

# NOSTALGIA 2019 - 2020



KAMMAVARI SANGHAM (R) - 1952  
**K. S. INSTITUTE OF TECHNOLOGY**

(Affiliated to VTU, Belagavi & Approved by AICTE, New Delhi)

#14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560109 Tel : 080 - 28435722 / 24 Web : www.ksit.ac.in



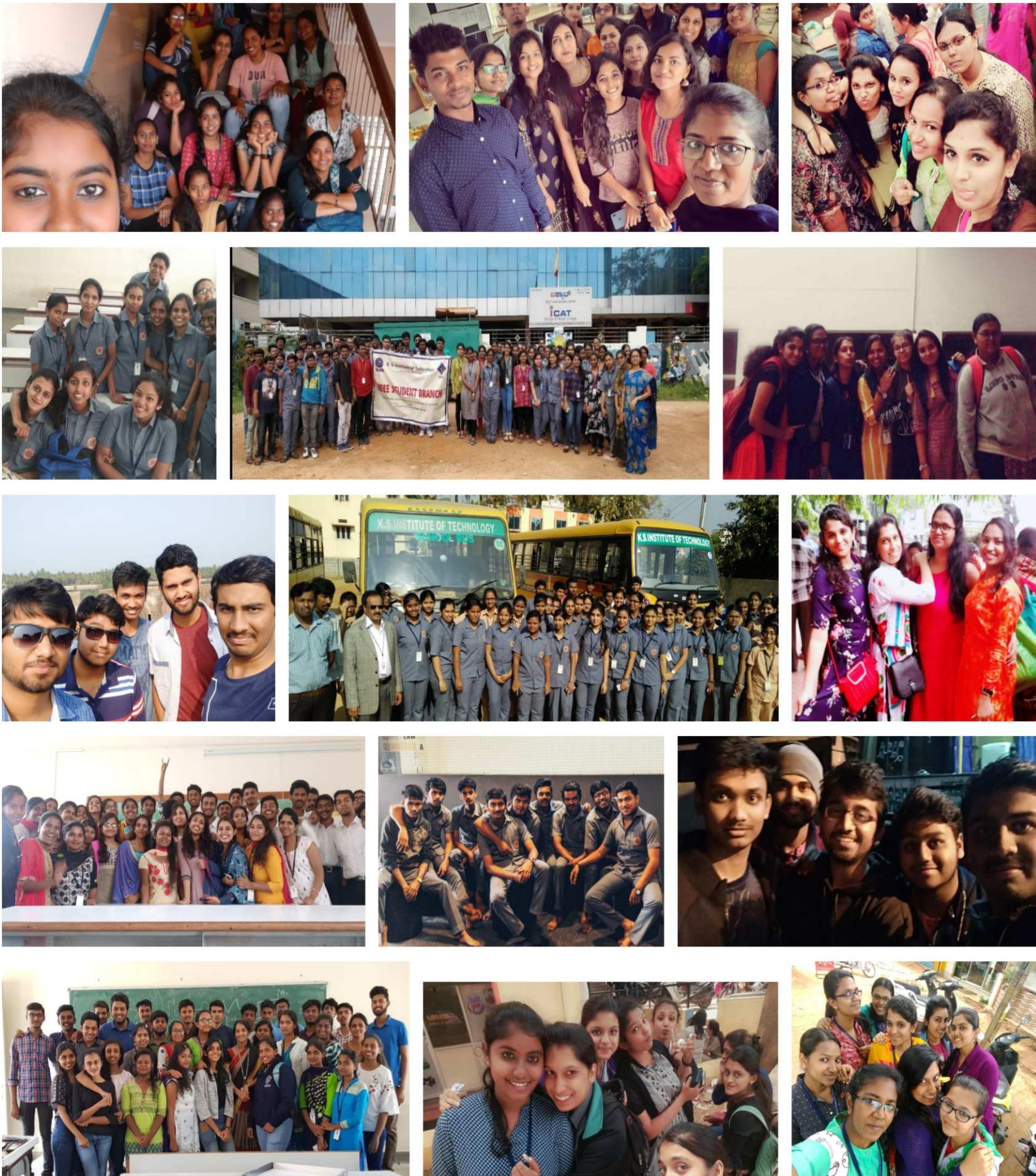
# PRERANA - 6

*Inspire To Innovate*

**Staff Coordinators:**  
Mrs. Sangeetha V  
Mrs. Sahana Salagare

**Student Coordinators:**  
Mr. Rithvik Prabhakar  
Mr. Vishal Goutham N  
Mr. Shiva Shankar B  
Ms. Kadri Srinidhi Rao  
Ms. Neha N V

**Department of Electronics and Communication Engg.  
2019-2020**





## K. S. INSTITUTE OF TECHNOLOGY

### Vision

"To impart quality technical education with ethical values, employable skills and research to achieve excellence. "

### Mission

- To attract and retain highly qualified, experienced and committed faculty.
- To create relevant infrastructure
- Network with industry and premier institutions to encourage emergence of new ideas by providing research and development facilities to strive for academic excellence
- To inculcate the professional and ethical values among young students with employable skills and knowledge acquired to transform the society

## DEPARTMENT VISION AND MISSION

### Vision

"To achieve excellence in academics and research in Electronics & Communication Engineering to meet societal need"

### Mission

- To impart quality technical education with relevant technologies to produce industry ready engineers with ethical values
- To enrich experimental learning through active involvement in professional clubs and societies
- To promote industry -institute collaboration for research & development

## PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1 : Excel in professional career by acquiring domain knowledge.

PEO2 : Motivation to pursue higher Education and research by adopting technological innovations by continuous learning through professional bodies and clubs.

PEO3 : To inculcate effective communication skills, team work, ethics and leadership qualities.

## PROGRAM SPECIFIC OUTCOMES (PSO'S)

PSO1: Graduate should be able to understand the fundamentals in the field of Electronics and Communication and apply the same to various areas like Signal processing, embedded systems, Communication & Semiconductor technology.

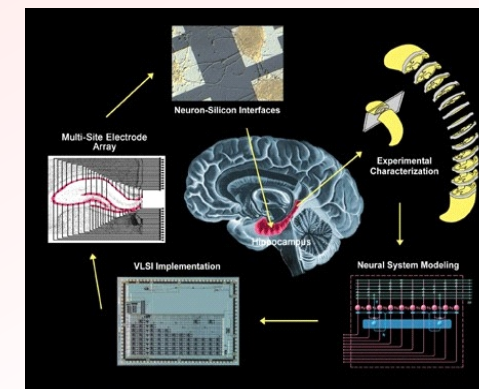
PSO2: Graduate will demonstrate the ability to design, develop solutions for Problems in Electronics and Communication Engineering using hardware and software tools with social concerns.

