

Industria

Annual Edition

*2nd IEEE International Conference on Power,
Instrumentation, Control and Computing (PICC2018)*

**Innovation For Flood
Affected People**

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NEWSLETTER 2018



**IA/IE/PELS Jt. Chapter
IEEE Kerala Section**



Newsletter 2018 Team

Chief Editor - Vishnu Vijay Pillai

Chief Designer - Hari Prasad

Support Team

Andreas Shaji

Riya Susan George

Akhilesh Vishnu

Contents

Messages

Section Execom

UST Global Coding Competetion

F2F

AKIASSC 2019

Events of 2018

Membership Statistics

List of Student Branch Chapters

Student Execom

Industria
NEWSLETTER 2018

Messages



Prof Muhammed Kasim S
Chair - IA/IE/PELS Jt. Chapter
Kerala Section

"In the name of God, "Almighty", I am immensely pleased that the IA/IE/PELS Jt. Chapter Kerala is bringing out the first ever News letter of annual activities of the jt. Chapter. I take this opportunity to sincerely congratulate the 2019 student execom of the Jt. Chapter for this noble venture. In Kerala, we are very active with 25 IAS SB chapters, 5 PELS SB Chapters & 1 IES SB Chapters. In 2018, 7 new IAS SB Chapters & 3 new PELS Chapters were got approved. Our membership count is also very high in R-10 (Asia-Pacific countries). We aim to start more SB chapters and increase our membership & activities. The Jt. Chapter aims to emerge as one of the outstanding Chapters across the Globe. Let us work together to attain the goal."

"I feel very glad to be a part of the team leading our IAS, IES and PELS joint Kerala chapter. We are indeed very proud to publish the first newsletter of Kerala Chapter. This year is very special being marked by the large number of activities under the regime of these three societies. The students team has been very supportive and outstanding. I wish success to each and every member of the team."

Dr. K Bijuna
Vice Chair
IA/IE/PELS Jt. Chapter
Kerala Section





"I feel very happy to have a newsletter for our IA/IE/PELS Joint chapter. Feeling proud to be a part of it. I congratulate the newsletter team for bringing the newsletter in a very short time. Hope the newsletter will help to communicate the activities of the chapter to its members more effectively. Best wishes to the newsletter and its future editions."

Mr. Biju K

Vice Chair

IA/IE/PELS Jt. Chapter

Kerala Section



"On the outset of 10th anniversary celebration of the IE/IA/PEL society Joint Chapter of Kerala, I am happy to get involved in the volunteering activities. It gives me immense pleasure, pride and honour to be a part of this society chapter. I wish all success to all the activities of the chapter and wish everyone happy volunteering."

