

Kammavari Sangham® 1952

K. S. INSTITUTE OF TECHNOLOGY

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MAY 2019 VOLUME 4

KSIT IEEE STB

- PRESENTS -

MOMENTUM

Department of Electronics and Communication Engineering









There have been many ways of learning for a professional to excel in his chosen field. A few of them could be identified as listening to people from the field, doing things on our own, field visits, exploring new frontiers through seminars and conferences and any other academic engagement. These avenues for learning is what the IEEE opens up in an institution and the student chapter of IEEE that is very active at KSIT have ventured into these modes of learning and have done very well. The list of activities that have been organized by this vibrant student chapter is very impressive and I am sure that all the members have had a great deal of learning. I sincerely appreciate the efforts of the students in making this happen here at KSIT and congratulate all of them for the wonderful learning they have had at this chapter. I wish each and every student member a great deal of success in their professional as well as personal life that makes them complete and very successful citizens wherever they are.



I congratulate the IEEE KSIT SB along with WIE Affinity group releasing 4th volume of IEEE Magazine "MOMENTUM"

This magazine reflects on what we have achieved, learnt and learning. I am proud to say that our student branch conducted so many Humanitarian and Technical events

I encourage the entire team to keep up the excellent work and take our college name to greater heights

My Best wishes to the entire team!

Dr T V Govindraju Principal IEEE KSIT Director



IEEE KSIT STB Humanitarian Event – AASARE

IEEE KSIT Student branch started the activities by conducting a Humanitarian event "AASARE" on 22nd July, 2018 - A visit to the orphanage. The IEEE members visited "Karnataka Anatha Makkala Abhivrudhi Samasthe" an orphanage for physically handicapped & underprivileged children. AASARE started with collecting the funds from the Management, Principal and Faculties of KSIT who rendered their support by contributing books, toys, stationery and in cash. The students of KSIT too played a vital role in the contribution. The money collected was spent on purchasing stationery products such as books, paints, colour pencils, crayons. It was a great experience for



INDUCTION PROGRAM

KSIT conducted their orientation day on 11th August, 2018 welcoming its budding engineers.IEEE STB tried to heartly indulge and strech their hands in including the freshers into IEEE. The current Execom of IEEE KSIT both the STB members and BRANCH CHAIR MR.SANTOSH KUMAR shared their experiences in IEEE and made the students aware of the importance of IEEE. The Execom explained about all the technical and non-technical events conducted in favor of the students. The freshers were motivated in learning more about IEEE and were overwhelmed in joining the IEEE family



FUND RAISING FOR FLOODS IN COORG AND KERALA

In July 2018, severe flood affected the Indian state Kerala, due to unusual high rainfall during the monsoon season. IEEE KSIT Student Branch in collaboration with NSS took an initiative in raising funds for Kerala and Coorg flood affected people. It was a two day campaign where the IEEE and NSS members collected funds from the students of KSIT. A positive response was received and the funds raised were handed over to the Chief Minister Relief fund which was used for the benefit of flood affected people.

PROGRAMMING & LOGIC SKILLS

A technical workshop on Programming & Logical skills was conducted for the students in order to build their resumes at the time of placements. The resource person was Dr Joyprabhakaran. The students were enthusiastic, keen on learning and upgrading their skills. The workshop was being conducted from 14th August, 2018 for the 3rd year students & from 21st August, 2018 for the 4th year students. The course started with a basic introduction of the C language & activities were conducted for the students to help them learn better. The outcomes of the course was also conveyed to the student.



