



KSIT
K.S. INSTITUTE OF TECHNOLOGY

Kammavari Sangham (R) - 1952

K.S. INSTITUTE OF TECHNOLOGY

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

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PRERANA-3

Inspire to Innovate

INSPIRATION

**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**

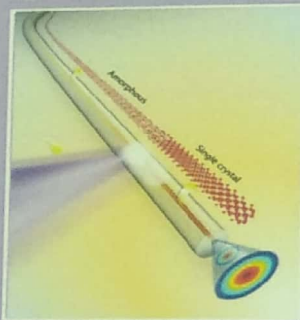
ABOUT THE DEPARTMENT



The aim of our Department is to produce Engineers with self-discipline, high integrity, good personality and Industry ready by providing excellent training. The department organizes many technical workshops, seminars and Technical Talks to bridge the gap between the Industry and academics. The department has several student forums and professional bodies like **IEEE, ISTE, IETE and IEI**. These forums help students to take-up innovative projects, present technical papers and organize various technical events thereby receiving a broader perspective on the professional front by providing opportunities for teamwork, leadership and service.

The department also organizes Non-technical and Cultural events where in student are encouraged to showcase their talent. The department is blessed with very good sportsmen & women and our students have represented both VTU level and National level. The department works by the quote "**Knowledge is Power and Education is most powerful weapon to change the world**".

⇒ LATEST TECHNOLOGY



Fiber optics - scope and evolution :

- **A new method to improve semiconductor fiber optics may lead to a material structure that might one day revolutionize the global transmission of data.**

Researchers are working with semiconductor optical fibers, which hold significant advantages over silica-based fiber optics, the current technology used for transmitting nearly all digital data. Silica -- glass -- fibers can only transmit electronic data converted to light data. Semiconductor fibers, however, can transmit both light and electronic data and might also be able to complete the conversion from electrical to optical data on the fly during transmission, improving delivery speed. The fewer the exits the data takes, the faster the information travels ("fly-by optoelectronics").

They first developed silicon fibers by embedding silicon and other semiconductor materials into silica-fiber capillaries. The fibers, comprised of a series of crystals, were limited in their ability to transmit data because imperfections, such as grain boundaries at the surfaces where the many crystals within the fiber core bonded together, forced portions of the light to scatter, disrupting the transmission.

Another method designed in materials science and engineering, improves on the polycrystalline core of the fiber by melting a high-purity amorphous silicon core deposited inside a 1.7-micron inner-diameter glass capillary using a scanning laser, allowing for formation of silicon single crystals that were more than 2,000 times as long as they were thick. This method transforms the core from a polycrystal with many imperfections to a single crystal with few imperfections that transmits light much more efficiently. Because of the ultra-small core it was able to melt and refine the crystal structure of the core material at temperatures of about 750 to 930 degrees Fahrenheit, lower than a typical fiber - drawing process for silicon core fibers.

"High purity is fundamentally important for high performance when dealing with materials designated for optical or electrical use."

⇒ EVENTS CONDUCTED

- **Annual IEEE Valedictory function** was organized on 29th of April, 2016 by the **IEEE STB and WIE** affinity group. **Dr. Deepa Shenoy**, IEEE Bangalore Section SAC Chair & Prof of Computer science & engg, UVCE, Bangalore had presided over the function as Chief Guest .



- **IEEE-KSIT SB Chair** presenting the IEEE office bearers of the year 2015-16 narrated the activities conducted during the period from 1st Jan to 31st Dec 2015. Annual report was presented by him. **Mrs.Surpiya.V.G**, SB chair, **Dr.P.N.Sudha**, WIE chair, **Mrs.Jayasudha.B.S.K.**, SB counselor, **Mrs.C.V.Reddy**, WIE Branch Mentor, **Mr.Santosh Kumar & Dr.Shanthi Prasad.M.J.**, SB Branch Mentor encouraged IEEE student activities.
- **The Project Exhibition** was organized on 14th May 2016. The project exhibition was inaugurated by **Mr.Ramachandra Naidu**, President Kammavari Sangham, **Mr.Rukmangada**, Treasurer Kammavari Sangham, **Principal & Director Dr.T.V.Govindaraju** and Prof & HOD **Dr. P N Sudha** .



- A visit to an orphanage on 31st July was organized under the collaboration of **IEEE STB Branch of KSIT**. The visit to an orphanage was started by collecting the funds from all the teachers of Electronics and Communication department of KSIT. The HOD of ECE department **Mrs.P.N.Sudha** as well as the IEEE Branch Chair **Mrs.Supriya.V.G** too encouraged the IEEE office bearers in doing one of the good works to the society.



- The event was planned on **July 31st 2016, Sunday** to visit an orphanage-**BELAKU SHISHU NIVASA** by the office bearers of IEEE Students Branch.
- Guest Lecture on **"Applications of Image Processing"** was organized on **20th August 2016** for final year students at 9.45 AM in Mechanical Seminar Hall. Dr. Debabrata Samanta, **Associate professor, Dept. of Computer Applications, Dayananda Sagar College of Arts, Science and Commerce, Bengaluru, India** was the Guest speaker.
- The Guest lecture started at 9.45 AM in Mechanical Seminar Hall. Mrs. Lakshmi Hr Assistant professor, ECE Department welcomed the Guest speaker, HOD of EC Department, Faculty and students for the Guest Lecture. Dr. B. Surekha, Professor, ECE Department introduced the Chief Guest to the gathering.

