This session was interactive and students were clarified their doubts.



“Workshop on VLSI circuit designing using Micro wind”

The IEEE-SB KIOT organized a VLSI circuit designing using Micro wind tool held on 05.04.2019 with the IEEE student members of KIOT. The resource person was Mrs. R. Hemalatha, IEEE SB Faculty In-charge. In this session we conducted the One day workshop for our students to design the VLSI circuit and to know about the fabrication techniques by using the micro wind tool. The ultimate aim for this workshop is to design the high efficiency, low power consumption circuit and to understand the concepts of voltage and power consumptions of the VLSI circuits.

“IEEE YESIST-12contest on Age of Innovation”

The IEEE madras section and IEEE-SB KIOT organized the TDCS YESIST-12 contest on Age of Innovation held on 16.07.2019 with the school students. More than 20 teams had participated in this contest and presented their project works. Their projects are good and they interacted very well. And we have given some ideas for the enhancement of their projects. Finally the best selected teams are selected for the next step of the contest. The ultimate aim for this is to update the current technology for the school students. In this day we have learnt a lot from them. This session was very interactive and the students are very much interested in presenting their projects and shared their knowledge with each other.



“TDCS Eu-Reka contest on Technologies for Education, Sports and Women welfare”

The IEEE pune section and IEEE-SB KIOT organized the TDCS Eu-Reka contest on Technologies for Education, Sports and Women welfare held from 18.07.2019 to 22.07.2019 with the students of the rural and urban schools. The contestants are Mr.D.Anudeepak, Mr.K.Niranjana, Mr.S.A.Gowtham Vishal and Mr.K.R.Sabari. We interacted with the students about how the technologies are used in education and sports. And we discussed that the technology can enhance human lives especially women. Finally we discussed about the advancements in the technologies.



“TDCS Eu-Reka contest on Technologies for Education, Sports and Women welfare”

The IEEE pune section and IEEE-SB KIOT organized the TDCS Eu-Reka contest on Technologies for Health care and Medical diagnosis held from 18.07.2019 to 22.02.2019 with the students of the rural and urban schools. The contestants are Mr.V.Thamilarassan, Mr.J.Bhoopathi , Mr.P.Lokesh and Mr.A.P.Aravindhaan. We interacted with the students about how the technologies are used in health care and medical diagnosis for better execution. And we discussed that the technology can enhance human lives related to human health monitoring and analytics.



“TDCS Eu-Reka contest on Technologies for Education, Sports and Women welfare”

The IEEE pune section and IEEE-SB KIOT organized the TDCS Eu-Reka contest on Technologies for Food processing, agriculture and rural development held from 18.07.2019 to 22.02.2019 with the students of the rural and urban schools. The contestants are Mr.M.Gowtham, Mr.R.Ajith, Mr.V.Monish and Mr.T.Tharun. We interacted with the students about how the technologies can be applied in real time. And we discussed that the technology can enhance human lives related to food processing, agriculture and rural development. Finally we discussed about the advancements in the technologies. The ultimate aim for this is to update the current technology for the school students. In this session we discussed about the usage of recent technology for the benefits for the enhancement of the human life. This session was very interactive and the students are very much interested in clarifying their doubts.

“Spectrum Analysis on Drones Survey The Great Barrier Reef”

The IEEE-SB KIOT organized the Spectrum Analysis on Drones Survey The Great Barrier Reef held on 12.07.2019 with the IEEE members of KIOT. The event was organized by Mr.R.Ajith , IEEE Executive Member, KIOT. He interacted with the students about the greatest barrier reef which is the world’s largest structure made up of living organism. And he discussed about the area covered by these reefs and how it is difficult to monitor them manually. Then he shared about the technologies used for the monitoring of these reefs for degradation and also bleaching. Finally he discussed about the challenges which we are presently facing under this technology. The ultimate aim for this is to update the current technology for our students. In this session we discussed about the usage of recent technology for the benefits of environment. Moreover, we discussed about the advantages of this technology. This session was very interactive and the students got clarified their doubts.

“Spectrum Analysis on Laser Detects Cancer Cells in the Bloodstream”

The IEEE-SB KIOT organized the Spectrum Analysis on Laser Detects Cancer Cells in the Bloodstream held on 8.07.2019 with the IEEE student members of KIOT. The event was organized by Mr.V.Thamilarassan, IEEE Executive Member, KIOT. He interacted with the students about the accuracy of the system to detect the cancer cells in 27 out of 28 people and this technology is 1000 times better than current technology. And he discussed that the lasers are used for the detection and to destroy the tumor cells in the bloodstream. Then he shared about the methodologies of this technology. Finally he discussed about that the photo acoustic effect produces sound waves and this is recorded by the transducer which is used to detect the cancer cells. The ultimate aim for this is to update the current technology for our students. In this session we discussed the most developed technology for the detection and killing of cancer cells with the vapor bubbles formed by the heat produced by the laser pointer. Moreover, we discussed about the advantages of this technology. This session was very interactive and the students got clarified their doubts.

“Technical talk on How technology can be used effectively”

The IEEE-SB KIOT organized the Technical talk on How technology can be used effectively held on 15.07.2019 with the IEEE members of KIOT. The event was organized by Ms.S.Anitha , IEEE Executive Member, KIOT. She interacted with the students about how the technologies can be applied in real time. And she discussed that the technology can enhance human lives. Then she shared about the technologies used for smart homes and automatic vehicles which we are using in our daily lives. Finally she discussed about the advancements in the technology. The ultimate aim for this is to update the current technology for our students. In this session we discussed about the usage of recent technology for the benefits for the enhancement of the human life. Moreover, we discussed about the advantages of this technology. This session was very interactive and the students got clarified their doubts.

Reported by, Dr. N. Santhiyakumari. IEEE-SB Counsellor

Kongu Engineering College, Perundurai

“Power electronics and drives”

The session handled by Ms. Saravana Kumar was more informative and interactive. The lecture gave a brief knowledge on process carried out in core industry and importance of core industry. The career growth in the industry was clearly elaborated to the students. At the end of the lecture, students understood the updated technologies in the field of power electronics and its scope in future. Students were aware about importance of power electronics in the field of renewable energy in future.



“YESIST12 International Project Competition And Maker Fair 2019 – Prelims”

INNOVATION CHALLENGE: We conducted prelims event of the innovation challenge at our planned dates and one team was selected as winner. The winner was selected on the basis of the Creativity, novelty and usefulness to society and sent to the mains event at Thailand held on 8th September 2019. **MAKER FAIR:** Maker Fair track is organized to help the students display their technical skills and team work. Under this abstracts will be called for and evaluated for their social usefulness and ability to be converted into a product.



“Women as Leader”

IEEE student branch of Kongu Engineering College in association with Women In Engineering (WIE) has planned for a Guest Lecture on "WOMEN AS LEADER" by Ms.J. Angelin Indira, Project Manager, IIT Madras, Chair IEEE ASDF SIGHT on 18th July, at 9:00 am in Mahatma Gandhi Seminar Hall. She motivated the young girls on the list of different circumstances to be faced and the possible methods to face them and tackle them with her own experience.