## ECE Magazines



## More ECE related technologies

### Brain Chips



In Munich, the Max Planck team is taking a revolutionary approach: interfacing the nerves and silicon directly. "I think we are the only group doing this," Fromherz said. Fromherz is at work on a six-month project to grow three or four neurons on a 180 x 180-transistor array supplied by Infineon, after having successfully grown a single neuron on the device. In a past experiment, the researcher placed a brain slice from the hippocampus of a monkey on a specially coated CMOS device in a Plexiglas container with electrolyte at 37 degrees C. In a few days dead tissue fell away and live nerve endings made contact with the chip.

### Nanorobots for Heart Surgery



These **nanoscale devices** are able to perform higher with reduced time researches in nanotechnology brought newer approaches in the field of medicine. This paper focuses on the employment of nanorobots for removing the heart blocks in more effective and accurate manner. Today's technology promises a lot more than the insertion of a thin tube into the blood vessels. Nanorobots can be used in this process of curing heart blocks.



## TOPPERS LIST

### EVEN SEM JUNE-JULY 2019

II SEM



**SANJANA B**  
1KS18EC078  
90.88%



**DHEERAJ M S**  
1KS18EC023  
89%

IV SEM



**M SIRISHA**  
1KS17EC028  
88.47%



**RACHANA S**  
1KS17EC075  
87.88%

VI SEM



**POOJA K**  
1KS16EC061  
85.87%



**BHOOMIKA P M**  
1KS16EC017  
83.62%

VIII SEM



**SWATHI K S**  
1KS15EC101  
92.14%



**SMITHA S KARANTH**  
1KS15EC095  
93.43%

### ODD SEM DEC-JAN 2019

I SEM



**GAYATHRI R WARRIAR**  
1KS19EC028  
9.45



**SAHANA K S**  
1KS19EC073  
9.25



**DISHA SHIVANI**  
1KS19EC025  
9.45



**VANDANA G**  
1KS19EC101  
9.25

III SEM



**DHEERAJ M S**  
1KS18EC023  
87.56%



**SUPRIYA S**  
1KS18EC093  
85.78%

V SEM



**M SIRISHA**  
1KS17EC028  
88.88%



**CHETHANA K S**  
1KS17EC028  
83.25%

VII SEM



**MEENAKSHI A**  
1KS16EC049  
90.38%



**POOJA K**  
1KS16EC061  
90.13%



**Sri. Y Ramachandra Naidu**  
President



**Sri. K Venkatesh Naidu**  
Secretary



**Sri. D Rukmangada**  
Treasurer

"It's good to look back and reflect on what we have achieved as a community and the very purpose of publishing a annual newsletter is to highlight the activities and developments of the department, achievements of the staff, students, alumni and events organized. Newsletter reflects upon the commendable contribution made by the faculty and students alike we congratulate the team for bringing out the th edition of PRERANA"

#### - MANAGEMENT



**Dr. K V A BALAJI**  
Chief Executive Officer  
K S Group Of Institute

It is with absolute admiration that I take note of the Department of Electronics and Communication at KSIT that is fully committed to hone certain qualities among the students who enter this department and leave its portals after four years of learning, training and development. The department has been very successful in creating an ambience for its students to transform themselves into professionals with an edge to adopt and perform. The department believes that students should have an overall development through experiential learning and thus promotes a host of Club activities. Professional bodies like IEEE and WIE are very active by providing a platform for various activities. Abundant opportunities are created for the students to learn beyond the prescribed syllabus. Students are always motivated to do projects, both minor and major, through which they bring out their learning into practice and vice versa. The wonderful efforts of staff and students are being showcased in this Newsletter - "PRERANA 6". I am very glad to wish the committed staff and talented students of the department the very best in all their academic endeavors.



**Dr. T. V. GOVINDARAJU**  
PRINCIPAL / DIRECTOR

Dear Staff and Students,  
I congratulate editorial team of Electronics and Communication Department on this wonderful occasion of releasing the Department Newsletter "PRERANA VOLUME -6" for the period April 2019 -June2020. This newsletter highlights the department achievements; events organized and participated by staff and students. I am proud to say that our students are excelling in academics, sports and cultural activities. This participation and winning prove that our staff and students have brought laurels to KSIT and to the Department. Our Motto should be, "True leadership is about striving to become better in all areas of life and empowering everyone around you to become the best versions of themselves".. I encourage the staff & students to become good leaders & to continue the excellent work in motivating others. My best wishes to all.



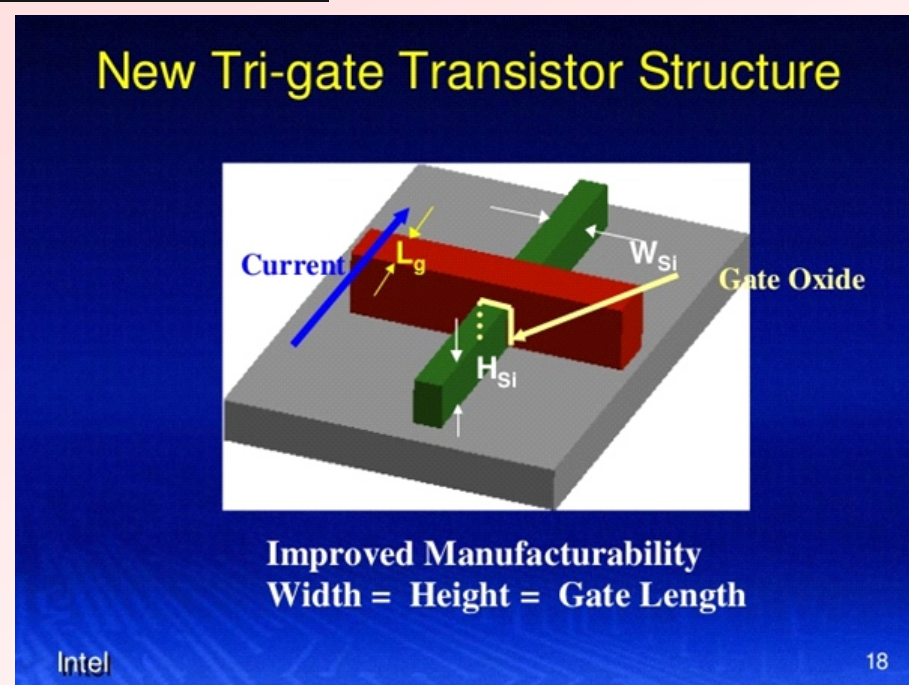
**DR P. N. SUDHA**  
PROF & HEAD, DEPT. OF HOD

I would like to congratulate our department Editorial team for their excellent effort in summarizing the talent, achievements and mile stones achieved by our Staff and students through the department news letter. It gives me immense pleasure and excitement to showcase the departmental activities through our news letter PRERANA-6 for the year 2019-20. KSIT ECE department not only concentrates on academic activities but also the overall personality development of students through innovations, creativity & leadership qualities. KSIT is one of the pioneer institutes in providing technical education with ethical values. Our department has dedicated teaching and supporting staff to help our students to excel in their learning & creative thinking. Our experienced and well learned faculties help use to empower a diverse community of students to nurture their capabilities, transform their lives and find success through high quality teaching and learning. We encourage our students to participate in curricular and extracurricular activities to shape them as leaders of tomorrow and to be industry ready engineers to face competitive world. Our department believes in the quote " Education is not the filling a pail, but the lighting of a fire". We ignite passion towards learning in our students.



