



Kammavari Sangham (R) - 1952

K.S.INSTITUTE OF TECHNOLOGY



(NAAC Accredited, Affiliated to VTU, Belagavi & Recognized by AICTE, New Delhi)

#14, Raghuvanahalli, Kanakapura Road, Bangalore 560109

Tel: 080 - 28435723 Email: Principal@ksit.edu.in Web: www.ksit.edu.in

*Advancing Technology
for Humanity*



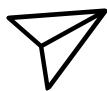
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IEEE KSIT SB PRESENTS



ieee_ksit
VOL - 5, 2020

MOMENTUM



IEEE
BANGALORE SECTION



Kammavari Sangham
Institute of Technology
(KSIT), BANGALORE



Lord, make me an instrument of your peace

Where there is hatred, let me sow love

Where there is injury, pardon

Where there is doubt, faith

Where there is despair, hope

Where there is darkness, light

And where there is sadness, joy



O Divine Master, grant that I may

Not so much seek to be consoled as to console

To be understood, as to understand

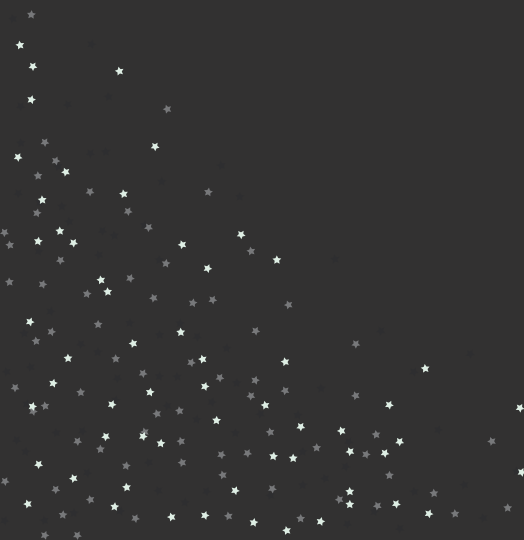
To be loved, as to love

For it is in giving that we receive

And it's in pardoning that we are pardoned

And it's in dying that we are born to Eternal Life

Amen



INDEX



Message from CEO	01
Message from Principal	02
Message from Branch Counselor	03
Message from Student Chair	04
About the Student Branch	05
Achievements	06
Events	11
EXECOM	19
Milestones	21
Magazine Committee	25



MESSAGE FROM CEO



Dr. K.V.A. BALAJI
CEO, KSGI



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 hap-pen 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.



MESSAGE FROM PRINCIPAL



Dr. T V GOVINDARAJU Principal **IEEE KSIT DIRECTOR**

“ I congratulate the IEEE KSIT -SB along with WIE Entity group releasing 5th 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! ”

MESSAGE FROM BRANCH COUNSELLOR



JAYASUDHA B S K

**Branch Counsellor,
IEEE KSIT SB
Secretary,
Women in Engineering
IEEE Bangalore Section**

“ Hope you and your loved ones are faring well as the effects of covid-19 continue to ripple throughout the world.

It is with much joy and anticipation that we celebrate the launch of IEEE newsletter. 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 students interest and enthusiasm 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 and signal Processing society is formed with the quest 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.

IEEE KSIT SB is keeping wonderfully busy and our virtual events are abundant. Signal processing society virtual inauguration, IEEE day celebrations with poster making, quiz and Ideathon contests, webinars and many more virtual events reached many members and non-members. 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 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.

Wish you continued health and safety ”

MESSAGE FROM STUDENT CHAIR



KETAN KESHAV

**STUDENT CHAIR,
IEEE KSIT SB**

SCR, IEEE TEMS INDIA

Section Lead, IEEEEXTREME

MSR 1, IEEE Bangalore Section

SAC member, IEEE Bangalore Section



Hey,

Hope each of you are blossoming, holding on to any shred of optimism and persistently making the effort to spread positivity omnidirectionally in these unprecedented times. All of this will pass soon, but till then "Heal the world, make it a better place, for you and for me and the entire human-race "

These are indeed trying times, but remember that, "Happiness can be found in the darkest of times if one only remembers to turn on the light"

I sincerely like to thank you all for continuing your association with IEEE KSIT Student Branch. It is because of your contributions and efforts, that we have been able to win soo many awards since the past few years. Thanks to the efforts of all the Volunteers, today we are one of most influential Student Branches across IEEE Bangalore Section with over 2100+ and counting followers on our Social Media handles.