- **KSIT-IEEE STB IEEE day celebrations conducted on 4th Oct 2016.** All the IEEE student members mingled with the office bearers & execom members of KSIT-IEEE student branch and celebrated IEEE day in a grand way. Dr. Preeta Sharan explained the importance of IEEE, funding provided by IEEE for project works, IEEE paper writing skills and SIGHT- Special interest group on humanitarian Technology. It encouraged students to conduct more of humanitarian activities in and around Bengaluru.



- Dr. Debabrata Samanta delivered the guest lecture. In his lecture, he first stressed about the role of image processing in the modern engineering and information processing systems. He discussed about SAR image processing, operations of SAR antenna and research opportunities.
- The Two day IETE workshop on **"ARM CORTEX" by TENET TECHNETRONICS** was jointly organized by **TCE & ECE Department of K.S.I.T on 27th and 28th of August 2016** in Online Lab, New Building, K.S. Institute of Technology, Bangalore.

- **RASPBERRY PI TWO-DAYS WORKSHOP CONDUCTED ON 23RD & 24TH OCT 2016 AT KSIT.** Professionals gave the introduction to the workshop. After covering the fundamentals of Raspberry Pi, participants were given hands-on training. Mr. Kumar, Assistant Professor, CSE and Instructors from the company helped slow learners to go in pace with the instructions given during the workshop. The major topics covered during the workshop are architecture of Raspberry Pi, Hardware structure, Hardware interfacing with LCD, Serial communication & I/O Devices, Hardware advance include interfacing GPS and Interfacing temperature sensor using ADC, Industry level live projects were discussed in length and skill needed to do better in an industrial environment.



- **KSIT-IEEE STB RC Aircraft workshop** conducted from **30th Sep to 2nd Oct 2016**. Major topics covered are introduction to Aircraft, applications of aircraft, Basics of Flying, Six degrees of freedom, different modes of flight, parts of aircraft and design of RC aircraft. Students actively involved in the calibration process, designing of the wings, and body of the RC aircraft. The workshop helped to co-ordinate and within a team. It made them to understand the design of hand held radio transmitter, servo mechanism (Servos) and wireless communication in a RC Aircraft. The workshop focused on outcome based learning and to involve students to develop live projects at the end.

- A workshop was organized for the 5th semester students of ECE department on management and entrepreneurship on **3rd November 2016**. The topic of the workshop was on **"Management and Entrepreneurship in India"** which also is a part of their curriculum. Totally 54 students from both "A", & "B" sections of the 5th semester attended the program. The event was organized with support from Visweswaraya Trade Promotion Center (VTPC) which helped to arrange the speaker and his remuneration. Ms Prabhavati Rao, coordinator of the IP cell, VTPC, was the point of contact to organize this event.



- A visit to orphanage-DESIRE Society conducted on 21th Jan 2017 in association with IEEE STB .



- Two-days software testing workshop conducted on **5th & 6th Nov 2016** at KSIT. Dignitaries during the inauguration are **Dr.P.N.Sudha** ,HOD, ECE, **Mr.Anantha Somayaji**, CEO, M/S Uniqval, B'lore, **Mr.Sridhar Jois**, Engineer, M/S unival, **Mrs.Jayasudha**, Assistant Prof, ECE, KSIT along with participants. Professionals gave the introduction to the workshop. After covering the fundamentals of Software testing, participants were given hands-on training. Mrs.Jaysudha, Assistant Professor, ECE and Instructors from the company helped slow learners to go in pace with the instructions given during the workshop.

- Technical Talk on "Latest Trends in Wireless Communications" was arranged on 13 th Feb 2017 for 6th Sem students at EC seminar hall in association with IEEE . Mr. Devdas Pie CEO and founder Nanocell technologies was the speaker . The event was organized by Mrs.Sahana Salagare , Asst prof, ECE Dept .



- A two day workshop on **Digital Designing** was organized under IEEE in collaboration with INVATI Media on 20th and 21th of August,2016 at KSIT, Bangalore. The workshop commenced with welcoming the Speaker, **Mr. Biju Mathew, Invati Media (Media Mission)**. An introductory speech was given by Ms.Varsha S Bhat, KSIT WIE STB vice chair which included the agenda of the workshop.

- Two Days workshop on Android and applications conducted on 19th and 20th 2017 in association with IEEE student branch . Mr.Dhananjaya & Robominiane Team Bangalore were the resource person for the workshop .



- A two day workshop on Digital Designing was organized under Faculty Development Program on 18th -21st Jan 2017 "Raspberry Pi and its Applications in IOT " was conducted at K.S.Institute of Technology.

- Guest Lecture on " Field Theory and its Applications in Antenna Design" conducted on 20th feb 2017 which was in association with IETE .Dr. Chaithanya Kumar M.V, Principal HKBK College of Engineering, Bangalore .The event was organized by Dr.Surekha B, Prof, ECE Dept .