Report by: Dr. N.Nithyavathy, IEEE Branch Counselor



Panimalar Institute of Technology

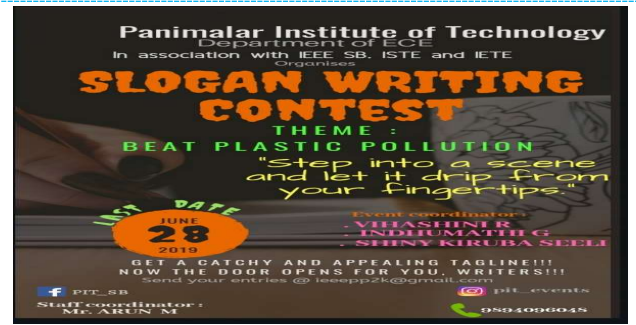
“Environmental Day Photo Contest”

IEEE SB Panimalar Institute of Technology in association with IEEE COMSOC, PES, IAS, CSI, ISTE, SAE, IET, IETE-ISF organized online photo contest as a part of Environment Day during June, 2019. Students enthusiastically submitted their photos. Photos were innovative in its own way portraying useful facts to the society. 24 Students from various institutions participated. K.Jaikher of Sri Sairam Engineering College won the first prize. Mr. M. Arun, IEEE SBC Counsellor coordinated the event.



“Slogan Writing Contest”

IEEE SB Panimalar Institute of Technology in association with IEEE COMSOC, PES, IAS, CSI, ISTE, SAE,IET, IETE-ISF organized slogan writing contest as a part of Environmental Day celebration during June,2019. Ajay Vince V of Panimalar Institute of Technology won the first prize for his slogan. Around 55 students participated submitted their slogans that created awareness on Environmental safety. Mr. M.Arun, IEEE SBC Counsellor coordinated the event.



“STTP On Embedded System Based Smart Farming With Less Water And Fertilizers Via IOT Technologies”

Panimalar Institute of Technology organized STTP on Embedded System based Smart Farming with less water And Fertilizers Via Iot Technologies during 10.06.19-15.06.19 in collaboration with IEEE SP, RAS, IAS, ISTE, IETE-ISF. The event is sponsored by AICTE.

Shri H R Mohan, Chair, ACM India Chapter inaugurated the event and delivered the talk on Agriculture – IoT in India-Possible Embedded Solutions.

Dr.S. Mageswari, Professor & Head, Civil Engineering Panimalar Engineering College delivered a talk on Smart Farming Drip Irrigation System – Implementation Procedure.

Dr.NR.Shanker, Managing Director, Chase Technologies, Chennai delivered a talk on Developing Drip Irrigation system followed by hands on session.

Mr.S.Kalidas, CEO, IF and FOR ENDEAVOURS CHENNAI delivered a talk on IoT Embedded Solutions for Sprinkler Irrigation System followed by hands on session.

Dr.N.Pughazendi, Professor, Panimalar Engineering College, Chennai delivered a talk on Sprinkler Irrigation System- Implementation aspects – IoT .

Mr.M.R.Senthil Kumar & his team from Pantech ProEd Pvt. Ltd, Chennai handled the hands on session.

Dr.S.Ganesh, Professor, Department of ECE, Panimalar Institute of Technology delivered talk on Drone Technology for Smart farming.



Dr.Athif shah,ABE Semiconductor Design, Chennai delivered talk on Embedded Systems IoT for Hydroponics Farming. Dr.A.Latha, Associate Professor, Panimalar Engineering College & Dr.S.Sathiya Priya, Prof ECE delivered talk on Precision Farming Implementation aspects.

STTP motivated participants to Increase the activities of smart farming through IoT technology which ultimately leads to more development of Agricultural commodities. The STTP provided an outcome beneficial to aid our Indian Agricultural Market especially consortium of Farmers through the knowledge gained by the participants. Dr.M.P.Chitra, Head ECE & Dr.M.Prem Kumar, Prof ECE were coordinated the event.

“Internet Of Things-Training Programme”

IEEE SB PIT in association with IEEE WIE,CSI, ISTE, IETE-ISF, IEEE CS, IAS, IES SBC organized Training Programme on Internet of things during 24.06.19-28.06.19. Multiple Speakers from Infoziant Pvt., Ltd. Chennai conducted the event. The experts shared their insights, real life scenarios, practical use cases and their solutions on The Internet of Things- Hands on Development by introducing participants how to integrate IoT in different applications systems to the Internet, and developed skills for exploiting such integration approach. The labs included: first steps for configuring IoT, how to manage a database, how to develop user applications, how to establish a link between a thing and Internet, and the implementation of applications in the web to control full systems of interconnected things.



“Java-Training Programme”

IEEE SB PIT in association with IEEE WIE, CSI, ISTE, IETE-ISF, IEEE CS, IAS, IES SBC organized Training Programme on JAVA during 24.06.19-28.06.19. Event introduced the participants to Java and educated them about its versatility as a scripting language and its applications. Participants also learned to know Object Oriented features of programming, how to install eclipse and JDK and how to use constructs like inheritance, constructor, polymorphism, data types etc. in programming and followed by hands on session in developing small projects using Java. Event was conducted by the various speakers from Infoziant Pvt.Ltd., Chennai.



“Website Development-Training Programme”

IEEE SB PIT in association with IEEE WIE,CSI, ISTE, IETE-ISF, IEEE CS, IAS, IES SBC organized Training Programme on Website Development during 24.06.19-28.06.19. Event started with Introduction to Website Development and followed by hands on session Students developed their own websites. Event was conducted by the various speakers from One Yes Technologies Pvt., Ltd. Chennai.



“Mobile App Development -Training Programme”

IEEE SB PIT in association with IEEE WIE,CSI, ISTE, IETE-ISF, IEEE CS, IAS, IES SBC organized Training Programme on Website Development during 24.06.19-28.06.19. Event started with Introduction to Mobile App Development and followed by hands on session. Students developed their own Mobile App. Event was conducted by the various speakers from One Yes Technologies Pvt., Ltd. Chennai.



“Workshop On Antenna Fundamentals”

IEEE APS, IEEE SB PIT & Department of ECE in association with IEEE EMC, COMSOC SBC, IETE, ISTE conducted Workshop on Antenna Fundamentals on 24.06.19-25.06.19. The workshop focused to inspire future research, open problems and highlighted the need for piloting with antenna applications, with tangible steps, to understand the configuration of antenna basics and the use of applications across multiple vertical industries.