## LATEST TECHNOLOGY

## INTEGRATED CMOS TRI-GATE TRANSISTORS



Tri-Gate fully-depleted CMOS transistors have been fabricated with various body dimensions. These experimental results and 3-D simulations are used to explore the design space for full depletion, as well as layout issues for the Tri-Gate architecture, down to 30nm gate lengths. It is found not only that the Tri-Gate body dimensions are flexible and relaxed compared to single- gate or double- gate devices, but that the corner plays a fundamental role in determining the device I- V characteristics. The corner device not only turns on at lower voltages due to the proximity of two adjacent gates, but the DIBL of this part of the device is much smaller than the rest of the transistor. The shape of the sub threshold I-V characteristics and the degree of DIBL control, as well as the early device turn-on are also greatly affected by the degree of body corner rounding. Examination of layout issues shows that the fin-doubling approach from using a spacer printing technique results in an increase in drive current of 1.2 times that of a planar device for a given width, though the shape of the allowed Tri-Gate fins has certain restrictions. The tri-gate transistor isn't entirely a new announcement, as the company has been talking about the technology at various events since September of 2002. Presenting at the 2006 Symposia on VLSI Technology and Circuits in Honolulu, Hawaii, Intel followed up with more details and first test results, which indicated that the tri-gate transistor, often also referred to as "3D transistor" may in fact be a technology that will make it into production one day.

With the amount of transistors doubling every 18 – 24 months company is inclined more and more to reduce the transistor size which essentially lies on reducing the source, drain, gates size. Reducing the gate size created several challenges such as increasing current leakage in "off" states of a transistor – causing the overall power consumption of a semiconductor device to climb. Power consumption has been a major consideration in Chip design technology. First tri-gate transistors apparently have been manufactured and Mayberry claimed that 65 nm versions offer a 45% increase in speed or 50 x reductions in "off"-current when compared to regular planar transistors. All this is pretty interesting. Lets wait and see how far companies reduce the size and power consumption in future.

Tri-gate or 3-D are terms used by Intel Corporation to describe their non planar transistor architecture planned for use in future microprocessor technologies. These transistors employ a single gate stacked on top of two vertical gates allowing for essentially three times the surface area for electron to travel. Intel reports that their tri-gate transistors reduce leakage and consume far less power than current transistors.

## PROFESSIONAL CLUBS



KSIT IEEE Student branch has been recognized as one of the most active student branches by the IEEE Bangalore section. This student chapter has been highly involved in the technical development of students by conducting workshops & tech talks.



ISTE formulates & generates goals & responsibilities of technical education. Seminars, workshops, conferences are organized on the topic of relevance to technical education for engineering students as well as teachers



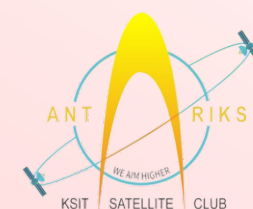
IETE focuses on advancing electro-technology. The vision of IETE is reaching the unreached & empowering youth through technical education & skill development. IETE conducts workshops & technical talks on various tech topics.



The Institution of Engineers (IEI) is the national organisation of engineers in India. IEI in KSIT promotes an environment to enable ethical pursuits for professional excellence.



Garut aeromodelling club (GAC) in KSIT provides the students with various aero modelling related workshops, technical talks & promotes environment to professional excellence.



Antariksh - KSIT Student Satellite Club provides theoretical knowledge to applying them to building satellites. There is no barrier for any branch student to be a part of the club as coming up with satellite involves coding, circuitry, design, data and communication.



## 100% RESULTS

Mrs Aruna Rao B P	Verilog HDL
Mr Chowdappa M R	Complex Analysis, Probability and Statistical Methods
Mrs Jalaja P	Complex Analysis, Probability and Statistical Methods
Mr Christo Jain	Analog Circuits
Dr P N Sudha	Control Systems
Mrs Shipla V	Control Systems
Mrs Bhargavi Ananth	Engineering Statistics and Linear Algebra
Mrs Pragathi p	Signals and Systems
Mr B R Santosh Kumar	Microcontroller
Mrs Sangeetha V	Digital Communication
Mrs Jayasudha BSK	ARM Controller and Embedded Systems
Mrs Aruna Rao	VLSI Design
Mr Praveen A	VLSI Design
Dr B Surekha	Computer Communication Networks
Dr P N Sudha	Cellular Mobile Communication
Dr B Sudharshan	Digital Switching Systems
Dr P Joy Prabhakaran	Data Structures using C++
Dr Sangappa S B	Wireless Cellular and LTE 4G Broadband
Mrs Pooja S	Wireless Cellular and LTE 4G Broadband
Mrs Sahana Salagare	Fiber Optics and Networks
Mr Saleem S Tevaramani	Radar Engineering

## DEPARTMENT WELCOMES

1. Mrs. Mohanambica K M - Assistant Professor
2. Mrs. Pooja s - Assistant Professor
3. Mrs. Smitha Malya - Assistant Professor
4. Mrs. Preethi Mishra - Assistant Professor
5. Mrs. Priyadarshini J Patil - Assistant Professor

## EVENTS CONDUCTED



**Environmental day** was celebrated on 7th June 2019 by **KSIT IEEE STB** to promote a more conscious and healthier relationship with the environment, highlighting the fragile beauty of nature and our dependence on it.

**UTTUNGA 1** was conducted by **KSIT IEEE STB** on 12th and 13th July 2019 at Government High School, Sarakki, JP nagar to enlightene the importance of learning English as a window to the outside world.



Three day of **FDP on Outcome based NBA** was held for all the faculties on 17th to 19th of July 2019 by **IEE/IETE** to Understand process of NBA Accreditation for Engineering Colleges. **Dr B V Ravishankar** Principal, BMSCE, Bengaluru was the resourse person.

**UTTUNGA 2** was conducted on 19th to 20th July 2019 by **KSIT IEEE STB** in Government High School, Sarakki, JP Nagar.





**UTTUNGA 3** was conducted on 26th and 27th of July 2019 by **KSIT IEEE STB** along with the **WIE** affinity group and health shots conducted.



**WIE EXECOM MEET** was organized by **KSIT IEEE STB** on 7th Aug 2019 to discuss about the IEEE activities conducted under WIE and to improve membership count.