- International Womens day was celebrated on 8 th March 2017 in association with IEEE student branch .Sowmya Bhat , Gender activist was the speaker of the day .



- InnovacEEE a 2k17 was conducted on 11th and 12th March 2017 in association with IEEE .



Guest lecture on carrier opportunities was conducted 26 March 2017 in association with IEEE and KSIT Alumni association .Alumines of KSIT ,Mr Akhil M and Sameer Kashyap , Senior Developer , Research and Development lab of Aeronautical development agency, Bengaluru delivered the lecture .



FDP / WORKSHOP ATTENDED BY FACULTY :

- Mrs. Jayasudha B S K ,Asst prof , attended 1 week FDP on "Biosensors" at MSRIT, Bengaluru from 6th to 11th June 2016.
- Dr.P.N.Sudha ,HOD & Prof , Dr.Supriya .V.G and Dr.M.J.Shanthi Prasad , Profs attended four days FDP on " Analog Power Embedded System ,Wire(IOT) Hands on Workshop", organized at Reva University ,Bengaluru on 11th June 2016 to 14th June 2016.
- Mrs.Sahana Salagare ,Mrs.Jayasudha B.S.K, Mr. Santhosh Kumar , Mr.Christo Jain and Mr. Saleem Tevarmani ,Asst Profs attended two days FDP on " Synopsis writing towards Ph.D application " , organized at KSSEM ,Bengaluru on 24th June 2016 to 25th June 2016.
- Mrs.Priyadarshini.J.Patil , Asst Prof attended five days FDP on " Trends in Industrial Measurements", organised at MSRIT , Bengaluru from 27th June 2016 to 1st July 2016.
- Dr.Surekha.B , Prof , Mrs.Lakshmi.H.R and Sampath Kumar.S , Asst Profs attended three days FDP on "Linear Algebraic & its Application in Computer Vision " , organized at JSSATE ,Bengaluru on 13th July 2016 to 15th July 2016.

- Mr.Sudharshan. B,Asst Prof attended two days National Workshop on "NBA" at JSSATE ,Bengaluru on 26th and 27th August 2016.
- Mr.Sampath Kumar ,Asst Prof ,attended two days workshop on " Research Methodology" at Cambridge Institute of Technology , Bengaluru on 21st and 22nd October 2016.
- Dr.M.J.Shanthi Prasad ,Prof, Mr.Praveen.A and Mrs. Anitha .S.K ,Asst Profs attended one day National Conference on "Cadence VLSI" at Chancery Pavillion ,Bengaluru on 6th December 2016.
- Mrs.Lakshmi.H.R and Mrs.Anitha.S.K attended five days National Conference on " Cadence VLSI" ,organized at BNMIT , Bengaluru on 6th December to 10th December 2016.
- Mrs.Pragati.P , and Mr. Saleem .S.T ,Asst Profs attended a six days FDP on "Machine Learning Algorithms and Applications" ,organized at Global Academy of Technology , Bengaluru on 23rd January 2017 to 28th January 2017.
- Mrs.Jayasudha.B.S.K ,Asst Prof attended two weeks FDP on "Enterpreneurship Development" organized at ACS College of Engineering ,Bengaluru on 16th January 2017 to 30th January 2017.
- Dr.P.N.Sudha , HOD and Prof , Dr.Supriya.V.G, Dr.M.J.Shanthi Prasad , Dr.B.Surekha , Dr.Sudharshan. B , Profs, Mrs.Sahana Salagare, Mrs.Prathima.B.A, Mrs.Sangeetha.V , Mr.Sampath Kumar.S , Mr.Sunil Kumar.G, Mr.Praveen.A , Mr.Christo Jain , Mr.Saleem S.T ,Mrs.Pragati .P , Mr.Vikram.R.L , Mrs.Priyadarshini.J.Patil , Asst Profs attended three days FDP on " Raspberry Pi" , organized at KSIT ,Bengaluru on 18th January 2017 to 21 st January 2017.

FACULTY ACHIEVEMENTS :

- Dr. Surekha B has been Awarded with "Best Young Women Scientist" award in National Conference on "SMART SUMMIT-2016" organized by Pearl Foundation, Madurai on 10th December 2016.
- Dr. P N Sudha Delivered a Technical Talk on "Coding techniques used in Wireless communication" at JSS on 30th August 2016.
- Dr. P N Sudha has been the reviewer for Malaysian International Journal "Journal of Engineering Science and Technology [JESTEC], 7th international Conference Science of Electronics, Technologies of Information and Telecommunications [SETIT-2016]held at Hammamet -Tunisia held on 18th to 20th December, International Journal on Advanced research [IJRC], IEEE Conference,ICEECCOT 2016.
- Dr. Supriya V G and Dr. P N Sudha have been the reviewer for IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT-2016), 9th-10th December, 2016 held at GSSSIT, Mysore.
- Dr. Surekha B has been the reviewer for "Computer Standards & Interfaces (CSI)- Elsevier" and "Information Sciences (INS)- Elsevier", the 7th Springer International Conference on Sciences of Electronics, Technologies of Information and Telecommunications (SETIT 2016),

- Hammamet - Tunisia, 18th - 20th December 2016, **IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECOT-2016)**, 9th-10th December, 2016 held at GSSSIT, Mysore.
- **Prof. Sangappa S B** was the Guest of Honour at the 13th state level **ISTE Students' Annual Convention "E-Pravarthana"** held at JSSATE on 25th August 2016, FDP on "Educating the Educators" at BKIT, Bhalki on 1st July 2016.
- **Prof. Sangappa S B** attended the National Executive Council Meeting on 10th July 2016 at HVPMS—COET at Amaravathi, Maharashtra.
- **Prof. Sangappa S B** was Deputed as Inspection Committee member by ISTE New Delhi to VIT Vellore and visited on 29th August 2016.