The speakers of the events were Dr.S.Sathiya Priya, Professor and Mrs.Rajeshwari, Assistant Professor covered the topics like Key benefits of the next generation antenna technologies, Major shift in infrastructure & Problems we face currently, Solution by antenna dislocation, Etc., with hands on session. 36 students participated & benefited. Mr.M.Arun & Mrs.D.Kalaiarasi, Assistant Professor,ECE

“Workshop On Signal Processing Using Matlab”

PIT IEEE SB & Dept. of ECE in association with IEEE WIE, COMSOC, IAS, SP SBC'S, IETE,ISTE organized workshop on Signals & Systems using MATLAB for second year ECE during 24.06.19-25.06.19. The topics covered included: Introduction to MATLAB, Basic operation of Signals & Systems, Sampling its effects, solution to differential equation & difference equation, etc., using MATLAB. In addition, the participants were given hands-on training using MATLAB.



“Workshop On Internet Of Things”

IEEE SB PIT, Department of ECE in association with IEEE WIE, COMSOC, IAS, SP SBC, IETE, ISTE conducted Workshop on IOT during 26.06.19-28.06.19 . The workshop focused to inspire future research, open problems and highlight the need for IOT, with tangible steps, to understand the basic concepts of IOT cloud communication. The speakers of the events were Mr.Sabarinath Premlal, CEO Respro Labs, Chennai. He explained in detail about the basics of IOT with some projects based on IOT with hands on session.



“Workshop On Robotics”

IEEE SB PIT, Department of ECE in association with IEEE RAS, CS, WIE, ISTE, IETE conducted Workshop on Robotics during 26.06.19-28.06.19. The workshop focused on highlighting the need for robotics and automation in upcoming generation, to understand the basic concepts of robotics. Mr.Karthick & Team from Pantech Pro. Edu. Pvt., Ltd, conducted the event. They explained in detail about all the basics and features of robotics with hands on session. Projects like Line follower Robot, Voice controlled robot, Gesture Robot, Wall Climbing Robot, Etc., were done by students. 62 students participated and benefited.



“Guest Lecture On Cloud Technology”

IEEE Computer Society, Computer Society of India & Department of Computer Science and Engineering, Panimalar Institute of Technology organized a Guest Lecture on Cloud Technology by Mr. Balaji Pandurangam, Manager, Gunnebo Asia-Pacific, Singapore for Final year CSE students on 3rd July 2019 in PIT Auditorium. The lecture also consists of evolution of cloud computing, types of cloud computing, public, private and hybrid and how to bifurcate among public, private and hybrid. Speaker also discussed about the open source technology, how innovation takes place in open source technology. The Event is coordinated by Dr.V.Subedha HOD/CSE and Mrs.J.Deepa, Assistant Professor /CSE Department



“Students Technology Awareness Program (STAP)”

Students Technology Awareness Program (STAP) was arranged by IEEE SB in association with IEEE SBC’S & IEEE WIE at Seetha Kingston Matric School, Kilpauk on 5th July 2019. Ms. Kavitha Sri & Ms Harika, IEEE Members of final Year ECE conducted the programme to embolden and inspire school students to encounter real life problems and become successful. They spread social awareness in an interesting and innovative matter. Important Topics like Women Safety and Career Development were discussed with the students. Also they created awareness about IEEE YESIST12 – Junior Einstein track to students and motivated them to participate in it.



“Guest Lecture On Industrial Automation & Robotics”

IEEE SB Panimalar Institute of Technology, Department of Electronics & Communication Engineering in association with IEEE, ISTE, IETE-ISF, IEEE WIE, PES, RAS, IAS SBC'S organized guest lecture on Industrial Automation & Robotics on 5th July 2019. The lecture was delivered Mr. Rajasekaran Desingu, Application Engineer, Axis Global Automation Pvt., Ltd., Chennai. He elaborated about industrial automation and how robotics play a vital role in Industry. About 165 students eagerly attended the lecture Mr. M. Arun, IEEE SBC Counsellor coordinated the event.



“Guest Lecture Programme on Industrial Automation and Robotics”

PIT-IEEE-SB & IEEE PES in association with department of EEE, PIT organized a Guest Lecture Programme titled “Industrial automation and Robotics” on 12.07.2019. Mr. S. Praveen, Business development Engineer from AGIIT gave the lecture about various involvement of robotics in industrial application and why we go for Automation and various topics regarding the lecture went very interactive and the students felt that the lecture was good. Mr. N. Karthikeyan/Assistant Professor/PIT coordinated the event.



“Motivational Talk”

IEEE SB PIT, Dept. of ECE in association with IEEE WIE, CSI, IAS, ITS, ISTE, ISTE, IETE-ISF, organized a motivational talk by Ms. Namratha Prakash, Senior corporate trainer coach-cognizant during 8th July 2019 for students to encourage them for their upcoming placements and to choose their career path in a proper manner so that they can be competitive in the outside world. She also addressed about the recent trends followed and industry expectation to be satisfied by the students. The session was interactive and students came up with more questions so that they were clear to choose their path regarding career. Around 625 students participated and were motivated. Dr. I. Paul Theophilus Rajakumar, Professor & Dean, Placement coordinated the event.



“Seminar On Gate Preparation”

IEEE SB Panimalar Institute of Technology in association with IEEE, PCS, ISTE, IETE-ISF, CSI & Department of ECE organized Seminar on GATE Preparation for III ECE & EEE Students on 11th July 2019. The seminar was addressed by Mr. Syed Saleem, Regional Head, GATE Academy, Chennai & his Team. He spoke about the various opportunities using the GATE scores and also the PSU opportunities. He also told the methods of preparation of the syllabus to be covered so that the exam could be cleared with ease and smart work. About 285 students participated in the event and clarified their doubts. The event was co-ordinated by Mr M Arun Assistant Professor ECE.



“Higher Studies At Abroad”

IEEE SB Panimalar Institute of Technology in association with IEEE WIE, IET, CSI, SAE, ISTE, and IETE-ISF organized Guest lecture on Higher studies at Abroad by Dr.Reshmy, Director, Education Matters, Chennai on 10th July 2019. Speaker elaborated on the opportunities of PG degree at abroad universities, the method of application and the eligibility criteria. She ensured about the importance of PG degree and the job vacancy for the various fields available. She also told about the various competitive exams to be undergone in order to get admissions in the topmost universities.



She spoke about the networking which could be obtained and the practical way of learning methods followed in various countries. About 600 students actively participated and got benefitted through this event.

“Guest Lecture On Placement Opportunities In It Sector”

IEEE SB Panimalar Institute of Technology, IEEE WIE, CSI,IET, ISTE, IETE-ISF organized Guest Lecture on Industry expectation by Dr.K.M. Suceendran, Head Work force excellence, TCS on 11th July 2019. He commenced with companies recruitment methodology like TCS, INFOSYS, etc, and created awareness about various company prospective.



He also specified many programming platforms to work with and importance of coding in recent trends and stressed the students to spend some quality time in coding and aptitude. 600 students participated and benefited. Dr. I. Paul Theophilus Rajakumar, Professor & Dean, Placement coordinated the event.