**SIDE EFFECTS OF MOBILE PHONE AND WIRELESS RADIATION** was held from 10th-16th August 2019 by **The Garut Aeromodeling club and The IETE Student Forum** to create awareness to people in the neighbourhood community about the side effects of excessive usage of mobile phones.



**Networking & overview on Networking certification** seminar was held on 23rd Aug 2019 by our alumini **Mr. Akhil Mohan**, Platform Operation Engineer, Akamai Technology.



**Guest Lecture on Microwave Antennas :Advances and Applications** was held on 31st Aug 2019 by **IETE** to expose the Faculty/ Research Scholars/ Students to the emerging area of Antennas.



## STUDENT ACHIEVEMENTS

- Sadhika Chandra R has secured 2st place in 100 mtrs running competition, 3rd place in 200 mtrs running competition, 3rd place in 400 mtrs running competition, 1st place in 800 mtrs running competition organized by K.S.I.T, Bangalore.
- Ramya Shree R has secured 3rd place in 100 mtrs running competition organized by K.S.I.T, Bangalore.
- Shivdatt B has secured 3rd place in 200 mtrs running competition, 1st place in 400 mtrs running competition, 1st place in 800 mtrs running competition, 1st place in 1500 mtrs running competition organized by K.S.I.T, Bangalore
- Vinod Kumar P has secured 3rd place in 400 mtrs running competition organized by K.S.I.T, Bangalore
- Deepika M has secured 1st place in 400 mtrs running competition organized by K.S.I.T, Bangalore
- Dheemanth K N has secured 1st place in Discus throw competition organized by K.S.I.T, Bangalore.
- Shreyashwini V has secured 2nd place in Discus throw competition organized by K.S.I.T, Bangalore.
- Vaibhavi Sreenivasa has secured 2nd place in Long Jump competition organized by K.S.I.T, Bangalore.
- Mehgana Gowda secured 3rd place in 800 mtrs running competition organized by K.S.I.T, Bangalore.
- Sachin, Chethan G, Shivdatt B, Vinod have secured 2nd place in 4\*100 mtrs relay organized by K.S.I.T, Bangalore.
- Sadhika Chandra R, Deepika M, Yashaswini, Meghana have secured 1st place in 4\*100 mtrs relay competition organized by K.S.I.T, Bangalore.
- Ramyashree, Vandhana G, K Rishika Ravi, Sadhana M have secured 3rd place in 4\*100 mtrs relay competition organized by K.S.I.T, Bangalore.



Sadhika Chandra R  
7th Sem

- She has Represented **VTU Football team** in South zone inter-university Football Tournament 2019-20 held at Christ University, Bangalore.
- She has won the **Individual Championship** award in the Sports Day organized by K.S.I.T, Bangalore.
- She has won **Best Student Award** awarded at 16th Karnataka State Level ISTE Student Convention



**SOCIAL WELFARE IN ASSOCIATION WITH NSS**



National Service Scheme(NSS) Annual Special Camp was held from 5th Feb to 11th Feb 2020. It was held in Aiyonnora Gollahalli, Kanakapura taluk, Ramanagar district. NSS is a voluntary social service cell that is very active in our college. Like every year we conducted cultural events and shramadhaan in the camp. It was well received by the villagers and the school where we stayed. The children there participates in large numbers and enjoyed our company. We even went on a trek to a nearby hill. It was a huge encouragement for the volunteers. As we were at Kanakapura, the reigning politician Mr. D K Suresh also visited our camp site to encourage us. To appreciate the volunteers, prizes were awarded to the best teams in various events and volunteers for their performances.



A word puzzle session for grade 6th and 4th students. Students from 4th semester, K. S. Institute of Technology visited School Bell , Agara government high school on 22nd February, 2020. The students got divided into groups to teach the children in the school. They were then taught about word games, what were the meaning of the words, and word building game which is a helpful game for memory power to the students. By the end of the session, the students could spell different words and the understand the meaning and usage of the words. This helped them improve their creative thinking and memory power.



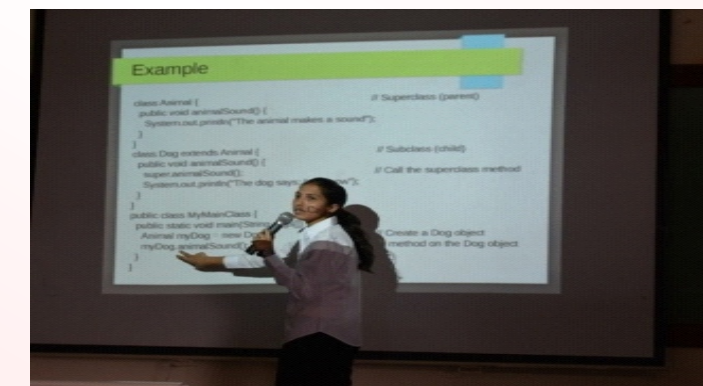
**Social media Networking Impacts on College Students** technical talk was organized on 25th Sept 2019 by IETE to acquired knowledge of positive and negative impact of social media. **Dr. Hamsaveni**, BHMS doctor was the key resource person.

**Entrepreneurs's life and career opportunity** talk was organized on **27th Sept 2019** by our alumini **Mr. Gurusharan**. This was organized to give a insight to the studetns in developing applications on mobile platform.



**INNOVACEEEA 3.0** was held on 29th Sept 2019 by **KSIT IEEE STB** to identify the hidden talents of our students by conducting events like techquiz,surprise round etc. **Dr.K.V.A Balaji** CEO, K.S. Group of Institutions was the resource person.

**APP Development Programme** workshop was conducted on 28th-29th Sept 2019 b **5th sem CSE students and IEEE** to provide essential skills and experiences to the students in developing applications on mobile platform.



**One-day workshop on "Robotics"** was held on 30th Sept 2019 by **Garut Aerobotics Club (GAC) and IETE Students Forum (ISF) of ECE Department** with **Avian Aerospace, Bangalore** to exposeparticipants tonew avenues of robotics.



**IEEE Day Celebrations** was celebrated on 1st Oct 2019 to know the importance of IEEE and its core purpose to foster technological innovation and excellence for the benefit of humanity with **Abhishek Appaji IEEE,BMSCE,Bengaluru** as the resource person.



**IDEATHON Contest** was conducted on 1st Oct 2019 to identify the talents of the events included debate, poster making, logo designing and mini project by **IEEE KSIT** and **Dr. Sasindhran M Prabhu** was the resource person.

A 2 days workshop on **Image & Video Processing using Raspberry Pi** was organized on 1st -2nd Oct 2019 by **IETE** with **Mr. Sagar HB, Application Engineer, Telos Technologies. Mr. Mahesh.B.S, Application Engineer, RS Components, Bangalore** as the resource persons.



**Industrial Vist to iCAT Media & Design** was organized for 7th sem students on 2rd Oct 2019 where they taught the the need for animations and today's scope over animation industry.