PUBLICATIONS

- **B. Surekha, S. Viswanadha Raju, Lakshmi H R**, "Visual Cryptography based Lossless Watermarking for Sensitive Images", Springer series on Lecture Notes in Computer Science (LNCS), Vol. 9873, Chapter 3, pp.29-39, 2016. [Ebook ISBN 978-3-319-48959-9].

International Journal Publications

- **Dr. P N Sudha, Srividya L**, "Literature Survey on Recent Audio Encryption Techniques", International Journal of Electronics and Communication Engineering and Technology (IJECET), Vol. 7, No. 6, 2016, pp. 91-95, ISSN:0976-6472.
- **Sangappa S B, Sanjeev Gupta, C.Keshavamurthy**, "Cross Layered Network Condition Aware Mobile WSN Routing Protocol for Vehicular Communication System", International Journal of Computer Science and Information Security (IJCSIS), Vol. 14, No.9, 2016, pp.1114-1121, ISSN: 1947-5500.
- **Vishalini Divakar, Dr. M. S. Raviprakash, Dr. B. K. Keshavan**, "A Survey on Methods of Evaluation of Reliability of Distribution Systems with Distributed Generation", International Journal of Engineering Research and Technology (IJERT), Vol. 5, No.8, 2016, pp. 220-226, ISSN: 2278-0181.
- **Sahana Salagare, Dr. P N Sudha, Dr. Karthik P.**, "A Survey on Applications and Challenges of Underwater Wireless Sensor Node", International Journal of Engineering Trends and Technology (IJETT), Vol. 41, No. 4, 2016, pp. 201-204, ISSN: 2231-5381.

INTERNATIONAL CONFERENCES

- **Dr. Supriya VG**, "Logistic Map for Cancellable Biometrics, International Conference on Advanced Material Technologies ICAMT-2016, Dadi Institute of Technology, Vishakhapatnam, Andhra Pradesh, 27th-28th Dec 2016.
- **D. V. Rajeshwari Devi, Dr. K. Narasimha Rao**, "A Multimodal Biometric System using Partition based DWT and Rank Level Fusion", IEEE International Conference on Computational Intelligence and Computing Research, Agni College of Technology, Chennai, Tamil Nadu. 15th-17th Dec 2016.

FACULTY COMPLETED Ph.D :



- Mrs. Supriya V.G has completed PhD from Jain University on the topic "Augmented Security based on cancellable biometry".



- Mr. B. Sudarshan has completed PhD from Jain University on the topic "Analysis of content organization and retrieval in graded memory".

FUNDED PROJECTS IN 2016-17:

- Under the guidance of Dr. Surekha B, Prof, Dept of ECE, received grant of 50,000/- for months for project titled - "Automatic blister pack quality monitoring system for small and medium pharmaceutical firms" from IE (I) R&D Grant in aid scheme and rs 5000/- for 6 months from KSCST Grants SSP-39th series.
- Under the guidance of Mrs. Jayasudha B S K, Asst Prof, Dept of ECE, received a grant of 5,000/- for 6 months for project titled "Sensovision-an aid for visually impaired" from KSCST Grants SSP 39th series.
- Mr. Vikram R Lakkavalli, Asst prof, Dept of ECE received a grant of 75,000/- for 6 months for project titled "Text to speech synthesizer for kannada" from Dept of kannada and culture.

STUDENTS ACHIEVEMENTS IN SPORTS:

- **Deemanth.K.P & Tejas.P** of 1st semester and **Yash Rai** of 3rd semester ECE have represented our college in the **BASKET BALL** tournament organized by **GAT Bengaluru** on 6th & 7th of September 2016 and our college team successfully qualified for the **QUATERFINALS**.
- **Ratan Bhagat & Sanjana.S** of 3rd semester and **Chandana.R & Vismitha.S.S** of 1st semester ECE have represented our college in the **BADMINTON** tournament organized by **SJBIT BANGALORE** on 21st & 22nd of September 2016.
- **Madhu** of 1st semester, **Darshan.M.K** of 3rd semester, **D.R.Uday** of 5th semester and **Jeevan.D.B, Akshay.H.B.Srivatsava & Puneeth** of 7th semester ECE have represented our college in the **CRICKET** tournament organized by **RRCE Bengaluru** on 17th 19th & 20th of September 2016 and our college team successfully qualified for the **QUATERFINALS**.
- **Neha.N.V** of 1st semester, **Bhamini.R & Mayanka.Gupta** of 3rd semester and **Prakathi.R** of 5th semester ECE have represented our college in the **CHESS** tournament organized by **Vemana IT Bengaluru** on 17th & 18th of September 2016.
- **Aakash .P.S** of 6th sem ECE has participated in the **Akhila Karnataka Sports Karate Association of Karnataka 9th State level karate championship** on 2nd April 2017 and has won the first place and third place in under 21 year age category.
- **P M Rohith Babu** of seventh sem has been awarded the "**Best Student Award**" at 13th State level ISTE student's annual convention "**E-Pravarthana**" held at **JSSATE** on 25th August 2016.