“IEEE International Project Competition – Prelims YESIST12 – Innovation Challenge”

The IEEE student branch of Panimalar Institute of Technology organized the prelims round of Innovation Challenge Track of YESIST12 2019 with the theme – “PREPARING FOR FUTURE: SUSTAINABLE TRANSFORMATIVE TECHNOLOGIES” on 13- 07-2019. The event started with a welcome note followed by the project Demonstration. The chief guest was Prof. P. Subramanian, Chairman; IEEE COMSOC Madras Chapter evaluated the project. All teams were given ample time to head their demonstration.



A great opportunity was provided to all the budding inventors in our campus. 24 teams participated in the event. During the Valedictory session winners were announced and awarded with cash prize worth Rs.5000. All these memories of YESIST12 were captured and finally ended by a photo session with winners of this successful event. Heartfelt gratitude to all souls who supported this event. Event was coordinated by Mr.M.Arun, Assistant Professor ECE. The winners of the event are: R.Sathish Kumar, B. Praveen, J. Udhaya ,S. Srinivasan of T.J.S Engineering College for their project titled Design And Fabrication of Reverse Gear Mechanism For Handicapped Four Wheeler Vehicle.

“IEEE International Project Competition – Prelims - YESIST12 – Junior Einstein”

The IEEE student branch of Panimalar Institute of Technology organized the prelims round of Junior Einstein Track of YESIST12 2019 with the theme – “PREPARING FOR FUTURE: SUSTAINABLE TRANSFORMATIVE TECHNOLOGIES” on 13- 07-2019. The event started with a welcome note followed by the project Demonstration. The chief guest was Prof.P.Subramanian, Chairman, IEEE COMSOC Madras Chapter evaluated the project. All teams were given ample time to head their demonstration.



A great opportunity was provided to all the budding inventors in our campus. 4 teams participated in the event. During the Valedictory session winners were announced and awarded with cash prize worth Rs.5000. All these memories of YESIST12 were captured and finally ended by a photo session with winners of this successful event. Heartfelt gratitude to all souls who supported this event. Event was coordinated by Mr.M.Arun, Assistant Professor ECE. The winners of the event are: Krishan Shankash Manikandan, Kishore.S, K.S.Sai Harshiyh for their project titled Highway Vertical Axis Wind Turbine for Power Generation.

“Guest Lecture On Placement Preparation”

IEEE SB Panimalar Institute of Technology in association with IEEE WIE, CSI, SAE,IET, ISTE, IETE-ISF organized Guest Lecture on Placement Preparation by Mr. M.S. Balamurugan, CTO, Panimalar Group of Institutions on 18th July 2019. His lecture was about how to frame a Resume, key areas to concentrate, various platform of test, etc.. He elucidated what kind of stuffs should be appended while drafting a resume and gave a clear vision about HR reviews on CV. Around 624 students were participated and benefitted. The event was coordinated by Mr. M. Arun, Assistant Professor, ECE.



“Workshop On Industrial IOT”

Department of Computer Science and Engineering, IEEE Computer Society, Computer Society of India of Panimalar Institute of Technology organized a Workshop on Industrial IoT by Mr.Balajee Naidu, Senior Development Manager in Virtual Techz on 25-07-19. Mr.Balajee Naidu has shared his knowledge about the Industrial IoT represents a variety of IoT applications, smart product design principles, and data-driven automation practices in the industrial sector of economy.



It widely utilizes modern sensor technology to enhance different types of equipment with remote monitoring and maintenance capabilities. The Event is initiated and supported by Dr.V.Subedha HOD/CSE and coordinated by Dr.T.Kalaichelvi Professor /CSE,Mrs.M.Abirami, Mrs.M.Vidhya AP/CSE of CSE Department.

“Workshop On Robotics”

Department of Computer Science and Engineering of Panimalar Institute of Technology in association with IEEE Computer Society & CSI organized Two day workshop on “Robotics” during 26th July 2019 & 27th July 2019. Mr. Nivin Antony (Embedded Developer) and Mr. S. Gowtham (Project Engineer) of Pantech Solutions Pvt., Ltd., Chennai conducted the workshop. Participants learnt about Fundamentals of Arduino, Sensors, Machine Vision, Motor operations and Robot working movements. 57 students of II, III& IV Year CSE participated in this workshop.



“Workshop On Virtual Reality”

IEEE Computer Society, Computer Society of India & Department of Computer Science and Engineering, Panimalar Institute of Technology in association with Edstin Solutions Pvt.Ltd -Chennai, organized a One day Workshop on Virtual Reality held on 27th July 2019. Mr.Stevenson- Director and Mr.Vignesh and Mr. Jagadeesh -Trainers of Edstin Solutions Pvt., Ltd., Chennai conducted the event.



Event focused on Virtual Reality Introduction, Software setting up, Working in Unity Interface, Building 3D Components, Importing 3D files, Importing VR SDK's, Working in VR Cameras and Augmented reality apps. Around 40 students participated in this workshop and main objective of this workshop is to make basic knowledge virtually reality concepts in 3D Gaming, 360 Cinematic effects and virtual education. Mr.Gopinath AP/CSE coordinated the event.

Report By, Er.M.Arun

Rajalakshmi Engineering College

"Internet of Things"

The department of ECE had arranged a guest lecture on "Internet of Things" for second year students on 12.07.2019. The students were given exposure on IoT basic concepts, types of hardware and software employed, protocols used for communication, external device connectivity and hardware details of Raspberry-Pi and Arduino. The students were appreciated by the experts for their keen interest in the topic delivered.



"Design-A-Thon-Project Expo"

IEEE SB REC conducted the project expo on 10.08.2019. Dr. M. Palanivelan, Professor & Head has welcomed the gathering and introduced the guest Mr. S. P. Sandeep, IP Analyst, Bangalore. The guest delivered a lecture on "Intellectual Property Rights". He has enlightened the participants on need and benefits of IPR. The project incubation event "Design-a-thon 2019" provided a platform for the students of various disciplines of REC to showcase their innovative thinking and ability to address socially relevant issues. The exhibits by the young minds were examined under seven different categories by the Juries.



Mr. Eby Sam Stewart, WABCO India Limited, Mr. S. Muhammed Humaid, ZOHO Corporation Ltd., Mr. S. Kannu Pandiyan, L&T Infotech, Mr. Sai Prasad, Vector India Pvt. Ltd., Mr. A. Santhosh, Research Scholar, AU, Mr. Prabhuraj Shanmugham, KCG College of Technology. Finally, Dr. S. N. Murugesan, Principal distributed the prizes to the winners & runners and Dr. T. Manikandan has delivered the vote of thanks.

Report by: Dr.M.Palanivelan

SCAD College of Engineering and Technology, Tirunelveli.