Mr. Srikanth Vasudevan

IAS CMD Chapters and

Membership Chair & Area Chair

Chapter Execom



Prof. Muhammad Kasim S
Chair IA/IE/PELS
Jt. Chapter Kerala Section



Dr. K. Bijuna
Vice Chair IA/IE/PELS
Jt. Chapter Kerala Section



Mr. Biju K
Secretary IA/IE/PELS
Jt. Chapter Kerala Section



Mr. Srikanth Vasudevan
IAS CMD Chapters and
Membership Chair & Area Chair



Er. C M Varghese
Chair-Industry Relations



Dr. Jaison Mathew
Chair-Conference Activities



Dr. R Sudharshan Kaarthik
Chair-Research



Dr. P. Jayaprakash
Chair-Projects



Mr. Prabin James
DLP Coordinator



Mr. Athul M V
Chair-Industry Institute
Interaction



Dr. Pinkymol K P
Chair-Membership
Development



Dr. Vasanthi V
Representative-Malabar
Subsection



Mr. Jithin K Jose
Representative-Kochi
Subsection



Mr. Thomas Sabu
Representative-Young
Professionals



Mrs. Sabeena K
WIE Coordinator



Mr. Anandhu S Kumar
Coordinator-Student
Branch Chapters

Student Branch Chapter Activities 2018



Coding Competetion for IEEE Student Members

The Coding Contest Finals jointly organized by IEEE IA/IE/PELS Kerala Jt. Chapter and UST Global's Trivandrum was held on 01.09.2018. The event was monitored and coordinated by Prof. Mohammed Kasim (IEEE IA/IE/PELS Jt. Chapter Kerala Chair) & Prof. Bijuna Kunju (IEEE IA/IE/PELS Jt. Chapter Kerala Vice Chair). Registrations were invited from students of 3rd and 4th year IEEE Members. 127+ Technical enthusiasts had registered for the first round. The first-round was conducted in 6 venues across Kerala. Based on their performance, 10 students were shortlisted for the Finals. The Final round was conducted on 1st October 2018 at UST Global Kerala HQ, Kazhakkuttam, Thiruvananthapuram. The students were directed to find solutions for open questions and had to develop a mobile application to solve this. The competition started at 10.00 AM and ended at 1.00 PM. The finalists developed different mobile applications within 3 hrs. UST Global arranged a Campus tour for the participants to seize the experience of the industry and their working environment. They were introduced to the latest working applications such as VR, AR, MR and related projects, introduction to Quantum computing, UST Infinity Lab and its working, new innovations etc. The idea and demo presentation started at 2.30 PM. The three experts from UST Global evaluated the idea and demo of the applications. The judges appreciated the striking ideas and the effective apps which are developed. Praveen Raj from Rajagiri School of Engineering bagged the first position. The top 3 finalists were offered placement in UST Global. All other finalists gained an opportunity to intern at UST Global. The industrial experts Mrs. Shilpa Menon and Mr. Varghese Cherian quoted about the event and the future edition of the same. The event concluded at 6.30 PM. **Later Four more Students were offered employment in UST Global totalling the placement to seven.**



The winners of UST Global Coding Contest 2018

F2F & ExeCom meeting



Face to Face meeting and ExeCom meeting of IEEE IA/IE/PELS Jt. Chapter Kerala Section was conducted on 25th March 2018 at Kollam. The meeting was conducted in a houseboat. The meeting started at 10 AM with a silent prayer. It was followed by a self-introduction of the participants. Prof. Muhammed Kasim (Chairman, IEEE IA/IE/PELS Jt. Chapter Kerala Section) welcomed the gathering. It was followed by a tea break. Secretary of IEEE IA/IE/PELS Jt. Chapter Kerala Section, Mr. Biju K, presented the activity report for the year 2017- 2018 to date. The Chairs/ Advisors of the IEEE IAS Student Branch Chapters presented their activity report and plan of activities. After that, a discussion on 'Vision plan 2018' for IA/IE/PELS Jt. Chapter Kerala Section was conducted. A lot of ideas were turned up in the discussions, and ideas were formulated into action plans. It was followed by a lunch break at 1.30 PM. ExeCom meeting of the chapter was conducted after the lunch break. The ExeCom discussed the various activities to be conducted in the year 2018 in the light of the deliberations on 'Vision plan 2018' and finalized a few activities to be conducted in the year 2018. The highlight of the discussions was to organize a biennial International conference in the area of Power Electronics and related Renewable Energy. The time for the conduct of the conference was tentatively decided as December 2019. Dr. Jaison Mathew (Chair Conference activities, IEEE IA/IE/PELS Jt. Chapter Kerala Section) was entrusted to prepare a proposal to be submitted to IEEE Kerala Section and IEEE Industry Applications Society for technical sponsorship. After the ExeCom meeting, officer training for SB chapter office bearers was conducted. The session emphasized the need for events scheduling and reporting through vTools event reporting system. Tea was also served in the middle. A total of 24 Members attended the meeting. The meeting concluded at 4.30 PM and a group photo was taken at the end.



The IEEE IA/ IE/ PELS Jt chapter in association with NSS College of engineering, Palakkad will be conducting the All Kerala Industrial applications society student conclave on 8th, 9th and 10th of February. The three day program that provides the students an opportunity to network with experts and explore internships includes an industrial visit, field trip and workshops. AKIASSC and its impact on engineering students has been an overwhelming journey throughout the years.