- **Suma.B.S & Sadhvikha Chandra.R** of 1st semester ECE have represented our college in the **THROW BALL** tournament organized by **PESIT Bengaluru** from 4th to 6th of October 2016 and have successfully secured **2nd Place**.
- **Suma.B.S & Sadhvikha Chandra.R** of 1st semester ECE have represented our college in the **THROW BALL** tournament organized by **Jyothi IT Bengaluru** on 7th and 8th of October 2016 and our college team successfully qualified for the **Semi Finals**.
- **Shreyashwini.V** of 1st semester ECE has done us proud by representing the **VTU Cricket Team** in **South Zone Inter-university Cricket tournament 2016-17** held at **Sathyabama University Chennai** from 10th to 15th of October 2016. She will further be a part of the coaching camp held from 6th to 9th of October 2016 in **NIET Mysore**.
- **Bhavya.P** of 7th semester ECE has represented our college in **POWER LIFTING** tournament organized by **GAT Bengaluru** held from 11th to 13th of November 2016.
- **Sadhvikha Chandra.R** of 1st semester, **Varalakshmi.N** of 5th semester and **Bhavya.P & Akshay.H.B** of 7th semester have represented our college in **ATHLETICS** tournament organized by **Dr.TTIT KGF** held from 14th to 18th November 2016.

CULTURAL ACHIEVEMENTS :

- **Gowtham.R** of 4th semester ECE has represented our college and successfully secured **1st Place** in **SOLO DANCE** competition organized by **DSCE Bengaluru** on 1st of April 2016.
- **Alekhyha Raghunath** was the winner of the event that was held on October 4th 2016 organized by **IEEE KSIT student branch**.
- **Jeeven D B** of VI sem and **Premsagar** of VIII sem ECE has secured II place in **Short film** event conducted on 2nd April 2016 at **KSIT**.
- **S Navya sri** of VIII sem ECE is awarded as **Best out going student** of the year 2016.
- **Suresh K** of VIII sem ECE has secured II prize for **MAD ADS** during the **TECHNO CULTURAL FEST "MANTHANA"** on 15th & 16th April 2016 HELD at **Bangalore Institute of Technology**.
- **Amith Srikanth** of IV sem ECE has secured **First Place** in **COUNTER STRIKE EVENT** conducted on 2nd April 2016 at **KSIT**.
- **Premsagar** of VIII sem ECE has secured **First place** in **"SHORT FILM"** event conducted on 2nd April 2016 at **KSIT**.
- **Shreyas R. Y** of IV sem ECE has secured **second place** in **COUNTER STRIKE EVENT** conducted on 2nd April 2016 at **KSIT**.
- **Rahul .K.N, Praveen T.E, Rakesh.S** presented a paper about **"Real Time Aid for Deaf and Dumb"** on 20th May 2016 at **AMC Engineering college, Bangalore** on the occasion of **National Conference on "VLSI, COMMUNICATION AND COMPUTER NETWORKS (VCCN-4)"**.
- **Siri.T.Bhat, Shreesha Raghavan** presented a paper about **"Multipurpose Wheelchair control using simple hand"** on 28th April 2016 at **K.S School of Engineering and Management, Bangalore** on the occasion of **"National Conference on Advanced Communication ,VLSI Design and Signal Processing"(NCCVS-16)**.
- **Amulya ,Parvathamma .M** presented a paper about **"Digital Image Water marking- A survey"** on 28th April 2016 at **K.S School of Engineering and Management, Bangalore** on the occasion of **"National Conference on Advanced Communication ,VLSI Design and Signal Processing"(NCCVS-16)**.
- **Shreesha Raghavan, Siri.T.Bhat** presented a paper about **"Sparsh glove: A gesture based hardware control for a smart elevchair"** on 27th and 28th April 2016 at **CITY engineering college** on the occasion of **"International conference on "Computer Science and Technoloy Allies in Research (ICSTAR_2016)**.
- **Ratish Rao .N** presented a paper about **"Automatic Tablet Pack Quality Monitoring system for small scale pharmaceutical firms"** on 16th and 17th March 2016 at **Adhiyamaan College of Engineering, Tamil Nadu** on the occasion of **National conference "ICVE 2k16"**.
- **Ganesh V.S, Yogesh.P ,Divya Kumar N,Vishnu Raju G,** presented a paper about **"Production of electricity through Pressure Based Sensors"** on 27th and 28th April at **CITY engineering college** on the occasion of **"International conference on "Computer Science and Technoloy Allies in Research (ICSTAR_2016)**.
- **Megha Shree G.N** presented a paper about **"Low cost Inverter using H-Bridge to convert Solar Energy "** on 5th and 6th May 2016 at **T.JOHN Institute of Technology** on the occasion of **International Conference on "Engineering Science, Management and advances in research technology(ICESMAT-16)**.
- **Pooja R, S.Navya Sri, Sumithra B, Sushma S.N** presented a paper about **"Sensovision an Aid for the visually impaired"** on 11th and 12th May 2016 at **AMC Engineering College, Bangalore** on the occasion of **4th International Conference on "Advanced Computing Techniques(ICACTION-2016)"**.
- **Pooja R, S.Navya Sri, Sumithra B, Sushma S.N** presented a paper about **"Sensovision an Aid for the visually impaired"** on 28th April 2016 at **K.S. School of Engineering & Management, Bangalore** on the occasion of **National Conference on "Advanced Communication, VLSI Design & Signal Processing"(NCCVS-16)**.
- **Ashritha .S, Aishwarya N** presented a paper about **"Low cost Blister quality monitoring system"** on 28th April 2016 at **K.S. School of Engineering & Management, Bangalore** on the occasion of **National Conference on "Advanced Communication, VLSI Design & Signal Processing"(NCCVS-16)**.