**Workshop on Simulation Using NI** was organized on 10th Oct 2019 to provide exposure to Teaching Staff/ Non teaching Technical Staff/ Students to simulate the experiments on Multisim Using NI, according to the new syllabus framed by VTU. **Dr. Ravi Kumar Associate Professor,SJBIT** were the resource persons.



30		NAMRATHA G	1KS16EC054
31		NEHA JAYAKUMAR KOTWAL	1KS16EC057
32		SACHIN M G	1KS16EC077
33		SONIKA V	1KS16EC094
34		T G NITHYA	1KS16EC102
35		VISMITHA SONNA	1KS16EC115
36	ABC TECHNOLOGIES (S)	CHARAN A	1KS16EC020
37		RAVI NANDAN	1KS16EC073
38	TATA ELXSI	SUMA B S	1KS16EC099
39	DXC TECHNOLOGY	VIDYA B	1KS16EC109
40		SHEETAL J RAO	1KS16EC085
41		VIDHYA K S	1KS16EC108
42	24[7].AI	BHARATH R	1KS16EC016
43	HUDL	ABHISHEK A NANDYAL	1KS16EC003
44		AKASH MAHANTESH HOSMANI	1KS16EC006
45		JAYAM HARESH THARUN	1KS16EC031
46		MADHU GOWDA	1KS16EC044
47		PRAVEEN TULASIDAS NAIK	1KS16EC065
48		RAVI TEJA M	1KS16EC074
49		SHREYASWINI V	1KS16EC089
50		TEJAS P	1KS16EC103
51		RAKESH K M	1KS16EC430



## Placement Details

SI No.	Name of the Employer	Name of the Student placed	USN
1	TCS NINJA	CHANDANA R	1KS16EC019
2		DEEMANTH K P	1KS16EC022
3		KARTHIK K	1KS16EC035
4		NEHA N V	1KS16EC058
5		POOJA K	1KS16EC061
6		SHREYAS K V	1KS16EC088
7		SUDHANSHU S SHARMA	1KS16EC096
8		RASHMI S	1KS16EC072
9		VIVEK R	1KS16EC116
10	INFOSYS	KADRI SRINIDHI RAO	1KS16EC034
11		KOMAL KHANDELWAL	1KS16EC036
12		LAKSHMI PRIYA K	1KS16EC040
13		MANIKANTAN G	1KS16EC047
14		PRATHIKSHA P	1KS16EC063
15		SHWETHA S	1KS16EC076
16		SADHVIKA CHANDRA R	1KS16EC078
17		SAHANA D	1KS16EC079
18		SAHANA K G	1KS16EC080
19		LIKITHA Y	1KS16EC041
20	PRATYUSHA S A	1KS16EC064	
21	NTT DATA	AALIYA ZAINAB	1KS16EC002
22		ADITHYA D M	1KS16EC004
23		ANIRUDH K N	1KS16EC009
24		ASHIK B N	1KS16EC011
25		ASHWINI S	1KS16EC012
26		BHOOMIKA P M	1KS16EC017
27		JEEVITHA KALAASHILPA N C	1KS16EC032
28		MEENAKSHI A	1KS16EC049
29		MEGHASHREE V	1KS16EC050

**Technical Talk on Evolution of NANO Satellites** was organized on 14th Oct 2019 by **ISTE, IEEE and IEI** to give more information about cube satellites, IOT satellites. **Prof. K. Krishnaswamy**, Project Director, NIU SAT was the key resource person.



**KSIT IIC Innovation Day** was organized on **15th Oct 2019** to identify the talents of the events which included debate, poster making, logo designing etc. **Dr K V A Balaji, CEO, K S Group of Institutions** was the key resource person.

**NAL Industrial Visit** was organized on 31st Oct 2019 by **IEEE** to provide a platform to practically see how the concepts are put into action. The resource person was **Mr. Somanarayana** of NAL-CSIR.



One-day workshop on "Arduino" was conducted on 31st Oct 2019 to expose participants to new avenues of Arduino.

**Guest Lecture on Advances in Electronics and Communication engg** was held on 8th Nov 2019 by **IEEE** for which the key person was **Dr. Gayatri K M**. This was conducted to enable the students to motivate and exposure to Advances in Electronics and Communication.





**Panel discussion on Career trends and skills for success in Business Intelligence and trade Compliance** was held on 14th Nov 2019 to provide global exposure to students through interaction with technology leaders. This was conducted by **Mr. Dave Thakkar, Mr. Brad Haney, Mr. Ankit Bera** from Innovation and Entrepreneurship Development Cell.



**Constitution Day** was celebrated on 26th Nov 2019 to spread the importance of the constitution and to spread thoughts and ideas of Dr. B R Ambedkar. **Mrs. Anuradha** was the key resource person.



**Five-day Academic Development Program** was conducted for all the faculties of KSIT and external college faculties from 27th - 31st Jan 2020 by **BITES and IEEE KSIT** to understand the vocabulary of recent technologies so that the gap between industry and academia can be understood.



**Programming contest on C Programming** was conducted on 15th Feb 2020 to test the skills on C language in general organized by IIT Kanpur.



**16th KARNATAKA State Level Student Convention** was conducted on 22nd Feb 2020. The motto of Career Development of Teachers and Personality Development of Students and overall development of our Technical Education System by **ISTE-KSIT**.

- Christo Jain, Manju V C, Proposal of Wireless Power Transfer System with array of Aerial for short distance application, International conference on Recent Trends in science and Technology ICRTST - 2020, organized by ATME college of engineering, Mysuru held on 17th and 19th June 2020.
- Christo, Manju V Proposal of a cost effective wireless power transfer system from solar using aerial technology, 4th International conference on Trends in electronics and informatics (ICOEI), SCAD Collage of engineering, 15-17 June 2020, Tirunelveli, Tamilnadu  
<https://ieeexplore.ieee.org/document/9142926>
- Sampath Kumar S, Shanthi Prasad M J, A Survey on machine learning enabled SWARM robots for Autonomous and Precision Agriculture, International Conference on Science, Engineering and Management, Jan 24th -25th, ISSN : 978-93-89107-71-5  
<https://www.semanticscholar.org/paper/A-Survey-on-Machine-Learning-enabled-SWARM-robots-Kumar.S-Prasad.M.J/2085dedd1b9753091855de0615e7f4dde318c7ca>
- Aruna Rao B P, Shanthi Prasad M A, Design and modeling of input output functionalities of FPGA based IO block, Global Conference for Advancement in Technology, (GCAT-2019), Nagarjuna College of Engineering and Technology, Bangalore, India 18th-20th October 2019 ISBN: 978-1-7281-3694-3  
<https://ieeexplore.ieee.org/document/8978325>
- Aruna Rao B P, Sahana V, Rachana R Ritu Patil, Design and delay analysis of various 256-bit adders using verilog, ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7
- Aruna Rao B P, Madhu, Bhavana, Surabhi, Design and implementation of 256\*256 booth multipliers and its application, ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7
- Aruna Rao B P, Rahul, Pavan, High speed multipliers and complex summers, ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7
- Aruna Rao B P, Sirisha, Kruthik, Anitha, Design and implementation of reversible computational circuits by creating libraries of basic gates using verilog HDL, ICEECCOT 2019, 4th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques, GSSS Institute of Engineering and Technology for Women, Mysore on 13th - 14th December 2019. ISBN: 978-7281-3261-7

## STUDENT INTERSHIPS

Most companies look for real world experience when hiring and the best way to get that experience is through internships. Our students have done internships for real life experience and exposure in various companies like CAIR, DRDO, ISRO, Tekatron IT solutions, Bosch, SMES labs, Inventron, BSNL, SMEC Automation, Uniq Technologies.