AKIASSC '19 provides a grand platform for the young minds to enhance their technical skills and knowledge. It delivers them an opportunity to mould their innovative ideas and to polish them into reality. AKIASSC, through the various workshops being conducted as a part of the program introduces trending technical ideas into the students, so that they get familiarised with the vast changing technical world. Apart from technical areas, students are also presented with sessions that concentrate on managerial topics. The aim of managerial sessions is to boost up the communication skills and leadership qualities of young engineers. Interactive sessions with experts from various fields enables the budding innovators to broaden their ideas and visions. The field trips and industrial visits will provide a great exposure to the students to experience engineering from the practical side. It will be an effective opportunity for them to witness large scale industrial operations and equipments. The program, all together focuses on the overall development of an engineer, from the personal and professional aspect.



EVENTS OF 2018

2nd IEEE International Conference on Power, Instrumentation, Control and Computing (PICC2018)

The second international conference was conducted at Government Engineering College Thrissur from 18th to 20th of January 2018. The conference was organized as a part of the fifth biennial International Conference on 'Emerging Trends in Engineering Science and Technology' (ICETEST 2018). The PICC2018 had technical sponsorship from IEEE Industry Applications Society (IEEE IAS) and IEEE Kerala Section. A total of 181 papers were submitted from all over the world, from which 85 were selected for presentation at the event after rigorous reviewing.



Inauguration Ceremony

Inauguration of IEEE IAS SB Chapter and Workshop on Electrical and Mechanical Plumbing at JECC

The inauguration of the IEEE IAS SB Chapter and workshop on electrical and mechanical plumbing occurred on 2nd February 2018 with great joy and enthusiasm at Jyothi Engineering College, Thrissur. The most distinguished Er. S. Jaya Krishnan had graced the occasion as the

chief guest along with several dignitaries from the college. The event had knowledge seeking IEEE members with a count exceeding 50 and 32 final year students from EEE department joined the workshop.



Inauguration of IEEE IAS SB Chapter at Jyothi Engineering College, Thrissur

Interactive session at Jyothi Engineering College Thrissur

The event was coordinated by the IEEE IAS SB Chapter in association with the EEE, EC and CS departments of the college on 10th February 2018. The session was led by the most prominent Dr. Malka N. Halgamuge (University of Melbourne, Australia). The students seized the opportunity to clear their doubts and increase the knowledge on current trends in the field of technology.



Interactive session

Membership development drive at Bishop Jerome Institute Kollam

In order to re-embrace the IEEE SB which was inactive for the past two years, a membership development drive was organized as a part of the membership development initiative of IEEE IA/IE/PELS Jt. Chapter of Kerala Section, with support from the EEE Dept. of the college on 10th February 2018. The drive made nearly 35 members join IEEE from a gathering of 41 non-IEEE members.



Membership development drive Science Day Celebrations at CEK

The science day celebration at College of Engineering Karunagappally was organised by the IEEE SB CEK and IEEE IAS SB Chapter CEK during 1st and 2nd of March 2018. The science day was conducted with great consideration of the contribution of the world of science to our society. Talks were done by the senior IEEE members of the college based on the IEEE Spectrum magazine along with a quiz competition to sharpen up the curiosity to the world of

knowledge for the 65 freshers, who took part in the celebrations.

ELEKTRA 2018

The three-day long technology summit was held at College of Engineering Munnar from 2nd to 4th March 2018. The event was coordinated by Dept. of EEE in association with IEEE PES and IAS SB Chapters. The event had many talks, interactive sessions, workshops, games and much more. The idea was to make the students reach out to the world of technology through total fun and enjoyment. The event gathered 110 delegates from various colleges across Kerala.



ELEKTRA Team

International Women's Day Celebrations at Musaliar College

The women's day celebrations were planned and held at Musaliar College of Engineering on 8th March 2018 under the auspices of IEEE IA/IE/PELS Jt. Chapter. The event highlighted the role of Women Engineers in the field of academic, science and engineering, research and home affairs. New programs to make women understand their real position in the world were made up in the event. A total of 33 students participated in the event.



International Women's Day Celebrations at Musiliar college

Women's Day Celebration at CEK

As a part of women's day celebrations, the IEEE SB and IEEE IAS SB Chapter of CEK in association with IEEE WIE AG conducted a two-day long event on 8th and 9th of March 2018. The event had talks on the topic 'Health and personal hygiene' and conducted a quiz in order to make the students aware about the situations faced by the women in the world. The event gathered around 60 students and the WIE Kit was distributed to all the IEEE Members.