PAPER PRESENTATION :

- **Divya Kumar.N, Ganesh.V.S, Vishnu Raju M& Yogesh.P** of 8th semester ECE have presented the paper **"Production of Electricity through a Pressure Based Sensor"** at **City College of Engg. Bangalore** on 27th April 2016.
- **Pavan Kubair** of 8th semester ECE has presented the paper **"Introduction to BLE System Design"** at **Cypress** on 24th of January 2016.
- **Pavan Kubair** of 8th semester ECE has presented the paper **"Agri Neers"** at **IIT Madras** on 10th of January 2016.
- **Rakesh Basavarju, Ajith Janardhan ,Supriya. S.V** presented a paper about **"Raspberry-Pi based GSM controlled LCD display notice board"** on 20th May 2016 at **AMC Engineering College Bangalore** on the occasion of : **National Conference on "VLSI,COMMUNICATION AND COMPUTER NETWORKS (VCCN-4)"**.

- **Abhilash, Abhishek K.T, Jagdish P.N, Kiran R Diggavi** presented a paper about **"Advanced pedestrian Monitoring system with Accident Avoidance and BAN based security system"** on 5th May 2016 at Global Academy of Technology, Bangalore on the occasion of National conference on "Recent Trends in Electronics and Communication – 2016(NCRTEC-2016)".
- **Faizuddin .N, Suraksha Aithal, Swathi Prabha H.V, Swathi G** presented a paper about **"Autonomous valet parking system"** on 28th April 2016 at K.S School of Engineering & Management on the occasion of National conference on " Advanced Communication , VLSI Design and Signal Processing " (NCCVS-16).
- **Faizuddin .N, Suraksha Aithal, Swathi Prabha H.V, Swathi G** presented a paper about **"Autonomous valet parking system"** on 27th&28th April 2016 at CITY Engineering College, Bangalore on the occasion of International Conference on "Computer Science and Technology Allies in Research (ICSTAR-2016)".
- **Madhavi H.V, Ashwini Gowda** presented a paper about **"FPGA Implementation of efficient Multiplier using reversible logic based circuits"** on 17th May 2016 at Shri Krishna Institute of Technology, Bangalore on the occasion of " Innovative Technologies in Electrical & Electronics Engineering" (NCITEE - 16).
- **Anushree .R** presented a paper about **"Design and Development of Low Area, high speed mixed column unit of AES on FPGA"** on 05th May 2016 at Dayanand Sagar Academy of Technology and Management, Bangalore on the occasion of National Conference on " Convergence of Science Technology and Management (NCCSTM-2016)".
- **Misbah Rehman .T, Kavya .B** presented a paper about **"Quadrate of Spraying Pesticides"** on 07th May 2016 at SJBIT, Bangalore on the occasion of 07th National Conference on "Advanced Techniques in Electrical and Electronics Engineering" (NCATEE-16).
- **Dr.P.N.Sudha, Abhishek .J, Manjesh .B, Ranjith .B.S, Potla Rajendra** presented a paper about **"Smart and Energy Efficient Green House Management using GSM modem"** on 28th April 2016 at K.S. School of Engineering and Management, Bangalore on the occasion of National Conference on "Advanced Communication, VLSI Design and Signal Processing" (NCCVS-16).
- **A.Ajay Kumar Reddy, A.Santosh Kumar, Bharath .P.S, Ravilla Lokesh** presented a paper about **"Autonomous Multistage Air Purification System"** on 28th April 2016 at K.S. School of Engineering and Management, Bangalore on the occasion of National Conference on "Advanced Communication, VLSI Design and Signal Processing" (NCCVS-16).
- **Saleem S Tevaramani, Navneeth .S.M, Basam Kishore Kumar, Leela Sandeep .A, C.Sharath** presented a paper about **"Vehicle Emission Detection and Notification System based on internet things"** on 05th May 2016 at Global Academy of Technology, Bangalore on the occasion of National Conference on "Recent trends in Electronics and Communication - 2016(NCRTEC-2016)".
- **Sahana .G Thanushree .B.K, Divya .B.K, Suresh .K** presented a paper about **"Automatic Vehicle Speed Control"** on 17th May 2016 at Shri Krishna Institute of Technology, Bangalore on the occasion of National Conference on "Innovative Technologies in Electrical and Electronics Engineering" (NCITEE-16).
- **Mr. Sampath Kumar.S, Manoj Kumar Buyya .S, Omprakash .G, Chethan .S.K, Narayana .S.R** presented a paper about **"Automatic Speed vending machine using Smart Card and GSM"** on 17th May 2016 at Shri Krishna Institute of Technology, Bangalore on the occasion of National Conference on "Innovative Technologies in Electrical and Electronics Engineering" (NCITEE-16).
- **Mrs. Supriya .V.G, Vaishnavi Devi, Varhitha .G, Vinaya Singh .P, Ziaba** presented a paper about **"Automatic of eye checkup"** on 08th May 2016 at Hyderabad on the occasion of International Conference of Science, Technology, Engineering and Management (ICSTEM).