I take this opportunity to bring to light, what an immense pleasure it has been to be a part of IEEE KSIT SB for 4 colorful years. My final year in the SB here has been an absolute delight, serving as the Student Chair at this dynamic Student Branch, with my team and the teachers who have been so supportive. This post that I have been given has definitely made a transforming impact in recognizing my Leadership skills. I am honored and privileged to have served as the Chair for the term 2019-2020.

We won the Best Small Student Branch award back in 2018 and our Branch Counselor won the Best Branch Counselor award in AGM 2020. Keeping these in mind and going ahead, I hope we win many more awards this year for our Student Branch and in the years to come.

I'm positive that the legacy will continue.

Cheers to the incoming Batch of 2021. Passing on the baton of responsibility, wishing you a fantabulous year ahead.

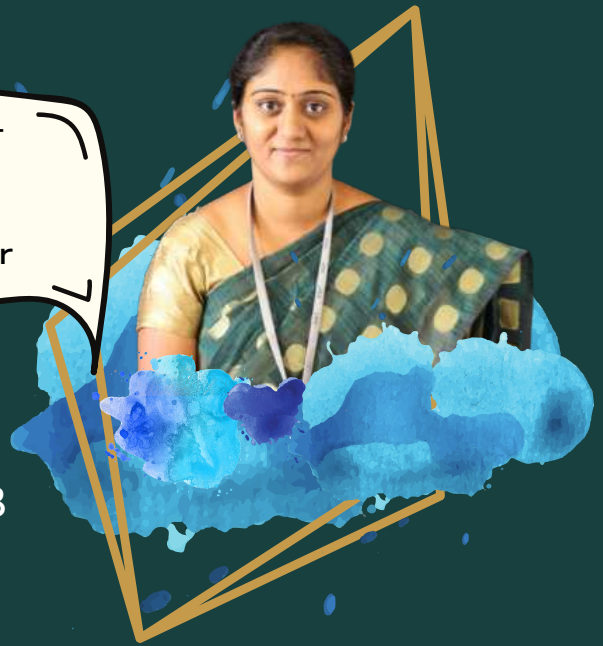
Let's make IEEE KSIT Great Again !!! 



The IEEE Student Branch was inaugurated in KSIT in the year 2002. The branch aspires to enrich the students of KSIT with the latest developments in various fields of technology and research developments. IEEE KSIT SB along with its WIE Entity and IEEE KSIT SPS conduct various technical and semi-technical events to ensure that the students' competency levels are enhanced to meet the required standards in today's industry. IEEE KSIT strives to invigorate the experience of organization and participation in the students through events that are conducted through the year. INNOVACEEEA is the Mega event conducted by the student branch having participants from various colleges. IEEE KSIT along with its WIE Entity conducted a 5K MARATHON with the theme "We Run, You Learn" in the year 2019 which had 200 plus participants. The SB also conducted an online programming challenge in the year 2020 "CODE\n WIN 1.0" which had about 500 participants.

“ABOUT THE STUDENT BRANCH”

Mrs. Jaysudha BSK - Branch Counselor , IEEE KSIT has been elected as the WIE Secretary in WIE Bangalore Section and was also awarded as the Best Small Student Branch Counselor for the year 2019-2020



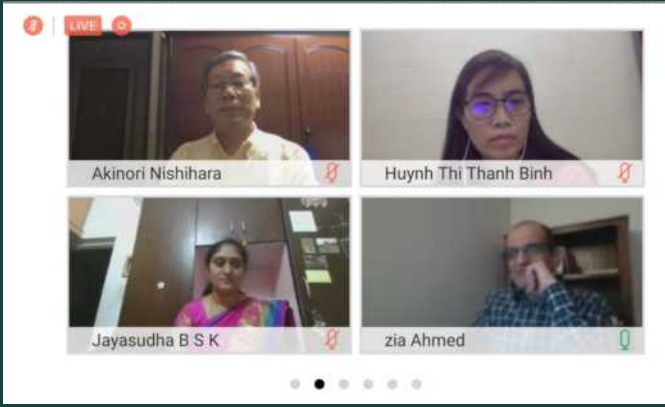
Mrs. Jayasudha B S K
BRANCH COUNSELOR, IEEE KSIT SB

ACHIEVEMENTS



Mr Ketan Keshav, Student Chair, IEEE KSIT SB and SAC Chairman, KSIT has been chosen as Section Chapter Representative (SCR) at IEEE TEMS India, he is also chosen as the MDC Student Representative (MSR 1) for IEEE Bangalore Section and is also the Section Lead for IEEE Xtreme 14.0. He was the Public Relations and Promotions Coordinator for Students Activities Committee (SAC) , IEEE Bangalore Section for the year 2018-2019.