Women's Day Celebration at CEK

Workshop on IoT

With the joint coordination of IEEE IA/IE/-PELS Jt. Chapter of Kerala Section along with IEDC unit of Musaliar College of Engineering conducted a workshop on IoT during 9th and 11th of March 2018. The idea behind the event was to have a workshop with 80 per cent hands-on training so as to create a more deeply grounded knowledge on IoT. A total of 45 students from different departments participated in the workshop.



Workshop on IoT

Talk on 'Ant-colony and Bee-colony Optimization Techniques'

To make the students to understand the real advancements that happening in the field of agricultural technologies and the advancements that can be derived from these agricultural practices and nature around them, the IEEE PES and IAS SB Chapters of Saintgits College of Engineering coordinately organized a talk on 'ant-colony and bee-colony optimization techniques' on 17th March 2018. More than 48 students participated in the event.

Workshop on Advanced Robotics



Workshop on Advanced Robotics

As part of the 'Look into the future' initiative of IEEE IAS SB Chapter ASET, a workshop on 'Advanced Robotics' was conducted on 17th March 2018, as part of Brahma 2018. The event also included a talk on AI and other developing fields that would revolutionize the field of technology in the near future. More than 25 students participated in the workshop.

Workshop on Raspberry Pi



Workshop on Raspberry Pi

On 18th March 2018, a workshop on 'Exploring IoT with Raspberry Pi' at College of Engineering Attingal was organized by IEEE IA/IE/PELS Jt. Chapter Kerala Section in association with IEEE IAS SB Chapter College of Engineering Attingal. The event took the world of IoT to a new

dimension of Raspberry Pi for the students. They were greatly accepted and enjoyed by the 31 students that took part in the event.

Workshop on Ethical Hacking

The IEEE SB CEK in association with IEEE IAS SB Chapter conducted a workshop on 'Ethical Hacking' during 22nd and 23rd March 2018. The workshop was conducted to enhance the young ignited minds. The workshop was focused to create a knowledge to the students about the need of hacking and its norms to be followed along with concentrating in increasing the practical knowledge of the delegates in handling Kali Linux. The workshop had a strength of 25 delegates.



Workshop on Ethical Hacking

IEEE IAS SB Chapter Inauguration and Technical Talk at NSSCE Palakkad

The NSS College of Engineering inaugurated the IEEE IAS SB Chapter on 27th March 2018. Along with the inaugural function, a technical talk was also organized on 'Power system operation and generation'. The technical talk was delivered by Er. Shine Sebastian, Assistant Engineer KSEB. The event had a crowd of count 118.



IEEE IAS SB Chapter Inauguration at NSSCE Palakkad

Talk on 'In-Vehicle Networking for EV Technology'

The IEEE IAS SB Chapter IIST organized a talk on 'In-Vehicle Networking for EV Technology' on 11th April 2018. Mr. Sigi C. Joseph started the seminar talk by giving a brief introduction about the organization C-DAC and its current research activities in the field of power electronics. The talk was followed by an interactive session for the participants. Total 45 participants including students and professors attended the program.



Talk on 'In-Vehicle Networking for EV Technology'

Distinguished Lecture and Inauguration of IEEE IAS Student Branch Chapter IIST

An IEEE-IAS Distinguished Lecture and the official inauguration of IEEE Industry Applications Society Student Branch Chapter at the Indian Institute of Space Science and Technology (IIST) was held on 14th May 2018 at Aerospace Block (D4), IIST campus. The Distinguished lecture was delivered by Dr. Akshay Kumar Rathore on Impulse Commutated Frequency Modulated Soft-switching Current-fed Converters.



Inauguration of IEEE IAS Student Branch Chapter IIST

EE ISQIP

A week-long training programme to all the Electrical & Electronics Engineering students was organized from July 10th to July 16th, 2018 under the banner of IEEE Industry Applications Society Student Branch Chapter College of Engineering Chengannur, offering both technical and managerial session for the overall development of the students. A total of 40 students participated in the mega event. This Event also received the IEEE Kerala Section award for Best Event of 2018.