- **Mrs. Supriya .V.G, Shruthi .R.C, Akhila .G.N, Madhumathi .M Gurav, Kaveri** presented a paper about **"Automatic Voting using RFID"** on 17th May 2016 at Shri Krishna Institute of Technology, Bangalore on the occasion of National Conference on "Innovative Technologies in Electrical and Electronics Engineering" (NCITEE-16).
- **Swathi .S, Shobhana .S** presented a paper about **"Hardware Implementaion of water marking – Importance and Survey"** on 27th and 28th April 2016 at CITY Engineering College, Bangalore on the occasion of International Conference on "Computer Science and Technology Allies in Research (ICSTAR-2016)".
- **Dr. Shanthiprasad .M.J, Shruthi .B.S, Shetty Adarsh.N, Shivaprasad .B** presented a paper about **"Design and Implementation of Low Power 4 bit Flash ADC in 180nm CMOS Technology using custom design approach"** on 05th May 2016 at Global Academy of Technology, Bangalore on the occasion of National Conference on "Recent trends in Electronics and Communication -2016(NCRTEC-2016)".
- **Soumya Mahadevappa Chandanavar, Ranjitha .B.C, Shalini .K, Priya .B** presented a paper about **"Tumor Detection using NAT Lab and Microcontroller"** on 28th April 2016 at K.S. School of Engineering and Management, Bangalore on the occasion of National Conference on "Advanced Communication, VLSI Design and Signal Processing" (NCCVS-16).
- **Basavarju .S, Manu Hebbar, Hemesh G.C, Pavan Kumar .G** presented a paper about **"Solar Powered Security enabled Intelligent Auto fare Meter"** on 05th May 2016 at Dayanand Sagar Academy of Technology and Management, Bangalore on the occasion of National Conference on " Convergence of Science Technology and Management (NCCSTM-2016)".
- **Chandresh .P,M, Abhishek .P, Bharath .K.R, Karthik .S** presented a paper about **"Anti Privacy Screen using VLC"** on 02nd and 03rd May 2016 at JSS Academy of Technical Education, Bangalore on the occasion of 02nd National Conference on "Advancements in Information Technology".
- **Nazare Kanchan, Jayant** presented a paper about **"Smart Attendance Management Systems"** on 28th April 2016 at K.S. School of Engineering and Management, Bangalore on the occasion of National Conference on "Advanced Communication, VLSI Design and Signal Processing" (NCCVS-16).

PROFESSIONAL CLUB DETAILS :

- **IEEE:** KSIT IEEE Student Branch has been recognised as the active student branches by the IEEE Bangalore Section. This student chapter has been highly involved in the technical development of students by conducting workshops and technical talks.
- **ISTE:** ISTE formulates and generates goals and responsibilities of technical education. Seminars, workshops, conferences are organised on topic of relevance to technical education for engineering students as well as teachers.
- **IEI:** The Institution of Engineers India (IEI) is the national organisation of Engineers in India. IEI in KSIT promotes an environment to enable ethical pursuits for professional excellence.
- **IETE:** IETE focus on advancing electro-technology. The vision of IETE is reaching the unreached and empowering the youth through technical education and skill development. IETE conducts workshops and technical talks on various technical topics.

100% RESULTS :

- RF and Microwave Design **Dr.P.N.Sudha**
- Advanced Embeded System **Mrs.Jayasudha BSK**
- DSP and Architecture **Mrs.D.V.Rajeshwari**
- Optical Comm & Networking **Mrs.Sahana Salagare**
- Advanced Radar systems & Wireless communication **Dr.Surekha B**
- Wireless Communication **Mr.Sangappa S.B.**
- Digital Switching Systems **Mr.B.Sudarshan**
- Fundamentals of HDL **Mr.B.R.Santhosh Kumar**
- Wireless communication & ECC **Mrs.Sangeetha.V.**
- AVLSI Design **Mr.Praveen .A.**
- Network Security **Mr.Saleem S Tevarmani**
- Digital Switching Systems **Mrs.Lakshmi H.R.**

MAGAZINE :

- **IEEE Potentials** explores career strategies, the latest in research, and important technical developments. Through its articles, and it also relates theories to practical applications, high lights the technology's global impact, and generates international forums that foster the sharing of diverse ideas about the profession.
- **Electronic Design** magazine presents complete coverage of the industry from emerging technologies to large-scale trends. In Electronic Design's Techview sections, technology editors. The latest news and products in each industry: Analog & Power, the Digital, EDA, Communications, Test, and Wireless.