- Aruna Rao B P, Meghashree V, Namratha Ganesh, Namratha Gopal, Village 3.0, Journal of Applied Science and Computation, Vol.6, No 12, pp 19 - 26, 2019, ISSN:1076-5131, Impact factor - 5.8
- Aruna Rao B P, V Supriya, A Monisha, Snehitha, Prathima P, Modern day washing machine, International Journal of Research in Engineering, Science and Management, Vol. 2, No.11, pp 668-670, 2019, ISSN: 2581-5792, Impact Factor: 4.308  
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<https://www.irjet.net/archives/V7/i8/IRJET-V7I8280.pdf>
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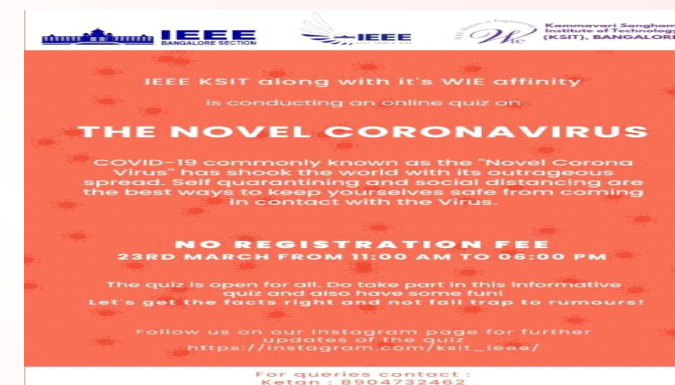
#### International conference publications

- P N Sudha, Srividya Secrecy capacity of symmetric key generated by quantizing channel metrics over a fading channel, 4th International Conference on Inventive Computation, Technologies ICICT-2019, Coimbatore, India 29th- 30th August 2019, ISSN: 2367- 3370  
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- Junaid Khan, Akshata Shenoy, Bhavana, M, Megha Shavelgi, Surekha borra, "Secure Anti-Piracy System", in the proceedings of 3rd International Conference on Intelligent Computing and Communication (ICICC - 2019), Springer, 7th & 8th June 2019  
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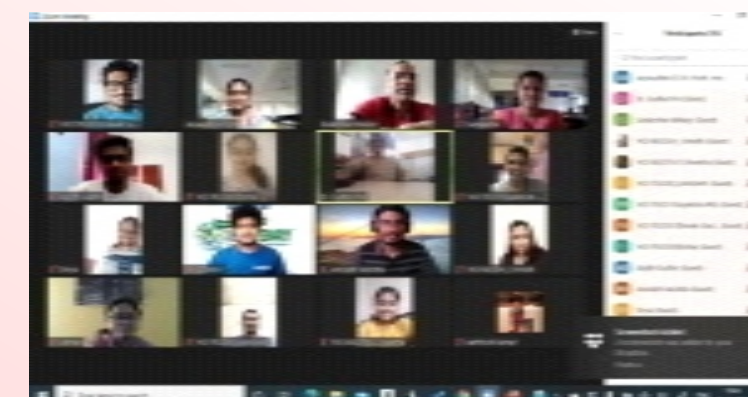
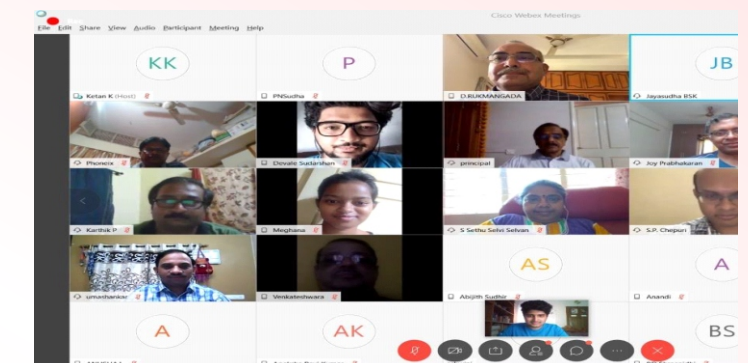
**International Womens Day Celebration** was celebrated on 9th March 2020 by **KSIT IEEE STB**. **Mrs. Kumudhini Ravindra**, the vice-chair of WIE addressed the gathering, enlightening objectives of women empowerment, the importance of values that guide women in the right path.



**ONLINE QUIZ ON THE NOVEL CORONAVIRUS** was conducted 23rd March 2020 by **KSIT IEEE STB**, to educate the community on the symptoms and safety measures that must be taken during the quarantine period and to get their facts right and not fall prey to rumours.



**Virtual Inauguration of IEEE KSIT Signal Processing Society Student Branch Chapter and a webinar on Carl Fredreih Gauss and signal Processing** was conducted in 30th March 2020 by **KSIT IEEE**.



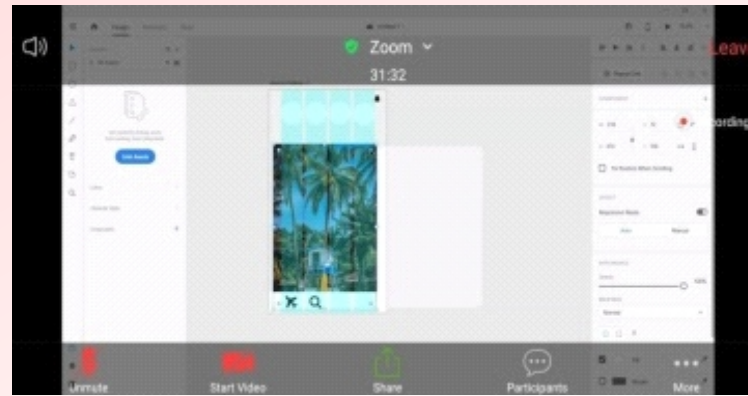
IEEE KSIT SB held an EXECOM Meet online on 29th April, 2020 to discuss the events conducted & planned for all EXECOM members.

**EVENT: CODE / n WIN 1.0** event was conducted on 4th May 2020 by **KSIT IEEE STB with WIE affinity and IEEE KSIT SPS** to students of various colleges to improve the technical competency of students.