EE ISQIP

Industrial Visit

The IA/IE/PELS Jt. Chapter Kerala Section and IEEE IAS SB Chapter Musaliar Engineering College jointly organized an Industrial Visit to Travancore Titanium Products Ltd, Thiruvananthapuram on 11th July 2018. The Engineers of the company thoroughly explained the operations of the company. A total of 56 students and 3 faculty members participated in the IV.



Industrial Visit

Workshop at BOSCH REXROTH

The IEEE IAS SB Chapter CEC in association with IEEE IMS SB Chapter CEC conducted a two-day workshop on 'Hydraulic and Pneumatic Circuitry' and 'Programmable Logic Controllers' at BOSCH Rexroth Centre of Excellence in Automation Technologies on 11th and 12th July, 2018. A total of 30 students participated in the workshop.

Workshop on 'Making LED Bulb'

As the part of the inauguration ceremony of IMC (Incubation and Maintenance Center) at UKFCET, the IEEE IAS SB Chapter in association with IEDC unit of UKFCET and Dept. OF EEE of UKFCET conducted a two-day workshop on making of 9W LED bulb on 24th and 25th of July, 2018. Making LED Bulb was a hands-on workshop which aimed at enhancing the technical knowledge of students, as well as enable them to assemble and repair the LED bulbs. The partici-



Workshop on 'Making LED Bulb'

Faculty Development Programme at UKFCET



Faculty Development Programme

The IEEE IAS SB Chapter and Dept. of EEE of UKFCET coordinately organized a two-day faculty development programme on 'Power system Lab (Stimulation and Hardware)' on 3rd and 4th of August, 2018. This programme was a

combination of theoretical exercise and laboratory experiments at High Voltage Engineering Lab. This FDP aimed to provide opportunities to faculty members to enrich their technical knowledge in Power System Lab.

SIGAI: Class on Introduction to AI

SIG AI was introduced as a combined endeavour of IEEE IAS SB Chapter and IEDC unit of TKMCE. It was introduced to let the students understand the new opportunities in AI and IoT and give them more insight into the concepts and ideas of machine learning. The class was conducted on 6th August 2018 with a total participation of 40 members.



Class on Introduction to AI

SIGAI: Class on Introduction to AI

On 9th August 2018, the IEEE IAS SB TKMCE in coordination with the IEDC unit of TKMCE kicked off its activities for the 2018-19 tenure with its most prestigious projects so far, the Special Interest Group (SIG) program. The event resulted in a huge turnout in showcasing the enthusiasm of the 91 students who took part in the event.

One Time Mobile Charger For Flood Affected People

During the 18th and 20th of August, 2018, the students of Jyothi Engineering college gathered up to create a one-time mobile charger for the flood-affected people of Nelliampathy, Chengannur and Cochin region. A total of 30 students participated in the making of the chargers. The college management and IEEE IAS SB Chapter supported the work to finish it at the earliest. The work was appreciated by the IEEE IAS delegates from the head office at USA.



One Time Mobile Charger For Flood Affected People

Emergency lanterns and chargers for Kerala Flood Relief Camps

The IEEE IAS SB Chapter of NSSCE during the flood that struck the state of Kerala had generated an idea of creating emergency lanterns and chargers for the use of the people who are being taken to the relief camps across the state. The students created 1200 emergency lanterns and 50 chargers within a short period of time.

Talk on 'Entrepreneurship and Innovation : Students need of the hour'

IEEE IAS SB Chapter IIST organized an expert talk on the topic 'Entrepreneurship and Innovation: Students need of the hour' on 12th September 2018. The expert talk has been set up aiming the students who are interested in start-ups and research careers. The talk was delivered by Dr. G. S. Javed, a Design Manager with 10+ years of experience in Analog IC design, layout and characterization. A total of 37 students attended the talk.



Talk at IAS SB IIST

Debate Competition Vimal Jyothi Engineering College

On 12th September 2018, a debate competition on the topic 'Is fast developing technology affecting the ethics and morality of our society' was held by IEEE IAS SB Chapter Vimal Jyothi Engineering College.

Several teams participated in this competition. The aim of the competition was to improve the language skills of the stu-



Debate Competition at Vimal Jyothi

Orientation Program at College of Engineering Karunagappally

The IEEE SB CEK in association with IEEE IAS SB Chapter CEK decided to conduct an orientation class on 'IEEE for first-year students' on 19th September 2018. The program began with an ice-breaking session. A total of 74 students took part in the event. The event created a positive attitude from students in joining the IEEE community.



Technical Topic Presentation competition ' INNOVATE' at Vimal Jyothi Engineering College

As part of the celebration of Engineer's Day, the IEEE SB VJEC in coordination with IEEE IAS SB Chapter VJEC conducted a technical topic presentation competition called 'INNOVATE' on 26th September 2018. The aim of the competition was to improve the speaking skills along with a platform to present their innovative idea. A total of 20 participants took part in the event.



INNOVATE at Vimal Jyothi

Workshop on 'PCB Design using KiCAD'

The IEEE SB IIST in association with IEEE IAS SB Chapter IIST organized a workshop on KiCad software for making PCB layout on 27th September 2018. The workshop aimed at bringing students to get familiarized with PCB Layout making tool KiCad that can be used in future

projects. It also included a hands-on session on KiCad Software. A total of 16 participants took part in the workshop.



PCB Designing using KiCAD

Quiz Competition By Musaliar Engineering College Chirayinkeezhu

A quiz competition was organized by IEEE SB MCEC in coordination with IEEE IA/IE/PELS Jt. Chapter on 28th September 2018 as part of IEEE day celebrations. Along with the quiz competition, a seminar on the topic 'Road map to Success' was done. The quiz competition secured a crowd of more than 600 students from 12 different schools. The final round of the competition was held on 2nd October 2018.



Inauguration of the IEEE IAS SB Chapter at UKFCET

On 28th September 2018, a new IEEE IAS SB Chapter inauguration occurred at UKFCET. The creation lead to securing of two milestones for the chapter, which include '400th IAS Chapter in the world' and '50th IAS SB Chapter in India'. The chief guest was Prof. Muhammed Kasim, Chair of IAS/IES/PELS Jt. Chapter Kerala Session. The meeting was crowded with energetic students.



Inauguration of IAS SB Chapter

Workshop on 'Characterization and Control of DC Drives' at IIST

As part of celebrating the IEEE Day, the IEEE SB IIST in association with IEEE IAS SB Chapter IIST conducted a workshop on the topic 'Characterization and Control of DC Drives' on 2nd October 2018. The workshop began with a briefing about the importance of IEEE in the context of IEEE Day. A total of 31 students participated in the workshop.



Workshop at IIST

Quiz Competition 'TECH-Q' at Saintgits College of Engineering

On 2nd October 2018, the IEEE IAS SB Chapter conducted a technical quiz competition called 'Tech-Q' as part of IEEE Day celebrations. A total of 49 students participated from various departments of the college. The questions were included from aptitude, technical and general category. The aim was to make the students understand the importance of IEEE Day and values that IEEE tries to generate in you.



Quiz Competition 'TECH-Q'

IEEE Kerala Section SDLP (Section Distinguished Lecture Program)

The IEEE SB CEK and IEEE SB Chapters of CEK jointly conducted an SDLP on VLSI and Design on 5th October 2018. The session was handled by Dr. Sreelal S Pillai. A talk from such an esteemed person gave the students a huge knowledge. The positive reviews from the part of the students really made it stand out.



IEEE Kerala Section SDLP

Debate contest at NSSCE

As part of IEEE Day celebration, the IEEE SB NSSCE and IEEE IAS SB Chapter coordinately conducted a debate competition on the topic 'Should section 377 of IPC be removed from the constitution and decriminalized in India?' on 6th October 2018. The main aim of the competition, apart from improving the speaking skills, was to make the students be more aware of what's happening around them other than the books they learn.

A total of 14 participants took part in the competition.



Debate Contest at NSSCE

SIGIoT : Introduction to Embedded System using Arduino.

Internet of Things is expanding at a rapid rate and it is important for both students and young professionals to know what it is and how it works. In order to put some light into it, the IEEE IAS SB Chapter TKMCE conducted a session on SIG IoT on 7th October 2018. The class gave them an insight into IoT and its concepts. A total of 38 students participated in the session.