"IEEE International Conference on Trends in Electronics and Informatics (ICOEI 2019)"

The Department of CSE and IEEE student branch of SCAD College of Engineering and Technology organized three days "IEEE International Conference on Trends in Electronics and Informatics (ICOEI 2019)" on 23.04.2019 to 25.04.2019 for UG, PG students, Research Scholars and Faculty members. Keynote speakers were Dr. Golden Julie, Department of CSE, Anna University, Regional campus, Tirunelveli and Dr. Murugeswari, Department of CSE, MS University, Tirunelveli. A total of more than 300 participants attend the event and benefited.

Report by: Prof. P. Ebby Darney, darney.pebby@gmail.com



Sri Eshwar College Of Engineering

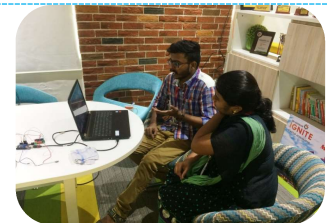
“MAKEATHON – IoT Design Challenge”

IEEE Student Branch and Embedded club of SECE organized “MAKEATHON – IoT Design Challenge” on 25th July 2019. 30 teams (107 students) from various leading institutions were actively participated in the event. Mr.A.Ramesh, AP-ECE Coordinated the event. Mr.Thirumorthy Balasubramanian VP- Product Engineer - Bahwan CyberTek, evaluated the projects and gave the cash prize of Rs, 10000, 5000 and 3000 to the wining team with 2 months internship at Bahwan CyberTek Chennai.



“IEEE Student Project Contest” (26th Apr-2019)

IEEE student member V.S.Arjun (IV ECE-A) and Sharon Richaa of (IV-ECE-C) attended the IEEE Student Project contest 2019 on the topic Helmon through Skype on 26th April 2019.



Sri Sai Ram Engineering College

“Educational Outreach Programme”

The IEEE Computer Society Student Branch Chapter, Sri Sai Ram Engg college organized an “Educational Outreach Programme “on 18th July 2019.2019.The main motive of the program was to notify the 11th standard students with the basics of C programming. The program was organised by Dr.Soma Prathibha, Advisor IEEE –CS SBC. Around 22 students from Sri Sairam Engineering College went there to train the students .The students were provided with kits containing a notepad, file and a pen. The students were divided into groups of 12 and were trained about the basic of C language.



One student were selected from these 12 groups and were conducted a quiz competition which consisted of two rounds. The first round was connectors and it was so exciting for the students followed by the brain storming quiz competition. Later the top five students were selected and were given certificates and prices .It gave a wonderful experiece for the students as well as the trainees.

“Empower yourself in Data Analytics, Artificial Intelligence and Machine Learning”

The IEEE Computer Society Student Branch Chapter organized an “Empower yourself in Data Analytics, Artificial Intelligence and Machine Learning Seminar “on 7th August 2019.2019.The main motive of the seminar was to notify the students with the basics of Data Analytics, AI and ML. The program was organized by Dr. Soma Prathibha , Advisor IEEE –CS SBC. The Chief guest was Mr. Ahamed Khalid – Vice President, Business Head at IMARTICUS Learning.



He also enlightened the students with the advantages of Data Analytics such as improving efficiency, cost reduction, Market understanding, New services / products, Industry Knowledge, Witnessing Opportunities, Faster and better Decision Making strategies. He also gave idea to the students regarding the future of Artificial Intelligence and Machine Learning. The seminar was so informative and interactive.

Sri Sivasubramaniya Nadar College of Engineering

"IEEE YESIST12 Prelims"

IEEE YESIST12 Prelims was organized by SSN IEEE Student Branch at SSN College of Engineering, Chennai on 05 July, 2019. In phase I registration 36 teams submitted their abstracts. The proposals submitted by these teams underwent blind review process and almost 25 teams were shortlisted for Phase II. A total of 13 teams consisting of 44 students from various disciplines participated in this event.

The Jury members Mr. Aravindhan Ponnusamy, Project Architect, CTS, Chennai, Mrs. Kamatchi Kesavan, Project Manager, CTS, Chennai, Dr. R. Srinivasan, Professor, Department of IT, SSN College of Engineering, Dr. I. Joe Louis Paul, Associate Professor, Department of IT, SSN College of Engineering, Dr. S. Karthika, Associate Professor, Department of IT, SSN College of Engineering



The team, Vision Hackers from Sri Venkateswara College of Engineering won the first prize. This event helped the students to network with professionals and enhances their knowledge in their problem domain. 12 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, Associate Professor, IT, SSNCE, and Ms. J. K. Josephine Julina, Assistant Professor, IT, SSNCE.

"Android Application development workshop"

The IEEE EMBS student chapter organized the talk "Think Engineer" on 01 August, 2019. The various session details are as follows:

A brief introduction about IEEE by Raj kumar R, An introduction to IEEE EMBS in SSN by Srija Vaidyanathan, From team TECHDOCS ; Varshini Vinodhkumar, Suhashine S were invited to share their winning experience by developing an NON INVASIVE BLOOD PRESSURE MEASURING MONITOR. Also, From team BIOSES ; Ananya R , Arvindh Swaminathan M B, Jagadesh A S, Kavya V kannan, Kezia Sheron C and Vaishali H were invited and asked to share their experience.



"Inauguration of EMBS Student Chapter"

The IEEE EMBS for this academic year was inaugurated on 17 July, 2019. This event was conducted on the sole purpose to create awareness about IEEE and its various activities. The event was graced by the presence of Dr. A. Kavitha, (HOD Department of BME and Advisor EMBS), Dr. S. Pravinkumar (Associate Professor, BME and Advisor EMBS) and Dr. T. Sree Sharmila (Associate Professor, IT and SSN IEEE Student Branch Counselor). Dr. Pravinkumar delivered the welcome address followed by a deep insight about the IEEE activities at SSN by Dr. T. Sree Sharmila. Mr. Saravana Prakash (SSN BME Alumni) joined the event on a video conference call to share his experiences on being a major part of the EMBS society and how it has helped him to build his career path. The event ended with many students getting interested about IEEE.



“Think Engineer”

The IEEE EMBS student chapter organized the talk “Think Engineer” on 01 August, 2019. The various session details are as follows:

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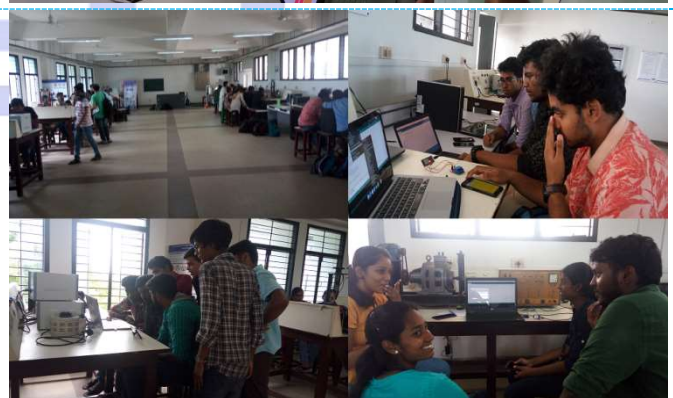
“Design using Adobe Illustrator”

SSN IEEE student branch conducted a one day workshop on vector art and poster designing in collaboration with SSN design club on 6 August, 2019. The workshop was intended to train students in vector art designing on Adobe Illustrator which could be used for designing posters that could improve publicity and reach of events for the community. The workshop was limited to 30 students in order to provide a more intensive learning experience for the participants. Topics related to the software features, color theory, poster design and art style tips were covered during the workshop. The workshop was well received by the participants and many volunteered to join the SSN design team.



“Home automation using Arduino IDE and ESP 32”

SSN IEEE student branch conducted a one day hands-on workshop on Arduino based Home Automation in collaboration with S4S club on 16th August, 2019. 46 students (including II & III year EEE&ECE branches) have been participated in this workshop and get benefitted with hands-on practice too. The sessions were handled by Mr. R. Vignesh, Mr. M. Sakthi Ganesh and Mr. S. Shiram V of IV year EEE students. The faculty coordinators are Dr. R. Ramaprabha & Dr. M. Balaji, Asso. Profs./EEE. The student coordinator is Mr. C. KarthikRajan, SSN IEEE - SB Member.



The hands-on training session includes the basics of ESP 32 microcontroller, Arduino IDE and IoT principles through an application on home automation. The workshop was well received by the participants and technical student volunteers from the EEE department supported the students in understanding the concepts taught during the workshop.

Report By, Dr. T. Sree Sharmila, IEEE SB Counselor, SSNCE.

St. Joseph’s College Of Engineering

“Non-Governmental Organization Visit”

The Non-Governmental Organization visit to “Holy Angles Old Age Homes” at Chennai is focused on improving and providing an insight to the problems our generations face and to inculcate an 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.



“Non-Governmental Organization Visit”

The Non-Governmental Organization visit to “PALACE HOMES” at Chennai on 27/2/2019 is focused on improving and providing an insight to the problems our generations face and to inculcate an 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.



“Non-Governmental Organization Visit”

The Non-Governmental Organization visit to “Dazzling Stone Home For Children” at Chennai on 27/7/2019 is focused on improving and providing an insight to the problems our generations face and to inculcate an 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.



“Industrial Visit To Ennore Power Station”

The Second Year Students from the department of EEE were taken for an Industrial Visit to the Ennore Power Station on the 5th 7th of August 2019. They started by 8:00A.M in the morning headed to the station. Reaching there by 9:30, the students were taken to the station and one of the engineers working at the station was our instructor and Guide. They were taught about the inception of the station and also how it got developed into one of the major power sources of India today. Ennore Thermal Power Station was constructed to serve the purpose of energy generation in the year 1970. It is one of the four major thermal power plants.



Presently it has an installed capacity of 450 MW. The necessary coal arrives through ship .The construction of the 1,000 MW plants (1,300,000 hp) in the premise began in the year 2007. The Station presently consists of two 60-MW and three 110-MW units. A 500-MW coal-based unit was proposed, and its development started in the month of November 2007. The total cost of the venture was 270. The plant was shut down on 31.03.2017 and will be replaced. Then they were explained about the criteria of getting a job at the NLC India Limited. Then they left the station by 3:15. It was a great exposure for the students to visit one of the major power plants of the country.

“TDCS participation”

Students from 3rd year and final year of our college have taken part in this contest.

NUMBER OF TEAMS PARTICIPATED TEAM : 8

These 8 teams consisting of 4 members each visited various schools across Chennai and its surroundings. Categorization included rural and urban schools. The teams took seminar for 8 to 10 grade students. Each seminar was conducted for around 2-3hrs.The topics comprised of: Technologies for Agriculture , Food Processing & Rural development, Technologies for Health care & Medical Diagnosis, Technologies for Education, Sports & Woman welfare, Technologies for Space and National Security, The purpose of the session is to motivate the students to take up higher studies in STEM by giving them a flavour of its benefits in their day-to-day life. It should also be able to boost Confidence, Self-esteem and Aspirational level of girl students to continue studies beyond high school level.

“TECHMERIZE”

The Event “TECHMERIZE” was organized by the student branch chapter of IEEE WIE affinity group on 5th of August 2019. The Event was coordinated by Dr. M. Venmathi, Department of EEE, St. Joseph’s College of Engineering and the participants were the student members of IEEE WIE affinity group from the departments ECE, EEE,EIE,CSC and IT of St. Joseph’s College of Engineering.

Dr. Vydeki Vijaykumar was our chief guest of respect for this event. “TECHMERIZE” comprised of two rounds, after which “PEPTALK” was delivered by our chief guest, which was followed by the issue of certificates to the winners.



“Summit On Smart City, Smart Nation And Smart World-2019”

The summit was organised in association with IEEE – Industry Applications Society and Larsen & Toubro Limited on August 2nd and 3rd 2019. First day consist of three sessions and second day consist of two sessions. The summit was conducted for various colleges all over Tamil Nadu. Totally, 60 students from various Colleges and Industries. The Chief Guest for this Summit is Mr.R.Srinivasan from L & T Construction.

Mr. Srinivasan vice chairman of IEEE IAS Society from L & T construction gave an inspiring speech on recent technologies which could change the conventional methods of administration to a futuristic smarter way.



He started his speech by giving a brief introduction about smart city. He mentioned many completed and on-going projects which were implemented in many Indian cities like Mumbai, Nagpur and in the cities of Odisha, Gujarat etc., His expertise in the subject knowledge impressed the Europeans who called him for knowledge transfer. He emphasised on integration rather than vertical implementation. The smart projects were installed in Nagpur, Mumbai, Bhubaneswar and in Gujarat. A traffic surveillance system using RFID sensors installed in Mumbai helped in finding missing vehicles, children using facial recognition, thus making the city smarter and safer. The project implemented during the kumbh mela festival in Gujarat eliminates the population congestion. His wide experience also did the touch renewable energy sector. The efficiency of wind mill was increased by embedding sensors into the body of the wind mill and continuous monitoring. He also briefed about cloud computing, IOT applications in agriculture and Cybersecurity. Smart meters for cloud computing applications were quoted. The use of optical fibre for many applications was mentioned. Smart solutions for parking and security are implemented at L&T campus. The usage of micro grids which is a budding research field is also included in their projects. After his speech, many excited participants asked questions. The second session was carried out by Mr. Chockalingam and Mr. Arunkumar Palaniappan they spoke about the Smart projects which is developed in Nagpur. The third session was carried out by two research persons. Firstly, Mr. Sankaran spoke about his project developed in Odisha. And Md.Ghouse delivered about the projects and safety measures taken in Delhi. One the first half of the day the six stalls is arranged for participants from six different companies to gather knowledge about the new technologies.

Second day we had two sessions. The first session was carried out by Dr.Paramasivam and continued with second session was handled Dr. S. Mohan. At the end of the second day, the games were conducted to all the participants.

Report by:R.Srinidhi

“Student Development Training Program (SDTP) on Basics course in Antenna design”

The SDTP provides the hands on Training in Antennas simulation software to students of electronics & communication engineering department by Sheriba. T.S. Assistant Professor (S.G), Valliammai Engineering College. This unique antenna design training provides an basic coverage of antenna design and implementation of antenna design using software. These students learned to design mathematically modelling to design the patch antenna and strip antenna. The participants learn the differences between various antenna models, and where each model should be applied in the network design process.



Totally 45 IEEE students, 30 IEEE APS students and 15 IEEE BTS and 1 IEEE staff members attended the workshop. The resource person created knowledge to students, about the details associated with the research from this development program. 12/03/19, 05/03/19, 5/02/19,12/02/19,19/02/18 /Every week Tuesday once. The ECE department staff members were supportive and encouraged the students to discover their passion in basic concepts of microcontrollers.

“Antenna TechGap”

Department of ECE, IEEE APS of St. Joseph’s Institute of Technology conducted a Antenna TechGap on 19.07.2019. The key goal of the event is increase the knowledge regarding the basic antennas. The questions in the round were a blend of basics of antenna working and to name the type of antenna given in pictorial diagram. Amongst 30 participants, three were shortlisted as winners.



“NGO visit”

Department of ECE, IEEE EMBS of St. Joseph’s Institute of Technology organized an NGO visit on 22.06.2019. The primary objective is to meet the physical, mental, emotional and spiritual needs of orphaned and/or destitute children by providing them with love, care, nourishment, guidance. The orphanage had at most 30 students, and we gave them wheat flour, oil, soaps etc. for 5000 rupees.



“Industrial Visit to NARL (National Atmospheric Research Laboratory)”

IEEE EMBS society of St. Joseph’s Institute of Technology conducted an Industrial Visit to NARL (National Atmospheric Research Laboratory), Tirupati. The key goal of the event was to increase the importance of the antenna section among the students for doing the initialize research. The reason behind this is that it lets student to know things practically through interaction, working methods and employment practices.



Moreover, it gives exposure from academic point of view. The main aim of this Industrial Visit was to provide an exposure to students about practical working environment. NARL is involved in technology department, observations, data archival, dissemination, assimilation and modelling.

Report by, Dr. Gnaa Kousalya C, Member Number: 93842267

Three Days Workshop on 'Design, Optimization & Analysis of Electrical Machines'

IEEE Sponsored Three Days Workshop on 'Design, Optimization & Analysis of Electrical Machines' on 8th & 10th May 2019 was conducted by the Department of Electrical and Electronics Engineering in association with IEEE Students Branch, Power and Energy Society and Industrial Electronics Society. The workshop was graced by Dr. B. Babu Manoharan, Chairman; Mrs. B. Jessie Priya, Managing Director; Mr. B. ShashiSekar, Director; Dr. P. Ravichandran, Principal and Dr. D. Kirubakaran, HoD/EEE.



The resource person for the workshop was Dr. Ganesh Nagarajan, Comstar Automotive Technologies Pvt. Ltd., Chennai. Around 48 participants were attended the workshop including students and faculty members from various engineering colleges.

Distinguished Lecture on "Electric Vehicle"

The Distinguished Lecture on "Electric Vehicle" by Dr. Sheldon S Williamson, Professor, University of Ontario-Institute of Technology, Canada, was organized by the Department of Electrical and Electronics Engineering in association with IEEE Students Branch, Power and Energy Society. It was inaugurated in the presence of Dr. P. Ravichandran, Principal, St. Joseph's Institute of Technology; Dr. Vaddi Seshagiri Rao, Principal & Dr. B. Parvathavarthini, Dean, St. Joseph's College of Engineering.



The presentation has been focused on the current status and future opportunities within transportation electrification and electric energy storage systems. The presentation also includes: Electric energy storage systems, Smart charging infrastructures, E-mobility/mass transit electrification, Electric machines and motor drives.

Report by, Dr. A. Ramesh Kumar- Student Branch Counselor

Thiagarajar College of Engineering, Madurai

"One Day Workshop On Recent Trends In Microwave Electronics For Defence Applications"

One day Workshop on "Recent Trends in Microwave Electronics for Defence Applications" sponsored by TEQIP was organized by IEEE Microwave Theory and Techniques Society Madras Chapter, IEEE Antennas and Propagation Society Madras Chapter in association With TEQIP, Thiagarajar College of Engineering, Madurai on Friday, March 22, 2019 for the benefits of young faculty, researchers and students to pursue their research in the area of Avionics and navigation systems. The workshop was conducted by Electronics and communication engineering department of Thiagarajar College of Engineering, Madurai. The workshop was organized to cover the concept of high power microwave applications and the design of photo conductive antennas for millimeter (mm) wave and THz applications and Radar applications.



The workshop also covered the concept of materials for microwave applications. The workshop received an overwhelming response with 17 participants from various Engineering colleges. The workshop was inaugurated on 22nd March, 2019 by Dr. G Satheesh Reddy, Scientific Advisor to Raksha Mantri & chairman DRDO, Government of India, Principal, Thiagarajar College of Engineering, Dr. V. Abhaikumar also an IEEE MTT Society chapter chairman under IEEE Madras section and Dr. (Mrs). Raju, Professor, ECE Department and Dean (III). In the inaugural speech, Chief Guest Dr. G Satheesh Reddy shared the challenges for microwave applications in defence applications for researchers. He also

addressed on few upcoming activities and research in the area of designing of antennas for radar applications. Eminent speakers from various industries and Institution delivered lectures during the workshop. The workshop covered the entire topics of microwave electronics and its applications in defence area with a lucid explanation of the basic concepts and showing motivating videos about antennas they designed for various defence applications.

The objective of the Programme was to enhance the academic and intellectual environment in the Institutions by providing participants with enough opportunities to update their research and pedagogical skills and hence pursue research and also to participate in seminars / conferences / workshops.

“ECE Association and Professional Society (IEEE) Activities”

In the academic year 2018-19, ECE Association and Professional Society (IEEE) events were held on March 18, 2019. The following events were conducted:

1. Coding Competition: In this event, five problem statements were given. Students can code in any language. Discussions for all the problems were given at the end and gave awareness about the type of questions asked in Placement.
2. Paper Presentation: This is a team event. Students can choose any topic of their interest and need to present the paper. This improves their Presentation skills. This will help them to provide an idea for the publication of IEEE Paper.



3. Hardware Project: This is a team event. Students can select the problem from Smart India Hackathon Problem Statements and are supposed to provide a prototype for their solution. This will be helpful for their Project.

4. Software Project: The objective of this team event is to enhance their Coding skills by providing a solution for the existing problem by using any Software tools.

“Techsav 2019”

Techsav is the national level technical fest organized by Thiagarajar College of Engineering, Madurai every year. This year Tecuthsav-2019 was organised on the theme INDUSTRY 4.0 by all the departments. Department of Electronics and Communication conducted Tecuthsav on 29th March, 2019. Workshops and events were organized by our department on the theme Industry 4.0.

Mr. Visweswaran Jagadeesan, Territory Manager – Academic Programs (South) of National Instruments, India had kindly consented to be the chief guest of Tecuthsav ECE Inaugural function. He had given the keynote address on Industry 4.0. Students from various colleges had come to TCE to celebrate Engineering.



Dr. V. Abhaikumar, Principal TCE had delivered a presidential address. Dr. S.J. Thiruvengdam, HOD, ECE welcome the gathering. Mr. Visweswaran Jagadeesan, Territory Manager – Academic Programs (South) of National Instruments, India handled Industrial IoT workshop. Dr K Hariharan, Associate Professor, Dept of ECE of Thiagarajar college of Engineering handled Open Source Hardware and Software workshop today. Papyrus, a paper presentation event had been conducted. Themes for the Papyrus – Smart Communication, Robotics and drones, Bio medical and health care, Security and surveillance, Smart vehicles. Newer the idea, newest the style of presentation, higher the chance of being hero on stage. Little Tesla, the project display event had been organised. Innovation is critical to grow than wealth creation in our country. Little Tesla is for the engineering enthusiast to come forward and present their ideas on electronics to ignite the young brains. The events Bugtronics and Techathlon tested students in their theoretical and practical knowledge of Engineering domain and help them know where they stand.

Mr. M. Thirumalai Kumar, Portfolio Development Manager, of Siemens PLM Software had kindly consented to be the chief guest of Valedictory function. Student General Secretary of ECE department had read ECE yearly activities report. Chief guest had distributed prizes for all winners.

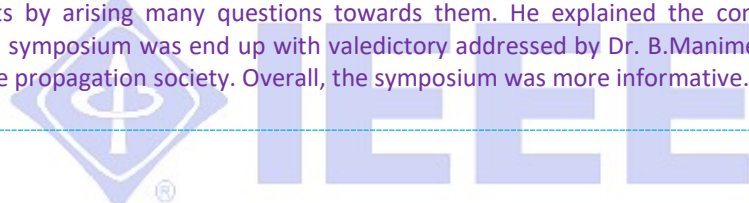
“IEEE Madras Section Symposium Cluster 3 Report”

IEEE MADRAS SECTION SYMPOSIUM on CLUSTER-3 (IEEE MAS-SYMP-CL-3) held at Thiagarajar College of Engineering (TCE) among various IEEE Societies (Such as MTT, IT, ComSoc) by 9th March 2019 as a part of IEEE student branch activities in TCE organized by IEEE Madras section along with TCE. The goal of this program is to ensure the growth of skills and knowledge among professionals and to foster individual commitment to continuing education among the IEEE members, the Engineering and scientific community and the general public.



The participants of this one day event were the students, student members of IEEE, Research scholars and faculty members from various colleges numbering about 51 members. At the inaugural session, Chief Guest Dr. V. Abhaikumar, Principal, Thiagarajar College of Engineering and Chair, IEEE Microwave theory and Techniques Society, IEEE Madras section, delivered the presidential address. Mr. Rajendran Venkataramasubbu, CEO, Adroit Soft India Private Ltd, Chennai took part in the inaugural session along with Prof D Vijendra Babu, Vice Principal, Aarupadai Veedu Institute of Technology, Chennai.

The first inspirational session on Block Chain Architecture was delivered by Mr.Rajendran Venkataramasubbu. The next session was on Cloud based repository for snapping document taken by Dr.Padmavathi. The session was very detailed one, starting from the basics (what are data centers, cloud etc.,). The real demonstration given by the staff was interesting. Then the session on 5G communications began. Dr. Vijendra Babu, was the speaker gave more information about 5G. The next interactive session handled by Dr.Mrs.Raju who had discussed about antennas in 5G, the advantages and real live problems in the design part of antenna in 5G. The last session was on the topic, Wireless radios for IoT applications handled by Dr.Deepak Ramprasath, Vice President R&D, Thiagarajar Telecom Solutions, Madurai. He had stimulated the students by arising many questions towards them. He explained the concept of IoT with real life applications. Finally the symposium was end up with valedictory addressed by Dr. B.Manimegalai, Professor, Member, IEEE Antennas and wave propagation society. Overall, the symposium was more informative.



Vaigai College of Engineering, Madurai

“Intelligent Computing and Control Systems (ICCS) 2019”

The IEEE student branch of Vaigai College Engineering (VCE) organized three days “Third International Conference on Intelligent Computing and Control Systems (ICICCS 2019)” during 15.05.2019 to 17.05.2019 for UG, PG students, Research Scholars and Faculty members. Keynote speaker was Dr. D. Nirmal, Chair-IEEE ED Coimbatore Chapter, Associate Professor, Department of Electronics and Communication, Karunya University, Coimbatore, Tamil Nadu, India. A total of more than 200 participants attend the event and benefited.

Report by: Mr. P. Sugumar,



Valliammai Engineering College

“Faculty Development Programme (FDP)”

The Department of EEE and IEEE Valliammai Student branch conducted Six days Faculty Development Programme on the subject of “EE8301-Electrical Machines-I” on 06th to 11th May 2019. In first day the two sessions was presented by Dr.G.Srinivasan, Associate Professor /EEE, Head of the Dept-S&H, Tagore Engineering College, Chennai. The Second day the Forenoon session presented by Mr.V.Sudhagar, Asst. Prof(Sr.G) /EEE, Valliammai Engineering College, Chennai. The Second day the Afternoon session presented by Mr.S.Balaji, Asst. Prof(O.G) /EEE, Valliammai Engineering College, Chennai. The Third day the two sessions presented by Dr.R.Arivalahan, Associate Professor / EEE, Valliammai Engineering College, Chennai.



The Fourth day the two sessions presented by Mr.P.RajaKumar, Associate Professor / EEE, Sri Sairam Engineering College, Chennai. The Fifth day the two sessions presented by Ms.S.Sivarajeswari, Assistant Professor / EEE, Sri Sairam Institute of Technology, Chennai. The Sixth day of FDP we visited the M&H Progressive Skills Pvt. Ltd, PK18 - Phase V, Guindy Industrial Estate, Ekkattuthangal, Chennai-600 032 as an Industrial Visit related to Electrical Machines-I. The FDP was attended by faculty members of various colleges along with Head of the Department Prof. Dr.K.Elango.



IEEE MAS Membership details

<i>Affiliate</i>	<i>14</i>
<i>Associate Member</i>	<i>36</i>
<i>Fellow</i>	<i>5</i>
<i>Graduate Student Member</i>	<i>596</i>
<i>Life Member</i>	<i>7</i>
<i>Life Senior Member</i>	<i>13</i>
<i>Member</i>	<i>1234</i>
<i>Senior Member</i>	<i>240</i>
<i>Student Member</i>	<i>3724</i>
	<i>5869</i>

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