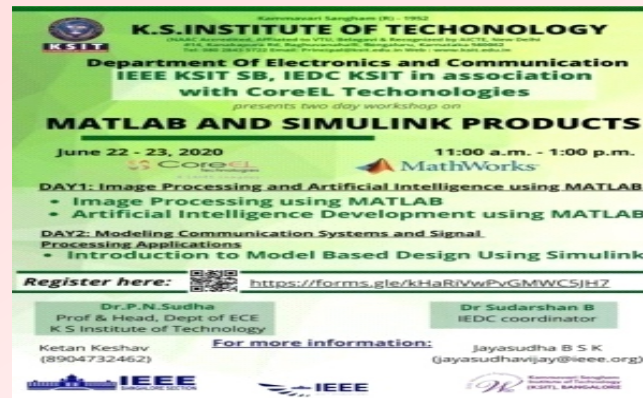




**Workshop on Adobe Illustrator and Adobe XD** was conducted on 19th - 20th April by Ketan Keshav to expose participants to Adobe Illustrator and Adobe XD.



**Introduction to Matlab and Simulink Products** was conducted on 21st - 22nd June 2020 by IEEE. The workshop covered areas of Image Processing using MATLAB, Artificial Intelligence Development using MATLAB and Model based design using Simulink.



**Webinar on How to launch your own startup** was 21st June 2020 by IEEE by resource person **Mr.Raghav Naidu G** is the CEO of **G-MART** and co-founder of **Health Shotz**.

### Faculty Development Program

- Dr. P N Sudha, Professor and HOD, Dr. B Surekha, Professor, Dr.B. Sudarshan, Professor, Mr.B.R. Santhosh Kumar, Assistant Professor, Mrs.Vishalini Diwakar, Assistant Professor, Mrs.Jayasudha B.S.K, Assistant Professor, Mr. Sampath Kumar, Assistant Professor, Mr. Sunil Kumar G.R, Assistant Professor, Mrs. Sangeetha. V, Assistant Professor, Mr. Praveen A, Assistant Professor, Mr. Christo Jain, Assistant Professor, Mrs.Pragati P, Assistant Professor, Mrs. Sahana Salagare, Assistant Professor, Mrs. Aruna Rao B.P., Assistant Professor, Mrs. Shilpa V, Assistant Professor, Mrs. Bhargavi Ananth, Assistant Professor, Mrs. Veda B, Assistant Professor, Mrs.Mohanambika K.M, Assistant Professor attended 3 Days FDP on Outcome Based Education-NBA held on 17<sup>th</sup>-19<sup>th</sup> July 2019 at KSIT, Bangalore.
- Dr. P N Sudha, Professor and HOD, Dr.B. Sudarshan, Professor an Mr. Saleem Tevaramani, Assistant Professor attended Workshop on Human digitalization: Future Intelligence held on 4<sup>th</sup> -5<sup>th</sup> September at Nimhans Centre, Bengaluru.
- Dr. P N Sudha, Professor and HOD, Mr. Praveen A, Assistant Professor, Mr. Saleem Tevaramani, Assistant Professor, Mrs. Shilpa V, Assistant Professor, Mrs. Bhargavi Ananth, Assistant Professor attended 5 Days Workshop on Cyber Security held on 2<sup>nd</sup> -6<sup>th</sup> December at DSATM, Bengaluru.
- Dr. P N Sudha, Professor and HOD, Dr. B Surekha, Professor, Mrs.Vishalini Diwakar, Assistant Professor, Mrs.Jayasudha B.S.K, Assistant Professor, Mr. Christo Jain, Assistant Professor, Mr. Saleem Tevaramani, Assistant Professor, Mrs.Pragati P, Assistant Professor, Mrs. Sahana Salagare, Assistant Professor, Mrs. Aruna Rao B.P., Assistant Professor, Mrs. Bhargavi Ananth, Assistant Professor and Mrs. Pooja S, Assistant Professor attended 5 Days ADP on Insights into the Vocabulary of Modern Technologies held on 27<sup>th</sup> -31<sup>st</sup> January 2020 at KSIT, Bengaluru.

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<https://www.irjet.net/archives/V7/i8/IRJET-V7I8341.pdf>
- Sahana Salagare, Harshini B.S, Meenakshi , Arpitha C V, Chandrakala K S, A Applications and Research Challenges of Underwater Communication Devices A Review, International Journal of Electronics and Communication Engineering Vol. 7, No.2, pp 1-2, 2020, ISSN : 2348-8549  
<http://www.internationaljournalsrsg.org/IJECE/paper-details?id=332>
- Aruna Rao B P, Shanthi Prasad M J, A comprehensive study of input output [IO]functionalities of contemporary IO, International Journal of Engineering Development and Research, Vol. 7, No. 3, pp 357-364,2019 ISSN: 2321-9939, Impact Factor: 7.37  
<https://www.ijedr.org/papers/IJEDR1903061.pdf>