SIGIoT at TKMCE

SIGAI: Class on Data Preprocessing in Machine Learning

On 8th October 2018, the IEEE IAS SB Chapter TKMCE conducted the second session of SIG AI. The session introduced the students to the statistical approach of exploratory data analysis for summarizing data. The session made the students reach a new level of understanding AI. The session was attended by more than 50 students.



SIGAI at TKMCE

Awareness talk on Higher Studies Abroad

An awareness talk was organized by Centre for International Relationship Cell of EEE department in association with IEEE PES and IEEE IAS SB Chapters Saintgits College of Engineering on 11th October 2018. The session was handled by Ms. Flaby Mathews, Regional Manager, Santa Monica Study Abroad Pvt Ltd.

The talk was conducted in order to provide the final year students with an insight into the educational world outside their college walls.



Awareness Talk at Saint Gits College

ENCRYPTA 1.0

During 11th and 12th October 2018, the IEEE SB NSSCE along with IEEE IAS SB Chapter conducted the very first coding competition ENCRYPTA 1.0 in the journey of IEEE SB NSSCE. The main objective of the programme was to improve the coding skills of the students and spread the spark of IEEE Day. More than 25 students participated in the competition.



ENCRYPTA 1.0

Arduino Hackathon

As part of the IEEE Day celebration, the IEEE SB College of Engineering Attingal in association with IEEE IAS SB Chapter College of Engineering Attingal had conducted a 12 hour Arduino Hackathon Competition on 13th October 2018. The competition comprised of 3 rounds. A total of 19 students participated in the competition.



Arduino Hackathon

Industrial Visit to VSSC Space Museum

The IEEE IA/IE/PELS Jt. Chapter Kerala Section and IEEE IAS SB Chapter Musaliar College of Engineering jointly organized the Industrial Visit to VSSC Space Museum on 20th October 2018. The visit gave a lot of knowledge regarding the different stages of the development of launch vehicle technology in India from SLV, ASLV, PSLV and GSLV. A total of 51 students took part in the Industrial Visit.



First General Body Meeting at TKMCE

The IEEE SB Chapter of TKMCE hosted its first general body meeting of 2018-2019 on 26th October 2018. The main Agenda of the meeting was to lay out and discuss objectives and future plans for IAS SBC, to introduce upcoming activities and to review ongoing IAS initiatives. The meeting was attended by 32 students.



Workshop on Resume Writing and Profile Building

A workshop on 'Resume writing and profile building' was organized by IETE Students Forum TKMCE in association with IEEE IAS SB Chapter TKMCE on 7th November 2018. The aim of the workshop was to introduce the students to the proper way of representing themselves in a resume and help them achieve a state where they are not rejected by a poor resume. The workshop was attended by 64 students.



Workshop on Resume Writing

Seminar on Opportunities Abroad

On 8th November 2018, the IEEE IAS SB Chapter VJEC organized a seminar on opportunities abroad. The seminar was conducted by Santa Monica. The session comprised of the stay back policies and government scholarships offered by different countries. A total of more than 60 students attended the session.



Seminar on Opportunities Abroad

Seminar on Computer Vision

The IEEE IAS SB Chapter VJEC conducted a seminar on the topic 'Computer Vision' on 9th November 2018. The talk comprised of the importance of learning this topic and emphasized the importance of related topics like Machine Learning and Artificial Intelligence. The students' doubts about the future scope of this topic were cleared. A total of 35 students attended the session.

Bluetooth Roborace

On 14th November 2018, the IEEE IAS SB Chapter TKMCE and IEDC unit TKMCE coordinately a Bluetooth controlled robotic vehicles racing competition known as the 'Bluetooth Roborace'. The knowledge achieved by the students from the SIG for IoT And AI enabled them to achieve a spot in this competition. A total of 15 teams participated in the competition.



Inauguration of IEEE PELS SB Chapter

On 15th November 2018, the inauguration of IEEE PELS SB NSSCE Chapter took place. This chapter is the first PELS chapter in Kerala Section. A session based on the 'History of Power Electronics' was done. This inauguration created a history in the journey of the IEEE SB NSSCE. The function was attended by more than 75 students.