Mr. Ketan Keshav
STUDENT CHAIR, IEEE KSIT SB



R10 SYWL CONGRESS



Ms Jayasudha B S K,
 Secretary, WIE
 represented WIE
 Bangalore section in
 R10 SYWL congress
 in poster
 presentation of the
 activities conducted
 in Student activities
 and WIE Coordination
 contest and won first
 prize in section WIE
 AG category.

Student Chair,
Mr Ketan Keshav was an
 Invited Speaker at
 Christ University where
 he briefed the Students
 on IEEE and spoke in large
 on the MDC Committee
 that he is a Representative
 for Bangalore Section



TALK @
CHRIST
 UNIVERSITY

IEEE Women in Engineering International Leadership Summits (WIE ILS 2019) provided regional opportunities to foster networking, mentorship and possible collaboration. This program is part of the portfolio of global initiatives that focus on Empowerment, Entrepreneurship, Leadership and Future Technology. The theme of this Summit was "Redefining the Defined".

The WIE ILS Summit was held at Sterling's Mac Hotel, Bangalore, India on 30th and 31st August 2019. It was held under the aegis of IEEE Bangalore Section and WIE Bangalore Section. ILS19 was designed with following tracks: - Entrepreneurship - Leadership - Innovation - Humanitarian - Women in Technology.



IEEE WIE *International Leadership Summit* '19



Our students, **Ketan Keshav**, IEEE KSIT SB Chair, SAC Coordinator, PR and Promotions Coordinator, IEEE Bangalore Section and Meghana CV, IEEE KSIT SB member and SAC member from Graphic Design team volunteered this event and stayed till the very end to close the event and did numerous interviews and managed the event

“ IEEE
SMARTTECH
2019



Student Chair, **Mr Ketan Keshav** and IEEE KSIT SB members, **Nagalekha R**, **Keerthana V** and **Ishani Koul** coordinated this event that was held on 11,12 & 13th Oct 2019.

'19 SYWLC



COMSNET '20

Our Student Chair **Ketan Keshav** coordinated COMSNETS 2020 which was held in January 2020. He was part of the Panel discussion "India - The Greenfield for SMART Villages and Cities"

Eureka 2019 highlights the dissemination of technical literacy to students from class 8 - 10. We TEAM EFTYCHIA, Regional winners were proud to represent IEEE Bangalore Section and our Student Branch, IEEE KSIT on this platform. The finals was held at MIT-WPU, Pune, India.



EUREKA 2019



IEEE CCEM 2019



The Eighth IEEE International Conference on Cloud Computing in Emerging Markets (CCEM) is highly successful CCEM conference series which was originally launched in 2012. **Student Chair Ketan K** and members **Nagalekha and Keerthi M** coordinated this event that was held on 19th and 20th of September, 2019.

IEEE KSIT along with WIE affinity group and Health shotz conducted their first event : AASARE on account of 'World Environment Day' on 7th July, 2019. The students consisting of 13 IEEE members and 2 non-IEEE members assembled at the venue at 7:00 am, all geared up to create a vertical garden. They potted saplings and set them out beautifully and created a wonderful green patch vertically. On this day, 15 people took part and made it a grand success.



Environment
DAY

EVENTS

IEEE KSIT along with WIE affinity group and PSG conducted their second event : UTTUNGA on 12th and 13th July, 2019.

About 10 IEEE members and 3 Non-IEEE members and volunteers assembled at the Government High School, Sarakki on Friday, the 12th July. The volunteers taught English grammar, and mathematics to the students of grade eight. The volunteers also donated books and stationary to the students who benefitted from the event.



UTTUNGA



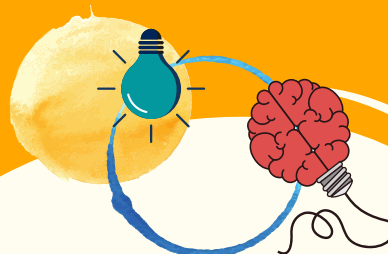


IEEE along with WIE affinity had its first meeting for the year 2019-2020 with the chief guest Mrs Divya, WIE CHAIR BANGALORE SECTION on 07th August 2019. The meeting took place at the ECE seminar hall with 52 IEEE members, 20 non IEEE members, the EXECOM, and the staff.

The Chief guest spoke about the objectives of WIE affinity and also proposed a few changes with respect to the working of the IEEE and WIE affinity. An interactive session occurred between the students and the chief guest.




WIE EXECOM MEET



IEEE KSIT, in association with WIE affinity conducted their orientation day on 17th August, 2019 welcoming its budding engineers and student members for the academic year 2019-20. There were 100 IEEE and 300 non-IEEE members who took part in the event. The freshers were motivated in learning more about IEEE and were overwhelmed in joining the IEEE family and were also briefed about the events that were planned in their favour.