- Dr. P N Sudha Professor and HOD attended 2 Days FDP on WIE ILS 2019 held on 30<sup>th</sup>-31<sup>st</sup> August at Hotel Sterling Mac Bengaluru.
- Dr. B Surekha, Professor attended One-week FDP on Xilinx Vivado Technique and Machine Learning Algorithm held on 8<sup>th</sup>-12<sup>th</sup> June 2020 at NITTE Meenakshi Institute of Technology, Bengaluru.
- Dr. B Surekha, Professor and Mrs.Pragati P, Assistant Professor attended One -week FDP on Recent IT Technologies, Writing Papers and Funding Proposals held on 20<sup>th</sup>-24<sup>th</sup> June 2020 at Raja Rambapu Institute of Technology, Rajaram nagar.
- Dr. B Surekha, Professor attended One -week FDP on Research opportunities in Image processing and Machine Learning held on 29<sup>th</sup> June -3<sup>rd</sup> July 2020 at Chaitanya Bharathi Institute of Technology.
- Dr.B. Sudarshan, Professor, Mr.B.R. Santhosh Kumar, Assistant Professor, Mrs.Jayasudha B.S.K, Assistant Professor, Mr. Sampath Kumar, Assistant Professor, Mrs. Sangeetha. V, Assistant Professor, Mrs.Pragati P, Assistant Professor and Mrs. Shilpa V, Assistant Professor attended 2 Days FDP on Problem Solving with Python held on 3<sup>rd</sup>-4<sup>th</sup> January 2020 at KSIT, Bengaluru.
- Dr.B. Sudarshan, Professor attended 6 Days National Workshop on OBE &NBA 13<sup>th</sup>-18<sup>th</sup> January 2020 at JIT, Bengaluru.
- Dr.B. Sudarshan, Professor, Mrs. Sangeetha. V, Assistant Professor, Mrs.Pragati P, Assistant Professor and Mrs. Sahana Salagare, Assistant Professor attended 2 Days FDP on MATLAB and Simulink Products held on 22<sup>nd</sup> – 23<sup>rd</sup> June 2020 at KSIT, Bengaluru.
- Mrs.Jayasudha B.S.K, Assistant Professor attended 2 Days Conclave on Advanced Heart Failure & Transplantation held on 6<sup>th</sup>-7<sup>th</sup> July 2020 at MS Ramaiah, Bengaluru.
- Mr. Sampath Kumar, Assistant Professor attended 5 Days FDP on Graphical Programming using NI lab view held on 28<sup>th</sup> June -2<sup>nd</sup> July 2019 at DSATM, Bengaluru.
- Mr. Sampath Kumar, Assistant Professor and Mrs. Sangeetha. V, Assistant Professor attended 3 Days FDP on MATLAB and Latex held on 24<sup>th</sup>-26<sup>th</sup> July 2019 at KSIT, Bengaluru.
- Mr. Sampath Kumar, Assistant Professor attended 2 Days Workshop on Design and Development of robot using Arduino board and Embedded C programming held on 19<sup>th</sup>-20<sup>th</sup> October 2019 at RVIT & M, Bengaluru.
- Mr. Sampath Kumar, Assistant Professor attended One week on Application of optimization techniques and number theory in Engineering Sciences held on 16<sup>th</sup>-21<sup>st</sup> January 2020 at MSRIT, Bengaluru.
- Mr. Saleem Tevaramani, Assistant Professor attended 1 Day Workshop on Internet of Things held on 17<sup>th</sup> August 2019 at Tech Trunk, Hyderabad.
- Mr. Saleem Tevaramani, Assistant Professor attended 1 Day Workshop on Data Science held on 17<sup>th</sup> August 2019 at Tech Trunk, Hyderabad.
- Mr. Saleem Tevaramani, Assistant Professor attended 2 Days FDP on Robotics process of Automation Held on 31<sup>st</sup> august to 1<sup>st</sup> September at Tech Trunk, Hyderabad.
- Mr. Saleem Tevaramani, Assistant Professor attended 5 Days FDP on Python for Data Science held on 1<sup>st</sup>-5<sup>th</sup> June 2020 at Raghu Engineering College, Vizag.
- Mrs. Nithya Kumari R, Assistant Professor attended a Workshop on EDA Tool held on 21<sup>st</sup> September 2019 at KSSCEM, Bengaluru.
- Mrs. Aruna Rao B.P., Assistant Professor attended one-week FDP on Online Learning and Assessment system held on 18<sup>th</sup>-22<sup>nd</sup> June 2020 at IOE, Kalburgi.



- Mrs. Aruna Rao B.P., Assistant Professor attended 5 Days ADP on Recent IT Technologies held on 20<sup>th</sup> – 24<sup>th</sup> June 2020 at KSIT, Bangalore.
- Mrs. Shilpa V, Assistant Professor attended one day Workshop on ESIM held on 21<sup>st</sup> September at KSSCEM, Bengaluru.

### Faculty Achievements

- Dr Sangappa B, Prof and PRO attended an event ISTE as a member, NEC, ISTE in 2019 at New Delhi.
- Dr Sangappa B, Prof and PRO attended an FDP on Microcontroller and Embedded systems as a Chief guest on 2019 at JSSATE, Bengaluru.
- Dr Sangappa B, Prof and PRO attended a Global Engineering Deans council as a Member of GEDC and IFES on March 10th 2020 at Global Engineering Deans Council.
- Dr Sangappa B, Prof and PRO attended a 5 Days National workshop on “3D Printing and Raspberry Pi” as a Chief Guest on March 2nd 2020 at SMVIT, Bengaluru.
- Mrs.Jayasudha BSK, Asst Prof Participated in IEEE Bengaluru and won Best branch counsellor on Feb 24th 2019 at IEEE, Bengaluru.
- Mrs.Jayasudha BSK, Asst Prof attended 5th IEEE WIECON as a Member of Organising Committee on Nov 5th and 6th 2019 at Bengaluru.
- Mrs.Jayasudha BSK, Asst Prof attended 5th IEEE WIECON as a Session Chair, on Nov 5th and 6th 2019 at Bengaluru.
- Mrs.Jayasudha BSK, Asst Prof Participated in IEEE Women in Engineering and Won Best Volunteer Silver Award on 2019 at Bengaluru.
- Mrs.Jayasudha BSK, Asst Prof Participated in IEEE Bangalore Section and Won Outstanding Branch Counsellor on 2019 at Bengaluru.

### PUBLICATIONS

#### BOOKS

- Surekha Borra , Niranjana Dey , Siddhartha Bhattacharyya, Mohamed Salim Bouhleb, Intelligent Decision Support Systems: Applications in Signal Processing (Frontiers in Computational Intelligence), De Gruyter, Oct 2019, ISBN: ISBN: 9783110618686  
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#### BOOK CHAPTERS

- 1.Dr. P N Sudha, Srividya Secrecy capacity of symmetric keys generated by quantizing channel metrics over a fading channel, *Inventive Computation Technologies*, Springer, pp 404-413,2019.  
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#### INTERNATIONAL JOURNALS

- Dr. P N Sudha, Prathima B A, Suresh P. M, Shop floor to cloud connect for live monitoring the production data of CNC Machines, *International Journal of Computer Integrated Manufacturing*, Vol. 33, No. 2, pp 142-158, 2020, ISSN: 0951-192X, DOI: 10.1080/0951192X.2020.1718762  
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- Dr. P N Sudha, Devika B, Power optimization in manet using topology management, *Engineering Science and Technology, International Journal* Vol. 23, No.3, pp 565-575, June 2020, ISSN: 2215-0986.  
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- Dr. P N Sudha, Abihiek A Nandyal, Aditya D M, Karthik K, Manikantan G, Unmanned Underwater Vehicle for Monitoring Aquatic Ecosystem, *International Journal of Engineering Applied Sciences and Technology*, Vol.4, No. 11, pp 493-497, 2020 ISSN: 2455-2143. Impact factor : 4.982  
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- Dr. P N Sudha, Kadri Srinidhi Rao, Jeevitha Kalaashilpa N.C, Bhagya Shree S J, Ashwini S, Literature Survey on A Bore Well Rescue Bot, *International Journal of Latest Engineering and Management Research*, Vol. 05, No.05, pp 5-8, 2020 ISSN: 2455-4847, Impact factor : 2.545  
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- Dr. P N Sudha, Kadri Srinidhi Rao, Jeevitha Kalaashilpa N.C, Bhagya Shree S J, Ashwini S, Rakshak – A Bore Well Rescue Bot, *International Journal for research in Engineering Applications & Management*, Vol.06, No.03, pp 67-69, 2020, ISSN: 2454-9150, Doi : 10.35291/2454-9150.2020.0440  
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