Inauguration of IEEE PELS SB Chapter

Talk on 'Power Electronics for a Renewable rich Grid-Applications and Challenges'

The IEEE IAS SB Chapter IIST organized an expert talk on the topic 'Power Electronics for a Renewable rich Grid-Applications and Challenges' on 17th December 2018. The talk delivered the aspects of solar and wind energy power systems for reducing the carbon footprint and discussed the Modular Multilevel Converter (MMC) based converter topologies used for utility. The talk also covered the challenges the utility might face with the rising penetration of renewables. A total of 20 participants attended the program.



Renewable rich Grid-Applications and Challenges

Talk on 'Power Electronic Applications – From Electrified Transportation to High Energy Physics'

On 17th December 2018, the IEEE IAS SB Chapter IIST organized a talk on the topic 'Power electronics applications- from electrified transportation to high energy physics'. The talk summarized ideas and results from four different projects covering diverse application areas of power electronic systems. The talk was followed by an interactive session with the audience. A total of 20 participants attended the program.



Applications – From Electrified Transportation to High Energy Physics

Future Activities



Technically and financially cosponsored by
IEEE Industry Applications Society
IEEE Kerala Section
IAS/IES/PELS Joint Chapter Kerala Section

DATE : 02-04 JANUARY 2020
VENUE : LE MERIDIEN, COCHIN
PLACE : KERALA, INDIA

Important Dates

Paper Submission opens : 1 July 2019

Notification of Acceptance : 1 October 2019

Final Camera-ready Paper : 1 November 2019

Weblink: <https://ia.ie.pels.ieeeekerala.org/pesgre2020>

Extended versions of all accepted and presented papers will be considered for possible publication in IEEE Transactions on Industry Applications.

Conference Theme: The conference theme is "Power electronics and renewable energy for sustainable development". The Conference focuses on the latest technologies, strategies and challenges that are faced by power electronic systems, Electric drives, Renewable energy resources and the interconnection to modern power systems, and the operation in the smart grid environment for a better, smarter and more environment-friendly power system.

Focus Areas: Power electronic converters and control systems, Smart grid technology, Renewable energy resources, Distributed generation and Grid interconnection, Electric vehicles, Energy storage & battery charging techniques, FACTS & Custom power, Power quality & EMI, Microgrid & Smart grid, Energy policies & Standards, Wide band gap devices, Lighting technology, and Power electronic education.

Student Branch Chapters

IAS CHAPTERS

1. ADI SHANKARA INSTITUTE OF ENGINEERING AND TECHNOLOGY, KALADY
2. COLLEGE OF ENGINEERING, MUNNAR
3. COLLEGE OF ENGINEERING , CHENGANNUR
4. COLLEGE OF ENGINEERING, ATTINGAL
5. COLLEGE OF ENGINEERING, KARUNAGAPPALLY
6. COLLEGE OF ENGINEERING, TRIVANDRUM
7. GOVERNMENT ENGINEERING COLLEGE, THRISSUR
8. GOVERNMENT ENGINEERING COLLEGE, KANNUR
9. INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY
10. JYOTHI ENGINEERING COLLEGE
11. MAR ATHANASIOS COLLEGE OF ENGINEERING, KOTHAMANGALAM
12. MEA ENGINEERING COLLEGE , PERINTHALMANNA
13. MUSALIAR COLLEGE OF ENGINEERING, CHIRAYINKEEZHU
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IES CHAPTERS

1. VIMAL JYOTHI ENGINEERING COLLEGE

Student Execom



Mr. Nebic J Johnson
Student Coordinator



Mr. Abhinav R
Student Coordinator-
Malabar Hub



Mr. Hari Prasad
Student Coordinator-
Travancore Hub



Ms. Laya Rajendran
WIE Coordinator-
Travancore Hub



Ms. Athira M
WIE Coordinator



Mr. Sarath Chandran M
Electronic Communication
Coordinator



Mr. Vishnu Vijay Pillai
News Letter Editor



Mr. Akhilesh Vishnu T I
Design Lead



Mr. Geen Geo
Design Support



Mr. Akshay Krishnan
Webmaster



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Designed and Edited by IA/IE/PELS Jt. Chapter Kerala Section