Induction PROGRAM




IEEE KSIT along with its WIE affinity in association with IEEE Bangalore section, hosted its Mega event 'INNOVACEEEA 3.0' on 29th September 2019 at KS Institute of Technology. The event had participants coming from different colleges as well; accounting to almost 180 teams of 3 members each.

5 rounds in total which included :

- 1) Technical Quiz
- 2) Know your brands (Crossword puzzle)
- 3) a. Dumb Charades
b. Minute to win it
c. Tick the doodle (Pictionary quiz)
- 4) Hunter's Gathering
- 5) Surprise round



IEEE KSIT along with its WIE affinity in association with IEEE Bangalore section, celebrated the IEEE day on 1st October, 2019. The event had Mr. Abhishek Appaji, from IEEE, BMSCE as our chief guest for the day. The day kick started with an inspirational speech by Mr. Abhishek followed by few enlightening words from our CEO Dr. K.V.A. Balaji.



The participants were excited to take part in Mini project exhibition and Ideathon conducted on the same day. The celebrations started off with Mini project exhibition, where students from different colleges were excited to show their projects developed with sheer dedication. This was followed by Ideathon, where participants had to present a practically feasible idea that can be implemented for real-world problems.



IEEE DAY



“AASARE”

IEEE KSIT along with its WIE affinity in association with IEEE Bangalore section, hosted a humanitarian activity on 3rd November, 2019. The volunteers (15 IEEE) visited the Ramanamaharshi school for the blind and interacted with various visually impaired students present there. We also had an opportunity to donate some essential provisions, including general medicine.

Students there were extremely interactive and shared their thoughts. This event was very informative, gave us an insight to their daily lives and helped us realize what we could do to help them as a society.



“Women's DAY”

IEEE KSIT along with WIE affinity celebrated the women's day on 9th March 2020 on the theme 'EACHFOREQUAL'. The celebration took place at the ECE seminar hall with 52 IEEE members, 20 non-IEEE members, the EXECOM, the staff and HODs from all the departments. The Chief guest, Mrs. Kumudhini Ravindra, the vice-chair of WIE IEEE Bangalore section, graced the occasion with her inspiring words. The chief guest proposed for an interactive session during which many students gave in their ideas about women driven entrepreneurship and gender parity. Then, the principal and the management addressed the gathering by speaking about achievements and role of women in our society and forged purposeful action for equality.



Online Quiz ON Novel COVID '19

IEEE KSIT along with WIE KSIT conducted an online quiz on the Novel Coronavirus on 23rd March, 2020. The quiz had 1800 participants and e-certificates for participation was issued to all of them. IEEE KSIT SB is the first SB in the Bangalore section to conduct an awareness program on Covid- 19.



“CAREER TRENDS AND SKILLS FOR SUCCESS IN BUSINESS INTELLIGENCE AND TRADE COMPLIANCE”

IEEE KSIT in collaboration with LAB-X and IEDC cell KSIT organized a panel discussion on “CAREER TRENDS AND SKILLS FOR SUCCESS” on 14th November, 2019. The speakers for the event were Mr. Dave Thakkar, Sr. Program Manager, AMAZON (Seattle), Mr. Brad Haney, Sr. Trade Compliance Manager, AMAZON (Seattle) and Mr. Ankit Bera, Sr. Operations Manager, Global Trade –AMAZON(Bengaluru). About 200 students actively participated in the event.



**CODE
v
WIN
1.0**

IEEE KSIT along with its WIE affinity conducted an online programming challenge- “CODE \n WIN 1.0” on 4th May, 2020. The coding challenge was open to all, and each participant was given a time limit of 90 minutes to solve the challenge. There were 500 participants for the event and participation certificates were given to all. Top 10 participants were given special winner certificates.

IEEE KSIT SB along with its WIE affinity virtually launched IEEE KSIT Signal Processing Society (SPS) on the 30th April, 2020. The inauguration program had a webinar on ‘Carl Friedrich Gauss and Signal Processing’.

The chief guest for the event was Prof. K V S Hari-Vice President, IEEE Signal Processing society; Professor, Dept. ECE Indian Institute of Science, Bangalore. The speaker for the event was Mr. Sudeep Prabhakar Chepuri- Assistant Professor, Department of ECE Indian Institute of Science, Bangalore. The speaker present topics on what is signal processing, its applications and the contributions of Carl F Gauss.



IEEE KSIT along with its WIE affinity had its orientation program for the academic year of 2020 on 19th June, 2020.

The event was organized on an online platform and had 41 participants. The benefits of IEEE membership were discussed by Mrs. Jayasudha BSK - Branch Counsellor of IEEE KSIT over the course of the event to the First year students of KS Institute of Technology.



IEEE KSIT along with its WIE affinity and IEEE KSIT SPS conducted an online workshop on Introduction to Adobe Illustrator and Adobe XD on 19th April, 2020. There were 53 participants and all the participants were awarded participation certificates. The workshop was assisted by our **Chair Ketan Keshav** and IEEE SB member **K Tarun Naidu**.



IEEE KSIT SB conducted a virtual event on the Best practices for student chapters on 3rd July, 2020.

The talk presented various ideas and practices to be followed by the student chapter to improve itself.



IEEE KSIT SB in association with IEDC KSIT and CoreEL Technologies conducted an online workshop on 'Introduction to MATLAB and Simulink Products.' The workshop was a 2 day event and was conducted on 22nd and 23rd June, 2020. The workshop covered areas of Image Processing using MATLAB, Artificial Intelligence Development using MATLAB and Model based design using Simulink. There were about 50 participants and they were awarded participation certificates.

Introduction

TO MATLAB & Simulink PRODUCTS

IEEE SB conducted a webinar on Introduction to ML and Full Stack Development. The speakers for the event were Mr. Rahul Kumar K – CEO, Inversa Technosoft, Mr. Ameer from Inversa Technosoft and Mr. Raghu K, Accenture. There were about 70 participants for the webinar. They speakers spoke about how to develop the skillsets in ML, AI and Full Stack Development and various job opportunities and applications.



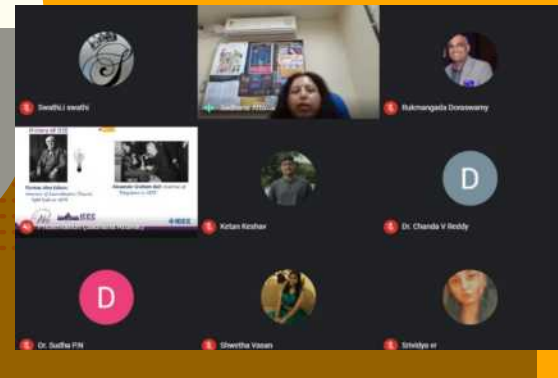
TO ML & Full Stack Development

IEEE KSIT along with its WIE affinity and SPS KSIT conducted a Poster Making Contest on 15th October, 2020 on account of IEEE Day Celebrations with the theme "Life in and around COVID", considering the present times and the virtual space we are all involved in amidst the pandemic. Participants had submitted both hand written and digital posters. We had more than 15 posters submitted for the contest.



“POSTER MAKING”

IEEE KSIT along with WIE affinity celebrated the 'IEEE DAY' on the 15th October, 2020. The participants included 80 IEEE participants and 20 Non - IEEE participants. The chief guest for the day was Ms Sadhana Attavar - WIE Chair Bangalore Section. The chief guest shared with the students, the benefits of being an IEEE member and briefed the students with the history of IEEE



IEEE DAY

Celebrations



IEEE KSIT SB conducted a webinar on How to launch your own start-up. The speaker for the webinar was Mr. Raghav Naidu G- G-MART CEO; Health Shotz co-founder on 21st June, 2020.

There were around 45 participants who attended the webinar. The speaker shared his experiences with the participants and also spoke about the growth in the rate of start-ups.

VIDEO CONTEST

IEEE KSIT along with WIE KSIT and IEEE SPS organized an online video contest for the students, staff and Alumni of KSIT. The participants sent in their videos filled with all the moments they cherished at KSIT.



IEEE along with WIE affinity conducted its Annual Valedictory Function. The event had about 30 participants. The Execom for the year 2020-2021 were officially handed over their duties and responsibilities. The new Execom were all thrilled and excited to take up their roles in putting a united front.



STAFF EXECOM



Mrs. Jayasudha B S K



Mrs. Sangeetha V



Mr. B Sudharshan



Dr. P N Sudha



Mr. Santosh Kumar



Mrs. Sahana Salagare



Mrs. Shilpa V



EXEOM

2019 - 2020

MILESTONES









Magazine Committee

Mentored by



Mr. Ketan Keshav
STUDENT CHAIR, IEEE KSIT SB



Mrs. Jayasudha B S K
BRANCH COUNSELOR, IEEE KSIT SB

Designed and Developed by:

Nagalekha Ramesh
CREATIVE TEAM HEAD, IEEE KSIT SB



Content:

S Shwetha
WIE SECRETARY