EXECOM MEET

A Execom meet was held where the Chair, Vice-Chair, Secretaries, Deputy Secretaries, Treasures and Deputy Treasures of both IEEE KSIT SB and WIE Affinity. Group attended the meeting. The main agenda of the meeting was to discuss and plan the events for the even semester 2019. Even the IEEE Execom Faculty members attended the meeting

TALK ON WOMEN EMPOWERMENT

The first event of WIE affinity group in association with AHSC commitee was conducted on 3rd september 2018, a talk on "Nuture the future & empower the adolesent girls". The main aim of the event was to enlighten young girls with the importance of good health & building right career. This event was held in assosiation with the Lion's club. Dr.Hemavathi Srinivasan was the speaker and she shared her knowledge about how to maintain good health. The first year girls attended this event and they were made aware regarding various health issues faced by adolescent girls & preventive measures for the same. This interactive session inspired young girls to have strong aim and work towards achieving their goals. This encouraged the girls in building their career with self respect & taught them to be independent





WORKSHOPS CONDUCTED Windows Particular Particular



WORKSHOP ON SELF DEFENCE DEM-ONSTRATIONS

WIE KSIT conducted their second event on 3rd September 2018,a Workshop on "Self Defence" for the first year girl students. The event was conducted in association with Combat Studies. The main aim of this event was to teach the young girls about self protection regardless of their physical strength. Dr.Ritesh Reddy & team trained the young girls with simple defense techniques & encouraged the girls to stand up for their rights.

STUDENT BRANCH MEETING

A Student Branch meet was held where 60 IEEE Members attended the meeting. All the new Execom members were introduced to the Student Branch. The main agenda of the meeting was to interact with all the IEEE Members of KSIT and to discuss about the upcoming events. A Technical quiz competition was organized by the Execom members. All the members actively participated in the quiz and goodies were distributed to the winners and runners. There was a discussion about all the upcoming events of the year and valuable suggestion were collected from the students. We also planned to celebrate IEEE Day .

INDUSTRIAL VISIT TO NAL

IEEE KSIT SB conducted the third event for the year 2018-2019 – A Industrial Visit to NAL [National Aerospace Laboratories], Kodihalli Campus on 28th September. The Industrial Visit to NAL was arranged for all the IEEE members of first and final year students. A total of 69 IEEE members along with 3 Faculties visited NAL.Mr. A. Somanarayanan, In-charge, Visits ,KTMD CSIR-NAL was the resource person who guided the student IEEE Members in NAL.

INDUSTRIAL VISIT TO NAL

IEEE KSIT SB conducted the third event for the year 2018-2019 - A Industrial Visit to NAL [National Aerospace Laboratories], Kodihalli Campus on 26th September. The Industrial Visit to NAL was arranged for the second year IEEE members. A total of 95 IEEE member and Non IEEE Members along with 2 Faculties visited NAL. The students visited the different sectors. The first sector was 0.6 Trisonic wind Tunnel which deals with real time testing of space vehicles in terms of mach number. The first tunnel and second tunnel was manufactured in the year 1965 which was a 0.3 mach number tunnel and 1967 which was 0.2-4 mach number tunnel. The motions required to the test the aircraft/space vehicles are generated inside the tunnel. The second sector was Acoustic Test Facility [ATF]. ATF is a national test facility for acoustic environment qualification testing of satellites, launch vehicles stages and their subsystems and can provide acoustic qualification services for sensitive and space bound hardware. The 1100 cu.m. reverberation chamber with a height of 13m, 100%reflection and 0% absorption is designed by NAL. The Students were guided about how acoustic facility simulates, the fluctuating sound pressure field experienced by the payload/launch vehicle during lift off and atmospheric flight in a reverberation chamber.



POSTER PRESENTATION

WIE KSIT Affinity Group along with IEEE KSIT conducted a poster presentation event as a part of IEEE Day celebration on 3rd October 2018. To remark the importance of women, the topic for the poster presentation was "Women as Leader, Innovator." 12 teams from various colleges & departments participated & successfully putforth their ideas by presenting their posters. Dr. Fatima Jabeen, Principal, Islamiah Institute of Technology, Bangalore was invited as the judge for the occasion . The Guest shared her precious time in keenly observing the various ideas put forth by the participants like about how to empower women, uplifting of women, showcasing the contributions, sacrifices made by women and selected the 2 best posters which were awarded. It was indeed a feast to witness various ideas, concepts & the glorification of women as leaders & innovators as implemented by the participants



INTER COLLEGIATE MINI - PROJECT EXHIBITION

IEEE KSIT SB conducted Inter Collegiate Mini Project Exhibition on IEEE Day October 3rd , 2018. The IEEE student branch celebrates IEEE day every year. This year a mini project exhibition competition was conducted. The judge for Mini Project Exhibition was Dr.M.J.Shanthi Prasad ,an IEEE Senior member since 4 years. He was responsible for activating the IEEE Student branches at BIT,DSCE and KSIT. In the project exhibition contest 18 teams took part and made it a grand success. The participants were from KSIT as well as different colleges. Each team consisted of 3 members. The students actively participated in the event by exhibiting the prototypes of their projects. Among all the projects Robotic Arm using Arduino , Home Automation System were selected as the best projects and the participants were awarded.





IEEE DAY CELEBRATIONS 2018-2019

IEEE KSIT along with WIE KSIT affinity group celebrated the most awaited "IEEE Day " on 3rd October, 2018. During the first session there was Inter-collegiate Mini Project Exhibition organized by IEEE KSIT SB and Inter-Collegiate Poster Presentation organized by WIE KSIT affinity group. The Day began with the Mini Project Exhibition and parallely Poster Presentation. The participants were from KSIT as well as different colleges. The participants displayed the working prototypes of their project and displayed there posters during poster presentation competition. The judge for the Mini Project Exhibition was Dr.M.J.Shanthi Prasad, an IEEE Senior member since 4 years. He was responsible for activating IEEE Student branches at BIT,DSCE and KSIT. The session started with an invocation song ,followed by lighting of lamp and welcome speech. It was continued by launching the official IEEE KSIT website and distribution of certificates and goodies to Faculties, Winners and Best volunteers. The Day ended with cake cutting and felicitating the chief guest.



IEEE KSIT student branch conducted a humanitarian event on occasion of IEEE DAY on 11th October 2018 –A visit to old age home. The IEEE members visited "Jeevan Sandhya Ashram" a home for senior citizens. 12 IEEE members & other fellow students reached "Jeevan Sandhya Ashram" & solemnly engaged themselves in service of the senior citizens. All the events planned were successfully executed & elders enjoyed their time interacting with the student members. The members taught them the importance and value of trending technology. AASARE started with purchasing of fruits for the old age home. The elders shared their past experiences & guided students to lead a successful life. It was a great experience for all the members.



TECHNICAL TALK ON "MICROWAVE AMPLIFIERS & ITS RESEARCH ISSUES"

IEEE KSIT SB Organized a Technical Talk on "MICRO-WAVE AMPLIFIERS & ITS RESEARCH ISSUES" on 2nd November, 2018. The Speaker was Dr. B.T.Venkatesh Murthy who is currently working as a Assistant Professsor, E&C Dept in SIT College, Tumkur. . He holds a Doctorate degree in the area of RF & Microwave Circuit Design. This Technical Talk was organized for the 7th Semester Students. The main objective behind organizing a technical talk was to make the students aware about the Research Issues related to Microwave Amplifiers. The speaker addressed the students about the topics such as Research Issues related to Microwave Amplifier, Stability of Amplifier, Low Noise Amplifier[LNA], Stub Matching, Cas-



DENTAL AWARENESS AND FREE SCREENING CAMP

IEEE KSIT student branch in collaboration with NSS KSIT conducted "Dental Awareness Camp" on 3rd November 2018. The main objective of this event was to provide good oral health to the fellow KSIT members. 300 students along with staff members actively participated in this event. The dentists of Partha's Dental Clinic diagnosed oral problems of the students & provided beneficiary advices to the students regarding their oral health. 15 IEEE & 20 NSS volunteers served as a helping hand to the doctors by assisting them in the service.





FACULTY DEVELOPMENT PROGRAMME ON "ASPECTS OF EFFECTIVE PROGRAMMING AND RESEARCH

A three day FDP from 16th to 18th January 2019, was inaugurated by Dr. K.V.A. Balaji, CEO, K S Group of Institutions, Dr. B K Raghavendra, HOD, Dept. of CSE, KSSEM and Dr. Vijayalakshmi Akella, HOD, Dept. of Civil Engineering, KSSEM. Dr. Joy P Prabhakaran, the Key Resource Person, K S Group of Institutions, discussed the aspects of programming using C. Second, Key Resource Person was Dr. Ram P Rustagi, K S Group of Institutions, discussed the basics of Machine Learning (ML). He discussed the meaning, scope and applications of Machine Learning. The various concepts such as Learning categories – Supervised, Unsupervised, Reinforced learning, Applications of ML, Classification vs Re-



WOMEN'S DAYCELEBRATION

WIE KSIT affinity group along with IEEE KSIT SB celebrated international women's day on 8th march, 2019. Women's day is an international celebration of women's achievements in various fields and a call for gender party. It's a way of telling the world about women's struggle for equality, that every one has to be treated equally. The theme for international women's day 2019 is "BALANCE FOR BETTER". The chief guest was Ms.Purnima Nambiar, who is the founder and CEO of Trimtab intervention and guest of honour was Mr s. C.Saraswathi Nagarajan who is a system engineering consultant, UG academy, both gave a speech on women empowerment and her importance in various fields for the young minds. Further it was followed by cake cutting celebration. The day ended with distribution of sweets to all WIE members to mark the celebration. We sincerely thank KSIT for giving us an opportunity to celebrate international women's day and making it a grand success.

AASARE-5K MARATHON

IEEE KSIT SB in association with NSS KSIT conducted its first ever 5K Marathon on 1st March 2019. The main agenda of the run was to create awareness to the society about the education of the underprivileged children and hence the theme unfolds to be "We Run, You Learn"- A run for the underprivileged. 200 students along with faculties from various colleges & departments reached KSIT at 6:00 am and successfully marked their presence by supporting the social cause and by participating in the 5K Marathon from KSIT to Turahalli forest. 50 IEEE and NSS volunteers supported the event by rendering their humungous service in the success of the event. AASARE started with collecting funds from the Management, Principal, Faculties and Students of KSIT who rendered their support by contrib-



TECHNICAL TALK ON "ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING-INDUSTRY TRENDS"

IEEE KSIT SB in association with ISTE organized a Technical Talk on "Artificial Intelligence and Machine Learning-Industry Trends" on 20th February , 2019. The Speaker was Abhilash Manu , Al Automation Lead for Products- Industry Innovation Hub , ACCENTURE. He holds a Master degree in the area of Sustainable Development. This Technical talk was arranged for 8th semester students. The main objective behind organizing a technical talk was to make the students aware about the latest industrial trends in the field of Artificial Intelligence and Machine Learning which are the booming topics in the current technology.



OFFICE BEARERS



Our journey as IEEE Execom members over the past year was really amazing. We all learnt how to take up the responsibilities by working as a team. The Staff Execom provided enormous support and guidance because of which we were able to successfully conduct various technical and non technical events. Overall, our one year journey as IEEE Office Bearers was of a great experience as we got numerous opportunities to learn new things. We wish all the very best to the new Execom group and hope they would take the SB to greater heights.

-Signing off, Student office bearers 2018-2019

OFFICE BEARERS

It is with much joy and anticipation that we celebrate the launch of IEEE KSIT newsletter every year. IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity. As a branch counselor, I have witnessed the growth of the branch from small to medium and student's interest and enthusias m to explore the engineering world and to my opinion IEEE is the best platform to guide and satisfy them. At KSIT, IEEE student branch along with WiE (Women in Engineering) affinity group is formed with the guest of achieving our technical and professional goals with IEEE's mission and vision. And most importantly encourage our students to contribute to real world problems by using the plethora of resources provided by IEEE. The student branch organized various technical activities like workshops in popular areas, distinguished lectures, technical events and many more. The student members of our branch have done excellent job with highest order of energy and interest. Hope to move on with the same pace with more sharp edge towards excellence and wider reach. I look forward to the energy and verve—for which our branch is known for. I heartily invite you all to extend your support and join us in all the activities related to IEEE at our KSIT student branch and contribute to better humanity.

> JAYASUDHA B S K Branch counselor