CONGRATULATIONS TO TOPPERS :



SWATHI K S
1KS15EC101
9.25 CGPA



RAKSHITHA S
1KS15EC074
9 CGPA



PRAGATHI R
1KS14EC074
82.56%



YUKESH R
1KS14EC118
79.22%



MANASA M
1KS13EC044
79.11%



PALARLAPALLI
ROHITH BABU
1KS13EC055
78.00%



NAVYA SRI
1KS12EC072
85.33%



SUMITHRA B
1KS12EC087
83.73%

Industrial Visit

ELECTRONICS & COMMUNICATION ENGINEERING

- On Sunday, the 11th of September, 'India International Innovation Fair' held at Bangalore International Exhibition Centre (BIEC). The industrial visit was conducted by KSIT under the collaboration of IETE and was guided by Dr.Surekha, Mr.vikram, and Mrs.Rajeshwari Devi. 'Makerdemy - learn explore make' was one of those stalls which provided students several online courses at reasonable price. The courses include embedded system courses, IOT courses etc. The industrial visit was organised under the Prior permission of our principal Dr.T.V.Govindaraju and HOD of ECE department Dr.P.N.Sudha.



IIIF
2016

- On Sunday, the 11th of September, 'India International Innovation Fair' held at Bangalore International Exhibition Centre (BIEC). The industrial visit was conducted by KSIT under the collaboration of IEEE and was guided by Dr.Surekha, Mr.vikram, and Mrs.Rajeshwari Devi. It was a business exhibition where many companies presented their projects as well as their products. Some of the companies are cleantech ,Innovation program India ,CABTOP, IFIA Projects , Green paper works , Andhra Pradesh innovation society was also a part of this fair.



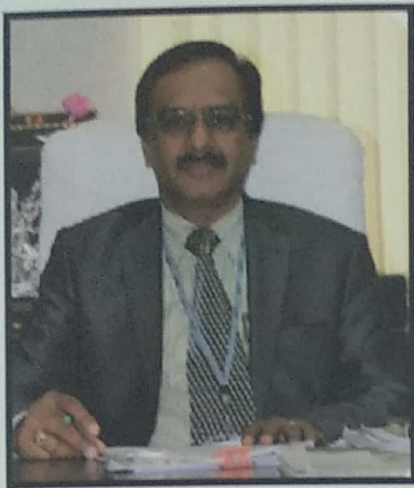
- Industrial Visit to BIEC Bangalore was arranged for Faculties of KSIT on 28th Jan 2017 in association with IETE .IMTEX 2017 was showcased machine tool accesories , metrology and CAD/CAM cutting tools , tooling system and current trends in the tooling industry .It was really intresting for us to see the micron resolution sensor operation and the technology involved with the meassurements .



- Industrial Visit to IISC Open day conducted on march 4th 2017 in association with IEEE and ISTE . It was arranged for all semester students of ECE . All the students visited various stalls where research scholars kept their models to explain their works which were very inresting such as epidemulogy , LIFI , wipsen photonics ,seamox , green wireless charging , generation of wireless communication and so on .



Principal's Message



Dear staff and students :

- I think it is a good time where we can reflect on what we have achieved / learnt /learning in this academic year . As u reflect I hope the year has been a fruitful one and you may want to consider how we can make it better in our future endeavour's. This issue of newsletter apart from showcasing the academic pursuits also features how we have maintained harmonious relation in our campus .The commemoration and celebrations are important as part of our educational process . There are articles which showcase on how we strive to developed various scales in our students , how we reached out to college and our involmnet in community services .Successful staff motivate students leading to student success .I would also like to take this opportunity to wish everyone best wishes .

Dr.T.V. GOVINDARAJU

Principal/Director

HOD's Message



- Our institute aims in all-round development of the students by providing various opportunities for them to exhibit their talent. We believe that Knowledge is power and education is the most powerful weapon to change the world. In ECE department we work with the theme of imparting quality education by exposing our students to recent trends & developments in various fields in Electronics and communication engineering through Conference, workshops and Technical talk. This issue of news letter showcases various events organized in our department. This issue highlights our emphasis for continuous improvement and overall development of the students.
- I would like to thank our Management & Principal for their continuous support in organizing various events in our dept.

Dr. P.N Sudha

Professor and Head

Dept. of Electronics & Communication Engg.

ECE EDITORIAL TEAM :





VISION OF THE DEPARTMENT :

- To achieve academic excellence and to promote research in Electronics and Communication imbued with professional skills, ethical values to meet industry and societal needs.

MISSION OF THE DEPARTMENT :

- To impart quality technical education with the state-of-the-art technologies to produce industry ready engineers.
- To provide a conducive learning and interactive environment with emphasis on entrepreneurial development skills.
- To promote industry- institute collaborations for Research and development.
- To train the students in developing and applying technology for the betterment of society with ethical values

**DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING**