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K.S. INSTITUTE OF TECHNOLOGY

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K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bangalore - 560062 Tel : 080 - 28435722 / 24 Web : www.ksit.ac.in



ಚಿಂತನ-ಮಂಥನ

Vol.3, AUGUST 2015

CHINTHANA



MANTHANA

Think Beyond Imagination...

ಚಿಂತನದ ಮುಂದೆ ಇರುವುದು...



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Dear students,

Move steadily forward and towards your goal of becoming a true Engineer. This Newsletter will enlighten your thought which addresses the activities of all the department and its achievement. You should feel proud that you are the inheritors of

a great heritage of your motherland and say proudly that you are Indian. You should take all the good from modern scientific knowledge and also from the ancient treasure of knowledge. You should acquire knowledge on value based life from your parents, teachers, elders and also from the messages of great scholars. You should remember that there are positive and negatives in the life and prepare always to face any challenges in the life with a stabilized mind. You should know Indian achievements in the field of Information technologies, computer science, communication, automobile, agriculture, industrial, atomic energy, defense science, aviation and spiritual science. You should prepare to build a happy and very useful glorious life with a scientific vision, patriotic mission, and for leading a very useful personal and social life.

Whatever may be the limitations of our nation and culture, ours is the only nation which prayed "saha-naa-vavathu saha-now-bhunaktu saha-veerayamkaravaavahai tejaswinaa-vadheethamastu maa-vidvishaavahai" - let us exist together, let us share the result of the work together, let us work together, let us enlighten ourselves and let us not hate anyone.

WISH YOU ALL A GREAT SUCCESS IN YOUR LIFE.

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



**Sri Y Ramachandra Naidu
President**



**Sri K Venkatesh Naidu
Secretary**



**Sri D Rukmangada
Treasurer**

The days are shorter and cooler but we have made a very smooth resumption following the well earned and much needed semester break . We are very proud of the progress and achievement that have happened in the college and wish to congratulate the newsletter team who have toiled very hard to give an overview of the activities organized in our campus.

Newsletter provides a platform to convey the same. Congratulations to the editorial for successfully launching the third edition of the collage newsletter "CHINTHANA MANTHANA"

GOOD LUCK

EDITORIAL TEAM



Editorial team is proud to launch the 3rd edition of the college newsletter "CHINTHANA MANTHANA."

All the latest technologies, activities executed by different departments have been compiled and published in this edition.

ABOUT THE DEPARTMENT

Apparently **Mechanical Department** has a lot to contribute to college's reputation among other engineering institutions and Universities as a whole. In the recent history there have been many success stories which have pushed the department to new heights. BAJA milestone is the highlight of all. Twenty five enthusiastic engineering students built an off road buggy and **won 2nd place** in Cost Report Event in BAJA 2015 competition held at Indore. Not to forget, they competed for the first time! Now the BAJA team is geared up for competing in BAJA 2016 and looks like the team has already started its journey to glory. The department is providing many sources to harness knowledge by conducting various seminars and technical talks and is helping students to be updated on new trends. Our 1st batch got funding of seven thousand rupees from **Karnataka State Council for Science and Technology (KSCST)** for their final year project.

⇒ LATEST TECHNOLOGY

Plastic in Internal Combustion Engine!



Efforts to produce lighter vehicles necessarily include engine parts, such as the cylinder casing, which could shed up to 20 % of its weight if it were made of fiber-reinforced plastic rather than aluminium – without added costs.

In the future, car manufacturers will be able to achieve further weight savings by designing cylinder blocks in which certain parts are made of fiber-reinforced

plastics. An experimental engine developed by the Fraunhofer project group for new drive systems (NAS), Fraunhofer Institute for Chemical Technology ICT, Japan, demonstrates this principle. They used a fiber-reinforced composite material to build a cylinder casing for a one-cylinder research engine, the cylinder casing weighs around 20% less than the equivalent aluminium component, and costs the same. It seems an obvious solution, but getting there involved numerous technical challenges, because the materials used, have to be able to withstand extreme temperatures, high pressure and vibrations without suffering damage.

The characteristics of the plastic material also play an important role. It needs to be sufficiently hard and rigid, and resistant to oil, gasoline and glycol in the cooling water. It must also demonstrate good adherence to the metal inserts and not have a higher thermal expansion coefficient than the metal – otherwise the inserts would separate from the substrate. Team uses a glass-fiber-reinforced phenolic composite, which fulfils all of these requirements and comprises 55% fibers and 45% resin. A lighter-weight but more expensive alternative is to use a carbon-fiber-reinforced composite – the choice depends on whether the carmaker wishes to optimize the engine in terms of costs or in terms of weight.

The researchers produce these components from

granulated thermoset plastics using an injection moulding process. The melted composite material, in which the glass fibers are already mixed with the resin, hardens in the mould into which it was injected. The scientists analysed the process using computer simulations to determine the best method of injecting the material in order to optimize the performance of the finished product. The process is compatible with mass production scenarios and the manufacturing costs are significantly lower than those for aluminium engine parts, not least because it eliminates numerous finishing operations. Initial data also indicates that the amount of heat radiated to the environment is lower than that generated by aluminium-based engines. The scientists intend to take their research further by developing a multi-cylinder plastics-based engine, including the crankshaft bearings.

⇒ EVENTS CONDUCTED

♦ “Unleashing New Technologies Using 3D Printing”

A technical talk on 3D printing was conducted on February 10th 2015 at Mechanical Seminar Hall. This Program was presided over by **Mr. Vidya Shankar M N, Business Manager and Head, Institute of Industrial Design.**

He enlightened the students of 6th semester, regarding the various technological trends that have huge demand in the current market scenario such as Reverse engineering, 3D printing, Automotive Body design ;



regarding the various technological trends that have huge demand in the current market scenario such as Reverse engineering, 3D printing, Automotive Body design, Aerospace Body design, Mechanism design and the significance of the various tools was highlighted such as ANSYS Fluent, Solid Works Motion, AUTODESK ALIAS, CREO Simulate. The above programme was attended by about 130 students and faculty of mechanical engineering department.

◆ Faculty Development Programme

It was learning time for Post Graduate students and



faculty members on the onset of “FIVE DAYS FACULTY DEVELOPMENT PROGRAMME on ANSYS - SOLUTION FOR GENERAL MECHANICAL ENGINEERING PROBLEMS”, organized by the Department of Mechanical Engineering from 23rd February, 2015 at KSIT campus. The august gathering had the chief guest **Mr. Ganapathi Manickam**, Vice President & Head Design Validation Engineering Solutions, Tech Mahindra.

Mr. Nagabhushan M, Associate Professor, Dept. of Mechanical Engineering, KSIT, was the resource person for the programme. They shared their valuable knowledge about the above mentioned topic and struck a positive chord about the subject among the participants. This programme was attended by PG students and faculty members from various other colleges. This program provided application of ANSYS (FEA-software) in the real applications along with the theoretical estimations to the user community.

◆ All India Seminar on Business and Product Excellence Through Design for Manufacturing (DFM)



K.S.I.T in association with The Institution of Engineers organized an **ALL INDIA SEMINAR ON BUSINESS AND PRODUCT EXCELLENCE THROUGH DFM**. It was a 2 day

seminar held on 19th & 20th march 2015 which was addressed by the most eminent speakers like **Padmashri Vasagam R M, ProChancellor, Dr. M.G.R. Educational and Research Institute, INDIA; Dr. Wooday P Krishna, Chartered Engineers, Registered Valuers & Arbitrators; Dr. K Gopalakrishnan, working group member, National Design and Research Forum (NDRF)**, Bangalore and many such achievers. They emphasized on how satisfying customers need is as important as technology in industries in order to enhance the economical growth of the country. The topics of discussion were Make in India Concept, new production introduction & business excellence, DFM concepts, hastening NPI through DFM, Design for Quality, Design for Low-cost, sustainability, quick production and maintenance. In this context, industries should not only look up to technologies but also consider the designs suitable for manufacturing seriously, which has a major impact on industries and surely a boost to industrial business in the days to come. The seminar threw light on social aspects of manufacturing which got budding engineers think in entrepreneurial way.

◆ Enigma

On March 4th 2015, folks of KSIT were put into **ENIGMA** mode by the Team **EMANATION**. Team hosted the event ENIGMA which was basically a technical & non-technical event whose theme was based on 'puzzle'. It had 3 hurdles to cross namely Does Grey Matter? , the Maze Runner and Know It All. The 1st round was a simple quiz round, the 2nd round was indeed a brainstorming math puzzle. It was a theoretical treasure hunt where the path to treasure had to be traced by solving mathematical problems. The final round was a stress buster one, where students got to enjoy few games. The event attracted a big crowd and was a blend of fun, learning, competing and amusement. The first place was bagged by **Nikhil N Prasad & Suryakanth P**, 4th semester, Department of Computer Science & Engineering.



◆ Workshop

In addition to all the buzz regarding the activities of SAE India KSIT collegiate club, a five day workshop on '**AUTOMOBILE BASICS AND VEHICLE DYNAMICS**' was conducted by the club in association with Elite Techno Groups. The sessions were engaged by **Mr. Kushal Singh Bithu, Formula1 Marshal and Research Associate at Elite Techno groups (ETG) and Mr. Rahul Ranjan, Research Associate, ETG.**



The workshop covered basics of automobile dynamics and detailed design of various critical components such as suspensions, chassis, IC Engines. On 5th day there

was hands-on session where students assembled and disassembled an IC engine and few other parts which helped them to learn through practical approach. Workshop was well received by students of KSIT and other colleges as well. Students of the club are looking forward to conduct such events and activities in more number in the future.

⇒ FACULTIES REGISTERED FOR PhD 2014-15

1. Mr. MURALIDHAR K S, Asst. Prof.
2. Mr. ABHISHEK M R, Asst. Prof.
3. Mr. YOGENDRA P MAHAJAN, Asst. Prof.

⇒ ACHIEVEMENTS

- ◆ **Dr. Suresh P M**, Prof. & Head was invited as a speaker for AICTE sponsored Faculty Development Program on “**Computational Mechanics & Industry applications**” at **Government Engineering College, Ramanagara** on 24.01.2015
- ◆ **Anirudh V** and **Bharatish S** of 4th sem successfully completed fusion 360 software, **Autodesk** also presently working in multiple design solution projects.
- ◆ **Abhijith Magal**, 4th sem became student expert elite, **Autodesk**. Currently representing student experts at national level, Being one among two in Asia
- ◆ **Prajwal Prakash, Palani Pawan, G Nitin Sai and M Mohan Sai**, 4th semester, attended the workshop on **Robotryst** for the year 2015. Prajwal Prakash won 1st place in the competition at zonal level held at KSSEM and represented the college at National level.
- ◆ **Pradyumna S Charya, S Ashok Raj and Karthikesh G L**, from 6th sem, successfully completed their internship training at **Werner Finley** (Process coolers) in the month of January this year.
- ◆ **Apoorva Vij** from 6th sem obtained her internship training at **Aerospace Division of Hindustan Aeronautics Limited** in January, 2015.

⇒ FINAL YEAR PROJECTS

- ◆ **Extraction of 3rd Generation Bio-Fuel from Algae**
 - Shubham Kumar Agrawal, Vasist N Pandit, Kishore Kumar, Shanth Kumar. (Secured 2nd place in Project exhibition)
- ◆ **Wireless Agricultural Multipurpose Device**
 - Rohit S Narayan, Ruthvik, Raghavendra, Srikanth.
- ◆ **Design & Fabrication of Magneto Levitation Locomotive**- Sachin H S, Shashank B A, Ramteja D,

Swaroop S.

- ◆ **Design & Fabrication of Biogas Digester for Anaerobic Fermentation**- Dharmesh Kumar, Manjunatha J M, Althaf Husan, Suraj Aithal.
- ◆ **Shape Memory Alloy Actuator**
 - Harshavardhana M, Jahnavi B M, Manoj Kumar, Sarayu.
- ◆ **Characterization of Anti-Wear Properties of Graphine**
 - N G Mohan Kumar, Abhineeth, Aditya Kachroo, Ramesh G.
- ◆ **Processing & Characterization of Hybrid Composite Using Jute** - Anand, Chetan J U, Arun S, Amitesh Kumar Sinha.
- ◆ **Study on Mechanical Properties of Composite Materials** - Rajashekara K S, Sachin M, Sandeep N, Gokul J M.

⇒ BAJA MILESTONE

It all started with 25 passionate engineers from Department of Mechanical Engineering collaborating to participate in **BAJA SAEINDIA 2015**. SAEINDIA organizes the BAJA event as a **National Level** competition with the aim of Designing-Fabricating-Validating an OFF-ROAD BUGGY by undergraduate Engineering students. It is held in February annually at NATRIP Facility in Pithampur, MP,



India. The team of 25 members from KSIT College named as “**REDLINE RACING**” was formed after a selection process. These students worked their heart out, as a result of

which they built an off-road buggy in just 40 days. They received sponsorship of more than 2 Lakh from companies like **ASH & D K group, O3 Capital**, Mini-max and many other philanthropists. The team's determination and zeal to propel their dream of making an off-road buggy created a milestone in the history of KSIT. It's a privilege to write that **REDLINE RACING was one of the only 4 teams selected from Bangalore, during the Virtual round** for Main Event. The highlight of the team lies in the fact that it was selected in the **first attempt** of participation & it was the only New Team selected from Bangalore this year. The team won the **2nd prize for making a good car in the least possible cost.**

FUNDED PROJECTS

By KSCST

- ◆ **Design & Development of Semi Autonomic Solar Sewage Maintenance System with Pneumatic System**
 - Arjun J, Praful Chandra, Rakesh R, Avinash A K.

ABOUT THE DEPARTMENT

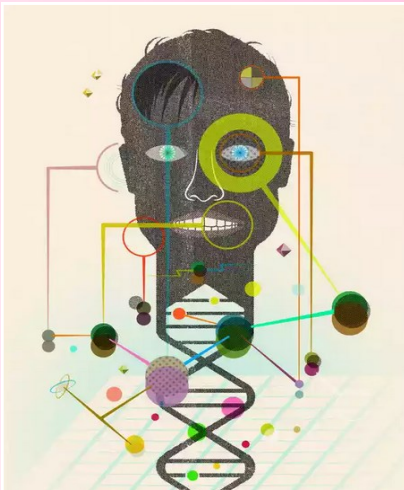
The Research Division of Computer Science and Engineering at KSIT, was founded in the year 2014 under Visvesvaraya Technological University (VTU). The R&D was created to conduct basic and applied research in Computer Science, covering a broad range of research topics that includes Big Data Analytics, Data Mining, Cloud Computing, Wireless Networking, Image Processing and Artificial Intelligence. Big Data has become ubiquitous in modern society. Top companies in the world like Google, EMC, Amazon, Microsoft, Red Hat etc, are mainly focused on the applications of Big Data. To implement this approach, research scholars are encouraged to undertake collaborative projects with industry research groups. Currently 2 research scholars have registered for PhD under VTU and 5 projects are submitted to different funding agencies. Our department is sponsored by Karnataka Fund for Infrastructure Strengthening in Science and Technology (KFIST) under VGST.

⇒ DEPARTMENT WELCOMES

Mr. Krishna Gudi, Asst. Prof. M.Tech (CSE)

⇒ LATEST TECHNOLOGY

This winter, a Biotechnology company began offering a whole new service to police departments. Virginia –



based Parabon NanoLabs Snapshot service allows police to send DNA samples taken from crime scenes. From that DNA, the company reconstructs a guess of what the person's face looks like. Sleuths can determine a suspect's eye and hair colour fairly accurately. It is also

possible, or might soon be, to predict skin colour, freckling, baldness, hair curliness, tooth shape and age. Computers may eventually be able to match faces generated from DNA to those in a database of mug shots. Even if it does not immediately find the culprit ; the genetic witness so to speak can be useful, researchers say. But forensic DNA phenotyping is also raising concerns. Some scientists question the accuracy of the technology, specially its ability to recreate facial images.

DNA phenotyping is different: An attempt to determine physical traits from genetic material left at the scene when no matches found in the conventional way. Though the science is still evolving, small companies have begun offering DNA phenotyping services to law enforcement agencies. Experts are sceptical that faces, which are very complex can be determined from DNA. While inheritance clearly plays a big role- identical twins look alike; and resemble there close relatives- some experts say not enough is known yet about the

relationship between genes & facial features. The

technique is in early development and they have since added many more genetic variants to try to improve be accuracy.

⇒ EVENTS CONDUCTED

- ◆ Seminar on “Career Guidance on the International



Education Scene Advantages of Research” was conducted on of March 3rd 2015 to 6th sem students by **Mr. Sreejit Narayan, B.Tech Chemical Engineering, MBA- IIM Ahmedabad**, who is associated with career launch, Bengaluru.

- ◆ Under the “Google Student Ambassador Program”, AdWords workshop was held to give the participants an



overview of Google AdWords product. The workshop was handled by **Mr. Sujay Vittal** who is a professional. AdWord certified and an Android developer in the Google Community; the session was handled for 6hrs. Participants were from CSE.

- ◆ CSE department organized CSI Student Chapter, inauguration and workshop on **“CLOUD FOUNDATION”** on January 22nd 2015 in association with cloud Enabled under CSI Student Chapter. **Mr. Chander P Mannar, Chairman, CSI**, inaugurated the CSI Student Chapter **Mr. Anil Bidari, Founder and CEO, Cloud Enabled, Bangalore** conducted Cloud Foundation Workshop.
- ◆ A guest lecture on **“Career Opportunities in Animation, Visual Effects and Gaming”** was conducted by **Mr. David**, International Speaker and **Regional Manager for Image group ICAT** for the final year students on February 18th 2015..



- ◆ A guest lecture on **“Web Development”** was conducted on April 24th 2015 for the students of 4th and 6th sem by **Mr. Arun V M, resource person from EDULADDER.**



⇒ EVENTS ATTENDED

- ◆ **Mrs. Rekha B Venkatapura**, Prof & Head, **Mr. Roopesh Kumar B N**, Asst. Professor & **Mr. Chethan M**, Asst. Professor attended FDP on **“Knowledge++”** at **L&T InfoTech, Bengaluru** on February 13th & 14th 2015.



- ◆ **Mrs. C S Nagamanjula Rani**, **Mrs. Vaneetha M**, **Mr. Pradeep K R**, & **Mr. Piyush Pareek**, (Asst. Professors) attended a workshop on **“IT Infrastructure and**

Management Services” organized by **ISE Dept, BNMIT** from 5th to 9th of January 2015.

- ◆ **Mr. Pradeep K R**, **Mr. Piyush Pareek**, **Mr. Aditya Pai H** & **Mrs. Swathi K**, (Asst. Professors) attended a workshop on **“Mobile Application development on Android Platform”** organized by **ISE Dept, Jyothi Institute of Technology Bengaluru** on January 16th & 17th 2015.
- ◆ **Mrs. Deepa S R**, Asst. Professor attended a workshop on **“Isense Wireless Sensor Networks”** at **VIT Chennai** on January 23rd 2015.
- ◆ **Mrs. Rekha B Venkatapura**, Prof & Head attended a workshop on **“Research Trends in Image Processing and Hands on using MAT LAB (RTIP)”** organized by **CSE Dept, DBIT Bengaluru** from March 20th to 24th 2015.
- ◆ **Mrs. Deepa S R**, Asst. Professor & **Ms. Mamtha A**, Asst. Professor attended a workshop on **“Computational Intelligence: Algorithms and applications”** at **Reva Institute of Technology** on January 27th & 28th 2015.
- ◆ **Mr. Aditya Pai H**, Asst. Professor attended FDP on **“Changing Roles and Responsibilities of Engineering College Faculties in 21st Century”** at **Accenture Services Pvt. Ltd** on November 24th 2014.
- ◆ **Mrs. P Priyanga**, **Mrs. Sangeetha V**, **Mrs. Vijayalakshmi Mekali** and **Mrs. Archana Jyotikiran**, (Asst. Professors) attended a workshop on **“Research Methodologies and Latex”** organized by **VTU e-learning centre Mysore** from 18th to 20th of March 2015.

⇒ FACULTIES REGISTERED FOR Phd 2014-15

- ◆ **Mrs. Vaneetha M**, Asst. Prof.
- ◆ **Mr. Pradeep K R**, Asst. Prof.

⇒ ACHIEVEMENTS - Faculty

- ◆ Paper published for **International Journal of Innovative Research in Computer and Communication Engineering (IJIRCC)** titled **“ Study of Standard Techniques for Mitigating the Intrusion Events in Mobile Adhoc Networks”** in volume 3, issue 4, April 2015, ISSN:2320-9801 by **Mrs. Sangeetha V**, Asst. Prof and **Dr.S Swapna Kumar**, Prof & Head ECE department, Vidya Institute Of Technology, Thrissur, Kerala.
- ◆ Paper published for **International Journal of Innovative Science, Engineering and Technology(IJISSET)** titled **“User Identification, Classification and recommendation in Web Usage Mining- An Approach for Personalized Web Mining”** in volume 2, issue 4, April 2015, ISSN:2348-7968 by **Mrs. P Priyanga**, Asst. Prof and **Dr. Naveen N C**, Prof, Department of CSE, KSIT.

- ◆ Paper accepted for **Springer(2015)** titled **“Study on Six Sigma Approach to Improve the Quality of Process Outputs in Business Processes in Small and Medium Level Software Firms”** by **Mr. K Venkata Rao** ,Asst. Prof and **Mr. Krishna Gudi**, Asst. Prof.
- ◆ Paper accepted for **Springer (2015)** titled **“Data Mining for Healthy Tomorrow with the Implementation of Software Project Management Technique”** by **Mr. K Venkata Rao**, Asst.Prof and **Mr. Aditya Pai H**, Asst. Prof.
- ◆ Institute of Engineers India has sponsored a project titled **“Secure and Precise Data in a Cloud for Rural Health Care Monitoring with Mobility”** –**Dr. Naveen N C**, Prof and **Mr.Chethan M**, Asst. Prof.
- ◆ **Mrs. Vaneeta M**, Asst. Prof, **Mrs. Deepa S R**, Asst. Prof, **Mrs. Sangeetha V**, Asst. Prof, **Ms. Mamatha A**, Asst. Prof, presented a paper on **"Hand Sign Communication System for Hearing Impaired"** in 2nd International Conference on Trends In Technology for Convergence **TITCON 2015** at AVS Engineering college, Salem, Tamil Nadu, India.
- ◆ **“Surveillance System to Detect Motion in a Live Video Feed and Activate an Alarm System on Motion Detection.”**- Vijay P Hande, Prajwal H S, S Aravind, Vinay Bhat
- ◆ **“Large Scale Content Based Phase Image Retrieval”**.
- Anagha A Arti, Batul R J, Anusha G Dath, Dilisha M.
- ◆ **“An Access Point Based FEC Mechanism for Video Transmission Over Wireless LANs”**.
-L Nanda Gupta, Sanjana K S, Manas S, Gaurav
- ◆ **“Android Based wireless touchpad”**.
- Pavithra N, Abhishek B M, Abhilasha R, Supritha J
- ◆ **Privacy protection in personalized web Services (PWS)”**.
- Sandesh Karanth, Vinay G R, Sunil Kumar M R
- ◆ **“Wireless intrusion detection and prevention system”**.
- Karthik R, Likith Shetty, Arun V, Abishek
- ◆ **“Achieving private, precise data collections in cloud for Telemedicine”**.
- Hansraj Sagar, Mohit Sharma, Ujjwal Kumar, Naveen Kumar T.

⇒ ACHIEVEMENTS-Students

- ◆ **Nikhil N Prasad & Suryakanth** of 4th sem secured first position in the event **“Enigma”** conducted by **EMANATION** organized by **Department of Mechanical Engineering**, KSIT on March 4th 2015.
- ◆ **Vinayaka K & Vivek B** of 4th sem secured 2nd position in the event **“Enigma”** conducted by **EMANATION** organized by Department of Mechanical Engineering, KSIT on March 4th 2015.
- ◆ A project on **“Building a resource management framework for cloud computing”** is being done by **Manu S K, Naseeruddin V N , Navneet Kumar and Murali Krishna** of 6th sem under the guidance of **Dr. Naveen N C**, Professor.
- ◆ A project on **“Application of Machine Learning Techniques in Medical Diagnostics”** is being done by **Tejaswini Nayak M, Prema T S, Ruhma Hissan, Sreelatha N** under the guidance of **Dr. Naveen N C**, Professor.
- ◆ 12 teams comprising of students from 4th sem and 6th sem are developing various Android apps under the guidance of **GSA Pavan Kumar S Manjalagiri and GSA alumnus Tejas Koundinya**.

⇒ FINAL YEAR PROJECTS

- ◆ **“ATM for Blind using video processing through gestures”** (Secured 1st place in Paper Presentation)
- Shruthi G, Sarayu K P, Sangeetha R
- ◆ **“Location and content aware place suggestion system designed for Android wearable devices”**.
- Tejas Koundinya, Nikitha Twinkle, Soumya R, Shashank (Secured 2nd place in Paper Presentation)

⇒ VARIOUS CLUB DETAILS

- ◆ **Huwaie club – “Neutron”** which was based on quiz and an event called **jai Ho by Huawei Club** was conducted on February 13th 2014
- ◆ A workshop on **“HTML 5 and Web Development”** by **Mr. Anuj Duggal, Organizer, Google Developer Group, Bangalore**. On 24-1-2015 Google Student Ambassador Program, Ad Words 6Hrs. Sessions handled by **Mr. Sujay Vittal Android developer in the Google community**. In collaboration with Google Adwords 4 batches have developed Android based Applications for the contest.

MAGAZINES

Smart Computing premiered in May 1990 under the name of PC Novice. The magazine helps readers buy, use, and troubleshoot a wide range of digital devices and services in the same friendly, plain-English approach found in its very first issue. Because so many users troubleshoot before having their PCs & electronics repaired, Smart Computing provides tech support advice live tech support from Smart Computing’s SmartPeople Computer Support.



Maximum PC is the magazine that every computer geek, PC gamer, or content creator must read every single month. Each and every issue is packed with punishing product reviews, exciting how-to stories, and the illuminating technical stories that geeks crave.



ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was started in the year 1999 with an intake of 60 students and now 120 with additional 10% as a lateral entry in the second year. The faculties are highly accomplished with post graduation and doctoral degrees. All the laboratories are modernized and well equipped. The Electronics and Communication Department has a rich tradition in teaching as well as research. The department is also committed to achieve academic excellence and promote Research and Development activities. The mission of the entire department is to produce engineers with self discipline, high integrity and good personality by providing excellent engineering education and training. Apart from catering to the needs of the students the department also constantly strives to improve the quality of engineering through faculty development programs and technical conferences are regularly organised.

⇒ DEPARTMENT WELCOMES

Mrs. Lakshmi H R, Asst. Prof,
M. Tech (VLSI Design & Embedded systems)

⇒ LATEST TECHNOLOGY

Green Electronics and Communication Technologies
The evolution in technology is important only when it is harmonized with our mother nature. So while developing any technology, environment should be utmost priority. Wireless communication is the most emergent prolific and accepted area of communication field. Most of the recent research efforts have disregarded the implication of wireless networks environmental responsibilities, example energy efficiency and environmental impact. While following the development in new technologies, large number of base stations led to more consumption of energy. The deployment of mobile broadband network such as Long Term Evolution (LTE) is expected to take place on the top existing 2G and 3G networks with increase in approximately 25% the number of base stations. This will lead to more emission of carbon dioxide in the atmosphere. The term Green Wireless Communication can be defined as the technology which uses convergence of energy efficient methodologies at different stages to minimize the adverse effects of technology on environment. Green wireless communication has many facets. It can be classified broadly in terms of greening of telecommunication networks, green telecommunication equipment manufacture, and safe telecommunication waste disposal. Thus the need to develop green wireless communication system turns out to be vital as wireless networks are becoming ubiquitous. It also provides energy efficient communication and results into less radiation from devices as well as more economic solutions for service providers and subscribers. Thus the integration of different energy efficient technologies like Green BTS, Green antennas, Green electronics and smart grid solution will create accord between human and nature.

⇒ EVENTS CONDUCTED

◆ Inauguration of IETE student forum :

The Institute of Electronics and Telecommunication Engineers is a leading professional society devoted to the

development of Science and Technology. The IETE Student Forum (ISF) was jointly inaugurated by Department of ECE and TCE on March 12th 2015. The chief guests were **Dr. M H Kori (TPC Chairman, IETE HQ) and Dr. D C Pande (IETE Chairman, Bangalore)**. The IETE membership cards were issued to all students and keynote address by the guest of honour Dr. M H Kori on wireless communication followed the inauguration function.

- ◆ A guest lecture on “**Data Communication and Innovation**” by **Mr. Akhil Bhardwaj**, Associate Technical Solution Engineer from **Akmai Technologies** was organized for 6th sem ECE students on February 11th 2015

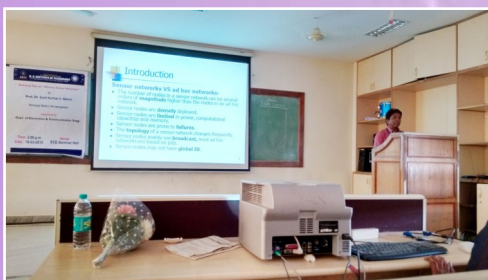


by **Mr. Santhosh Kumar B R**, Asst. Prof. This lecture mainly focussed on web designing which encompasses many different skills and disciplines in the production and maintenance of website. A detailed description about various routers, mappers, clients, servers, IP protocols and structure of URL was given. The highlight of the session was DNS (Domain Name System) which is standard technology for managing



websites and other internet domains. He also stressed the importance of data communication and networking in service and product based IT companies. He also encouraged students to create something better from available. He concluded by defining innovation as it is all about thinking outside the basic box!!'

- ◆ A guest lecture on “**Career Guidance on the International Education Scene and Advantages of Research**” was conducted by **Mr. Sreejit Narayan** and **Ms. Sreelatha** from career launcher for 6th sem students on March 9th 2015. The lecture gave a snapshot of a wide range of career options after engineering. The students are generally in a daunting process of making choices, the idea of this lecture was to guide students and help them shape their bright career. Mr. Sreejit concluded that its not the hard work but the smart work which is the key to success.



- ◆ A guest lecture on “**Trends in mobile communication and networks**” was conducted on 2nd March by **Mr. Prashanth Wali**, research scholar from IITB for 8th sem & M.Tech students . The event was convened by **Mrs. Sahana Salagare**, Asst. Prof. It was an opportunity for students to enrich their knowledge in the field of mobile communication and networks. The participants got an idea about the fundamental basics of communication along with importance of OFDM which is used in LTE.
- ◆ A guest lecture on “**Wireless sensor networks**” was organised on March 10th 2015 for 8th sem students by **Dr. Sunil Kumar S Manvi**, Principal Reva Institute of Technology and Management. The event was convened by **Dr. Surekha B**, Professor. The lecture focussed on how the wireless sensor networks are established, corresponding protocols for communication to take place and how the contents are delivered in the network, applications of sensor networks, design factors along with issues and challenges of sensor networks.
- ◆ A guest lecture on “**Operating System Concepts - a primer**” was organized on April 7th 2015 for 6th sem students . The speaker was **Mrs. Nalini Kannan**, Senior Manager, IBM Software Labs, India. The event was convened by **Mrs. Anitha Senthil Kumar**, Asst. Prof. The lecture opened with an excellent introduction to operating system. She also emphasized on several important concepts of operating system which helped students in understanding the present

trends of operating system. The limpid overview she gave helped students to get updated with latest technologies used.



- ◆ A two day workshop on “**ARM Cortex using PSOC Creator**” in association with Tiny Chips Limited was organized at KSIT on April 10th and 11th 2015. A total of 35 students from 6th and 4th semester along with **Dr. Shanthi Prasad M J** (Professor), **Dr. Surekha B**, **Prof. Mrs. Sahana Salagare** and **Mrs. Jayasudha B S K**, Asst. Prof. attended the workshop. The workshop helped the students to know more about embedded system and its application in the real world by providing hands on experience. The workshop helped the students to conclude hardware approach to design is much effective than software.
- ◆ A two day hands on workshop on “**Optical Fibre**” in association with **TPO Technologies** was organized at KSIT on April 2nd and 3rd 2015 to sixth semester students. A total of 20 students along with **Dr. Shanthi Prasad M J Prof.**, **Mrs. Sahana Salagare** & **Mrs. Lakshmi H R**, Asst. Prof. attended the workshop. The workshop helped the students to know about various optical fibre terminologies, its installation process and the use of various devices like slicer, OTDR, power meter which are popularly used in all the optical fibre industries worldwide

⇒ EVENTS ATTENDED

- ◆ A faculty development Program on “**Cognitive software defined radio and open source software programming**” was attended by **Ms. Nithya Kumari**, **Mrs. Sangeetha V** and **Mrs. Prathima B A**, Asst.Prof. at **Dr. Ambedkar Institute of Technology** in association with **AMITEC Electronics Limited and Silicon Microsystems** on January 7th 2015. The program concentrated on the emerging advancements in wireless communication and signal processing. The highlights of the program were Cognitive Software Defined Radio and its application in various fields like MIMO, base terminal station and many more.
- ◆ A five day faculty development Program on “**Signals and Systems**” was attended by **Mr. Karthik B R** , Asst. Prof. at **BMS Institute of Technology and Management**, Bangalore from 27th to 31st January 2015. The program provided a platform for faculties, researchers and technologists to understand the basics of signals and system using different mathematical approaches and their practical applications.

- ◆ A two day faculty development program on “**VLSI Design and Intellectual Property**” organised by **Jyothi Institute of Technology** on of January 9th & 10th 2015 was attended by **Mr. Praveen A & Mr. Karthik B R**, Asst. Prof. This program provided an opportunity for the faculty members to enrich their teaching skills and research in the field of VLSI design. The program intended to develop the knowledge of participants for simulation with advanced software in the relevant field for inculcating learning values in students, guiding, and monitoring their progress.



- ◆ One week faculty development program on “**Electronics communication and Trends**” at **BNMIT** was attended by **Mrs. Sahana Salagare & Mrs. Lakshmi H R**, Asst. Prof. The workshop gave an overview of advance trends in analog and digital communication along with the use of various tools like **modeltech and simulink**. The participants were enlightened with the most widely used technologies in the recent communication trends.
- ◆ A five day faculty development program on “**Programmable Logic Controller & SCADA Systems**” at **BNMIT** was attended by **Mrs. Vishalini Diwakar**, Asst. Prof. The program trained the faculty members to use Graphical User Interface (GUI) through SCADA system and PLC called stardom which is widely used in many organizations like GAIL. The program helped to improve the professional skills as a whole.
- ◆ A Faculty Development Program on “**Sensor enabled smart computing using Raspberry Pi**” held at **Jyothi Institute of Technology** on January 8th and 9th 2015 was attended by **Mrs. Jayasudha B S K** and **Mrs. Prathima B A**, Asst. Prof. The program gave awareness about RaspberryPi and its applications. The resource person was **Mr. Nayan Mulhadiya** from Synopsys. The



program was very helpful to beginners working on Raspberry Pi.

- ◆ One week workshop on “**Entrepreneurship Development Program**” organised by **BNMIT** in association with Entrepreneurship Development Institute of India was attended by **Mrs. Jayasudha B S K**, Asst. Prof. the workshop provided information concepts of entrepreneur and various competencies required to become a successful entrepreneur.



- ◆ **Mrs. Lakshmi H R**, Asst. Prof. attended one day workshop on “**VLSI Design and verification**” held at **Maven Silicon, Bangalore**.
- ◆ A two week workshop on “**Techno Entrepreneurship Development Program**” organised by Entrepreneurship Cell, **MSRIT** from March 16th to 27th 2015 was attended by **Mrs. Jayasudha B S K**, Asst. Prof. This program helped to gain the insights on techno entrepreneur development skills and training.
- ◆ **Mrs. Supriya V G**, Assoc. Prof. attended work shop on “**Digital Image processing**”, conducted by **Karnataka Science and Technology Academy (KSTA)** in association with the for engineering teaching faculty and research scholars. The purpose of the workshop was to give an overview on the use of Digital Image Processing techniques and its wide range of applications.
- ◆ **Dr. Sudha P N**, Professor & Head and **Mrs. Supriya V G**, Assoc. Prof. attended three day workshop on “**Graphical System Design In Engineering Technology Using NI Lab View**” conducted from 05th to 07th Feb 2015 at **SJB Institute of Technology**.
- ◆ One day workshop on “**Antennas and Propagation**” organised by **IETE** on April 19th 2015 was attended by **Dr. Surekha B**, Professor. The workshop mainly aimed at exploring the fascinating world of antennas starting from physical concepts and prerequisites to its innumerable applications.
- ◆ **Mrs. Jayasudha B S K**, Asst. Prof. participated in the 13th International conference on embedded systems with theme of “**Internet of Things**” on January 9th & 10th 2015 held at **Leela Palace, Bangalore**.
- ◆ **Dr. Sudha P N**, Prof. & Head and **Dr. Shanthi Prasad M J**, Prof., participated in the **IESA Vision Summit 2015** held at **Leela Palace, Bangalore** on 2nd February 2015.

- ◆ **Dr. Shanthi Prasad M J**, Prof. along with students Sudarshan, Sri Lakshmi, Vikas S, Sushma S N, Vadiraj M attended the **IEEE Branch Counsellors Meet** on 5th April 2015 held at **MSRIT**.

⇒ Paper Presented-Faculty

- ◆ **Mrs. Lakshmi H R**, Asst. Prof. has presented a paper titled **“Implementation of Area Efficient Hybrid MBIST for memory Clusters in Asynchronous SOC”** at **NITK Suratkal** on 15th December 2014.
- ◆ **Dr. Surekha B**, Prof. presented a paper titled **“Security Analysis of a novel copyright protection scheme using visual cryptography”** at **IEEE International Conference on computing and communication technologies held at Osmania University, Hyderabad** on December 11th 2015.
- ◆ **Mrs. Jayanthi M**, Asst. Prof. has published a paper titled as **“Extracting Liver and Tumor from Computer Tomography Images Using Hybrid Techniques”** in Volume 4, Issue 3, March 2015 of **International Journal of Innovations and Advancement in Computer Science**.
- ◆ **Mr. Sudarshan B**, Asst. Prof. has published a paper on **“Data Storage and retrieval mechanisms”** in the **International Journal of Engineering Research and Technology (ISERT)**, January 2015.
- ◆ **Mr. Sudarshan B**, Asst. Prof. has published a paper on **“Image storage and retrieval in graded memory”** in the **International journal of Advances in Engineering and Technology (IJAET)**, February 2015.
- ◆ **Mrs. Supriya V G**, Assoc. Prof. presented a paper on **“Chaotic Maps for Biometric Template Protection-A Proposal”**.
- ◆ **Mrs. Supriya V G**, Asst. Prof. presented a paper on **“Chaos based Cancellable Biometric Template Protection Scheme-A Proposal”** in the **International Journal of Engineering Science Invention ISSN**

⇒ Paper Presented-Students

- ◆ Arvind B, Shravani B, Deepthishree and Harini J of eight semesters under the guidance of Dr. Surekha B, Prof., presented a paper titled **“Multifunction Constant Health Monitoring Sweat Band”** in national level symposium organised at Sri Siddhartha Institute of Technology, Tumkur on March 9th and 10th 2015. Anirudha Rajendra, Anurag Dey, Farhat Ali Khan and Gaurav Gupta presented a paper titled **“Vibration Based Detection System To Prevent Illegal Logging and Forest Wildfire”** at K.S. School of Engineering & Management on April 11th 2015.

⇒ ACHIEVEMENTS

- ◆ **Dr. Surekha B** has been awarded with Doctor of Philosophy by Jawaharlal Nehru Technological University, Hyderabad for the thesis entitled **“Image Data Hold-**

ing for Copyright Protection Based on Visual Cryptography Schemes”.

- ◆ **Rakesh S** of 6th semester has undergone internship at **BOSCH**.

- ◆ **Mr. Sangappa S B**, Associate Prof. has been elected as **National Executive Council member of Indian Society for Technical Education, New Delhi** for a term of three years. Prior to this he has served as Hon. Secretary and Treasurer of **ISTE Karnataka state section**



⇒ FUNDED PROJECTS

- ◆ A project titled **“Protection of spoilage of crops and proper usage of rainfall using GSM and moisture sensor”** under the guidance of **Mr. Santhosh Kumar B R**, Asst. Prof. was sponsored by Vision Group on Science and Technology.

⇒ ONGOING FINAL YEAR PROJECTS

- ◆ **GSM Based Smart Godown System**
-Thejaswini P, Ramalingesh G, Nutan A T and Harshitha
- ◆ **Colour Image Steganography**
-Shilpa J, Sharanya R, Sanjay C and Varsha Jairam P
- ◆ **Chaotic Maps For Biometric Template Protection**
-Shruthi H V, Shubha N, Shwetharani and Vasupradha B R
- ◆ **Automation Of Electronic Appliances With The Support Of Android**
-Shreyas S, Rahul V and Shashank S
- ◆ **Design And Implementation Of Low Power Adoptive On FPGA**
-Rukmini, Shironika, Vijay Kumar R and Sindhu E
- ◆ **Multifunctioning Health Monitoring Sweat Band**
-Arvind B Baliga, Deepthishree B S, Shravani B and Harini J
- ◆ **A Wireless Home Safety LPG Leakage Detector And Automatic Alarm System**
-Nishanth Y L, Kupendra S K, Likith K Prasad and Manoj Kumar G S
- ◆ **An Eye Recognition System For Wheel Chair Movement Using Real Time Processing On FPG**
-Deepashree J R, Megha K, Harhitha U and Megha
- ◆ **Outdoor Offline Navigation System For Blind People**
-Manasa M S, Jahnavi M, Rashmi K P and Jyoti Shikha.

MAGAZINES

Hacker 5 Magazine is a IT & computer centric publication. Hacker 5 Magazine covers the latest technological & hardware advancements. Hacker 5 Magazine consists on features, analysis and insights.



ABOUT THE DEPARTMENT

The Department has been a constant motivation to students to present their ideas and new concepts in various events. The Department has also consistently maintained a progressive academic record by producing rank holders from the year 2008. IEEE, ISTE and IETE are the international professional bodies where the staff and students have been active members of it. The students have been taking active participation working on projects and mini projects and presenting papers since the past decade.

The Telecom Department has endeavoured in conducting National Conference (Tantragnana) every academic year focussing on new technologies found in the field. Various workshops are conducted every year and students of all the semester take active participation in them. The Department has given scope for the students to participate in the co-curricular and cultural activities

⇒ LATEST TECHNOLOGY

New 5G technology lets us download over 30 movies in one second; 65,000 times faster than average 4G download speeds. UK researchers have achieved record-breaking speeds of one terabit per second during tests of 5G data connections. Researchers at the University of Surrey's 5G Innovation Centre (5GIC) managed speeds of one terabit per second (Tbps) - thousands of times faster than current data connections. At 1Tbps, it would be theoretically possible to download a file 100 times the size of a feature film in about three seconds. The speed



is more than 65,000 times faster than average 4G download speeds, 'BBC News' reported. Previously, Samsung Electronics has set 5G speed record at 7.5Gbps, which is less than 1% of the Surrey team's speed. "We have developed 10 more breakthrough technologies and one of them means we can exceed 1Tbps wirelessly. This is the same capacity as fibreoptics but we are doing it wirelessly," 5GIC director Professor **Rahim Tafazolli** said "The tests were conducted in lab conditions over a distance of 100m, according to news website V3". It remains to be seen whether it will be possible to replicate the speeds in real-world conditions but Tafazolli hopes to demonstrate the technology to the public in 2018.

⇒ EVENTS CONDUCTED

◆ Talk on Career Guidance

The Career guidance program was organised for 6th sem students under the ISTE student chapter on March 9th by **Mr.Srijith Narayan** & **Mrs.Srilatha** of CAREER LAUNCH. Every student has an aspiring professional fac-

ing various career challenges, be it a higher studies, seeking a new job, changing careers etc. This talk has clarified most such dilemmas housed in the minds of the students. The aspects included information on acceptable academic scores and competitive examination percentiles, projects and internships, top educational organizations (IIM IITetc), betterment of scores in competitive examinations (XAT,CAT,GRE,GMAT).



◆ Trends in Mobile Communication & Networks:

A Technical Talk on "**Trends in Mobile Communication & Networks**" was held on March 2nd 2015 by **Mr. Prashanth Wali**, Research Scholar, IIITB. The talk aims to provide opportunities to students of B.E 8th Sem and M.Tech, students to enrich their knowledge in the field of mobile communication and networks. All the sessions were informative. The discussed areas were of great benefit for the students, as the topics match with their current domain. Students were enlightened with most widely used advanced technologies.

◆ **IETE Student Chapter:** The KSIT has put in undying effort to uplift the scientific exposure given to its students. As a result the Telecommunication students are the proud members of IETE. The inauguration of IETE was held on March 12th 2015 and the event was inaugurated by the head of IETE **Dr. D C Pande** & by **Mr. M H Kori**, TPC chairman IETE HQ. The students became a part of the interactive seminar given by Mr. M H Kori on "**Wireless communication**". The talk focussed on the primitive methods used in wireless communications.

⇒ EVENTS ATTENDED

- ◆ **Mrs. Chanda V Reddy**, Prof. & Head has attended a workshop on “**Introduction to NI USRP (Digital communication system), interfacing with LabVIEW hands on to work with USRP**”. This workshop was exposed to LabVIEW programming which helps for simple analog, digital circuits and complicated lab equipment design of function generators. Training was also given on NI Multisim, NI hardware interface, NI ELVIS, MYRIO, COMPACTRIO, NI USRP.
- ◆ **Ms. Sridhya R**, Asst. Prof. has attended an **International Conference on IEEE ICECCT**, held at **SVS College of Engineering, Coimbatore Tamilnadu, India** during March 5th to 7th 2015. She has presented a paper entitled “**Design of Biometric Authentication Techniques for MANET based Emergency Response System**”. In this paper she has presented a design for such a system which uses both physiological and behavioral biometrics traits of a person for authentication. Here gesture with finger photo biometrics recognition is made.
- ◆ **Mr. Vijay V**, Asst. Prof. has attended two days seminar on “**Advanced Entrepreneurship Development**” held at **Omron Management Pvt. Ltd.** on march 9th and 10th 2015. The major topic discussed were Ways to become entrepreneur, fund raising for organisation and methods to get support from agencies.
- ◆ **Mr. Raghu K**, Asst. Prof. has attended 5 days Faculty Development Programme on Signals & Systems held from January 27th to 31st 2015 organized by the Department of Telecommunication engineering at **BMS Institute of Technology and Management Bangalore**. FDP was focussed on Mathematical foundation to Signals & Systems, Time domain analysis, Frequency domain analysis, signal processing applications on communication systems and image processing applications

⇒ ACHIEVEMENTS

- ◆ **Mr. Vijay V**, Asst. prof. was invited as Jury member for the National Conference on PLC based Applications, held at the Digital Instruments and Control Systems Bangalore.
- ◆ **Sushmitha M, Sindhu B N, Sudhashree Nagadi and Seema K S** from VI semester participated in Texas Instruments Innovation Challenge Design India Contest 2015. It has provided us an opportunity to share our ideas about smart wireless notice board using **Micro-controller**. This project was guided by **Mrs. Bhavya R**, Asst. Prof, TCE.
- ◆ Kshama PM from 6th sem has participated in MEDLEY MANIA as a part of BMS Utsav 2015 and has secured 1st place. Kshama PM from 6th sem has participated in Classical Vocal solo as a part of BMS Utsav 2015 and secured 3rd place.
- ◆ Hemalatha C, Hemavathi S R, Manasa Priya K, Thejasvi

G from 8th sem has presented a paper entitled “Solar Tracking for power conservation in irrigation system with field sensors/data logging system.” in the national conference held at Jyothi Institute of Technology on 20th and 21st February.

⇒ FINAL YEAR PROJECTS

- ◆ **Design and Development of a 4G Based Low Power Digital DropReceiver on FPGA** (Secured 1st place in Paper Presentation)
 - Sowmyashree V, Nischiha A B, Apoorva S Naik, Supriya A S.
- ◆ **Low Power Implementation for Detection of Wild Forest Fire.**
 - Vismitha M Mahesh, Sushma B S, Aparna K, Anushree Padmanabha.
- ◆ **Development of Unique Text to Braille Converter Using ATMEL Controller.**
 - Tunga S N, Kurri Sai Sravanthi, Ashwini S.
- ◆ **Development of Unique Hexapod Structure for Material Movement**
 - Pavan Kashyap, Vikas Nag P, Rakesh S, Sathya Pramod Bhat M N.
- ◆ **Simultaneous Localization and Mapping of Autonomous ROBOT with Solar Sensors**
 - Vyshak S, Praveen Kumar G S, Nishitha A R, Kiran B R.
- ◆ **Wireless Vibration Monitoring System for Industrial Applications**
 - Aashitha V Koushik, Saumya G, Sha Nagma, Manasa V.
- ◆ **Monitoring of School Kids using Android Devices & Near Field Communication.**
 - Pooja R, Zahara Siddiq, Anamika Avinash, Nimisha D B Raju.
- ◆ **High Tech Robot for Pick and Place, Live Video Surveillance along with Bomb Disposal Activity.**
 - Ranjitha R T, Sukruthi R, Divya D, Prinyanka H.
- ◆ **Self Balanced Smart Robot**
 - Pankaj Kumar, Gaurav Kumar, Manjunath R, Jeevan Prasad H N

⇒ FUNDED PROJECTS

- ◆ **Recumbent Smart Wheel Chair for Physically Disabled. This project is funded by KSCST, Benagaluru.**
 - Nisban Parveen, Prajwala K Bharadwaj, Nidhi B S, Eshan M G.

ABOUT THE DEPARTMENT

An engineer in particular, keeps coming back to basic physics and chemistry in his career. Science as a subject in our curriculum stretches from middle school to engineering. The reason for this self-explanatory. Topics such as material science and metallurgy are most vital for a 'tech-e'. Every field of engineering deals with the four fundamental forces, Newtonian laws and other basic concepts. And for mathematics, it is an 'integral' part of the core of techniques. These concepts find their roots in basic science. 'Friction' is required to keep a control on your 'walk' in the engineering NH!. The faculty here are extremely helpful to the students. They are the friend, philosopher and guide to each one of them through the entire B.E journey. Labs and research departments are fully equipped with the necessary requirements to quench the thirst of students who are practical hunters.

⇒ DEPARTMENT WELCOMES

Mr. Chowdappa M R Dept. of Mathematics

⇒ LATEST TECHNOLOGY

The 3D printing technology made its way to the technological world in the year 1986, but not gain importance until 1990. It was not that popular outside the world of engineering, architecture and manufacturing. 3D printing is also known as desktop fabrication, it can form any ma-



terial that can be obtained as a powder. For creating an object you need a digital 3D-model. You can scan a set of 3D images, or draw it using computer-assisted design or CAD software. You can also download them from internet. The digital 3D-model is usually saved in STL format and then sent to the printer. The process of "printing" a three-dimensional object layer-by-layer with equipment, which is quite similar with ink-jet printers. One of the most important applications of 3D printing is in the medical industry. With 3D printing, surgeons can produce mock-ups of parts of their patient's body which needs to be operated upon. 3D printing make it possible to make a part from scratch in just hours. It allows designers and developers to go from flat screen to exact part. Nowadays almost everything from aerospace components to toys are getting built with the help of 3D printers.

3D printing can provide great savings on assembly costs because it can print already assembled products. With 3D printing, companies can now experiment with new ideas and numerous design iterations with no extensive time or tooling expense. They can decide if product con-

cepts are worth to allocate additional resources. 3D printing could even challenge mass production method in the future. 3D printing is going to impact so many industries, such as automotive, medical, business & industrial equipment, education, architecture, and consumer-product industries.

⇒ EVENTS ATTENDED-Faculties

International Conference

- ◆ **Mr. Kiran Kumar S R "Synthesis and characterization of copper oxide nanoparticles: To study voltammetric response of bio molecules and antimicrobial activity"- At India Nano 2014 on December 6th 2014.**
- ◆ **Mr. Kiran Kumar S R "Electrochemical studies at Titanium dioxide nano particles modified Carbon paste electrode: Acyclic voltammetric study" at ICCSE, Bangalore**
- ◆ **Mr. Kiran Kumar S R "Cost effective and shape controlled approach to synthesize hierarchically assembled NiO nanoflakes for the removal of toxic heavy metal ions in aqueous solution"- Accepted by journal of Springer bulletin of material science.**

⇒ ACHIEVEMENTS

Paper presented by faculties

- ◆ **Mr Kiran Kumar S R "Electrochemical Studies of Dopamine using Titanium dioxide Nanoparticle Modified Carbon Paste Electrode"- Accepted by journal of Analytical and Bioanalytical Electrochemistry (2015).**

⇒ FACULTIES REGISTERED FOR PhD 2014-15

- ◆ **Mr. S R Kiran Kumar** Department of Chemistry
- ◆ **Mrs. Jalaja P** Department of Mathematics

Industrial Visit

It was a bright sunny morning on 11th March 2015 when 4 busses from KSIT departed towards the well known **Vishveshwaraya technological Museum** located in the heart of Bangalore. It was a successful visit as all the students were equipped with practical knowledge from the displays presented there! They were eager to visit the museum again and gain more skills!



“Tell me and I forget, teach me and I may remember, involve me and I learn.”

MECHANICAL

There has always been a direct proportionality between improving technology and the technical exhibitions. As a proof to this statement, our Bengaluru recently hosted 'Indian Machinery & Tools Exhibition (IMTEX)' at BIEC. IMTEX presented itself as Bengaluru's biggest technical expo. It is held once in every 2 years and this was the 18th time. **IMTEX** is a flagship event for Indian metal cutting industries. It is south & south-east Asia's apex exhibition showcasing the very latest trends as well as technological refinements from India and other renowned global players like Germany, Spain, Japan, Korea etc. The mega event was a one step forum which gave a wide range of opportunities for various classes of people who are connected with metal cutting, machine tool users, manufacturing experts, technocrats, researchers, policy makers, tech graduates and also the budding engineers. **'MAKE IN INDIA'** was the key attraction this time which exhibited the machineries and tools made in India.



TELECOMMUNICATION

An Industrial visit was organized on 14th February 2015 for 4th semester students to **HAL** (Hindustan aeronautical limited). We were accompanied by two of our faculties professor Raghu k and **professor Supriya**. Hal was huge beautiful and well maintained campus. They have a wide range of collection of India's supreme aircraft models of magnificent HANSA, DEVON, KIRAN etc. There were models of ferocious fighter planes like **JAGUAR** fighter aircraft and **MIG -21M** fighter aircraft etc. There were a few helicopters like advanced light helicopter and the famous CANBERRA. Apart from these models they have a portable domestic biogas with the advancement in science in the field of solar energy for street lights. The HAL museum is very informative and we were shown a video on the history of HAL few of us got an opportunity to experience the flight.



ELECTRONICS & COMMUNICATION

An industrial visit to **Tata Power Solar System Limited**, Bangalore was organized to sixth semester students. A total of 25 students under the guidance of **Mrs. Sahana Salagare**, **Mr. Saleem** and **Mr. Sudarshan B**, Asst.Prof. visited the venue. The visit shed light on some of the key aspects of technological processes in the field of solar power consumption and its application. A seminar was conducted by **Mr. Jagannath**, Supervisor A-Quality who spoke about the principle of working of solar panel and its various applications. Students also visited the manufacturing laboratories and **Mr. Jagannath** explained to them about the techniques used in testing and verification of results. The technical details provided by the company enlightened students on various career opportunities.



Alumni Meet

The first Alumni Meeting was held on 7th December ,2014. The meet started with an invocation song by **Mrs. Vishalini Diwakar and Mrs. Sahana Salagare** of Electronics and communication department at 11.00 AM. The President of the association **Mr. Anilkumar** welcomed the Chief Guest **Mr. S R Naidu, Hon'ble Secretary, Kammavari Sangham** along with Principal, HOD's, Faculty members and Alumni's present in the meet.



After lighting the lamp by the dignitaries **Mr. Santhosh Kumar B R, Alumni Coordinator** introduced the office bearers and executive committee members of the association. **Mr. Akhil, Executive Committee Member** of the Association presented the objectives of Alumni Association and Alumni By laws. The Principal addressed the Alumni's and he briefed about the activities planned through the association. He also requested the Alumni's to give their suggestions for organizing the events like technical talks, workshops, stress management courses for the benefit of the students. **Mr. S R Naidu, Hon'ble Secretary, Kammavari Sangham** launched the Alumni website www.ksitalumni.com.

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Indo- Russian "Technovation" Delegation to Russia

An Indo-Russian Delegation of faculty in engineering colleges, entrepreneurs and researchers led by **Dr. L V Muralikrishna Reddy**, President, IEI visited Russia to network and collaborate with leading Researchers, Academicians, and Innovators of Russian Institutions during February 21th to 28th of 2015. The IEI Delegation in Russia has been successful in promoting bilateral collaboration in Engineering including education and technology development. The team has identified collaboration opportunities in Railways; Aerospace; Food and Agriculture; and Textiles including technologies like solar silicon photovoltaic cells, Lithium-Ion batteries, and others useful to the community.



Rank Holders at the VTU Level



SHASHANK.H.N
5th Rank (ME)
2006-07



VAIBHAV.L.V
6th Rank (ME)
2006-07



D. PAWAN KUMAR
8th Rank (ME)
2007-08



UTTAM CHAND.M
6th Rank (TE)
2008-09



SHRUTHI.S
2nd Rank (TE)
2009-10



PUNEETH.B.M
1st Rank (ME)
2010-11



GREESHMA.S
8th Rank (TE)
2011-12



KARTHIK.N
4th Rank (ME)
2012-13



SAI CHARAN.H.Y
9th Rank (ME)
2013-14



SUSHMA SHADAKSHARY
10th Rank (CS)
2013-14

Training & Placement Cell

MESSAGE BY PLACEMENT CELL

KSIT is on lofty mandate of transforming young engineers into empowered professionals and placement department is playing a vital role for fulfilling this mission.

⇒ ACCOLADE

- ◆ More than 100 pool Campus Drives are organised at KSIT.
- ◆ More than 10000 plus offer letters to students of various parts of India.
- ◆ More than 500 college students participated for same from all over India.
- ◆ More than 50000 students visited college for pool campus drives.

⇒ Conferences / FDP/Placement Officers Meet

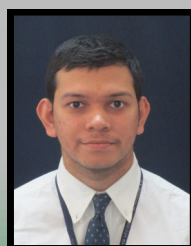
- ◆ Attended ISTD Regional Conference on “Skill Development for Make In India” organized by ISTD Southern Region and VTU Belgaum on Jan 28th & 29th 2015 at VTU Regional Office Bangalore.
- ◆ Attended Faculty Development Program on Knowledge ++ workshop on February 13th & 14th 2015 organized by L&T Infotech at L&T Infotech Campus, Bangalore.
- ◆ Attended conference organized by ISQT EduWorld-EduQuest on “Improving Your Campus Recruitment – Understanding Industry's Agenda for Campus Recruitment” on February 18th 2015 at The Chancery Pavilion, Residency Road, Bangalore.
- ◆ Attended “Experience HP Day” an event organized by HP India on March 3rd 2015 at The Ritz Carlton, Residency Road, Bangalore. HP Day is one of the most acclaimed events of the year for our 2015 graduates. The event will give the incoming graduate hires valuable insights into HP's business and corporate life.
- ◆ Attended VTU Placement Officer's Meet organized by VTU Belgaum for all affiliated colleges of VTU for an “Interaction Session with Honourable Vice Chancellor at the senate hall of VTU, Belgaum on 31st March 2015.

SL NO	NAME OF THE COMPANY	NO. OF STUDENTS PLACED
1	INFOSYS	62
2	NTTDATA	25
3	MPHASIS	6
4	TECH MAHINDRA	25
5	L & T INFOTECH	27
6	IBM	7
7	HP	11
8	MINDTREE	1
9	CAPGEMINI	5
10	WEST LINE SHIPPING PVT LTD	57
11	ARICENT	7
12	SONATA SOFTWARE	4
13	TOYOTA KIRLOSKAR TEXTILES PVT LTD	18(S)
14	MERCEDES BENZ	1(S)
15	TRIVENI TURBINES	1(S)
16	EQUIFAX	3
17	NOKIA	1
18	BREAKS INDIA	1
19	MICROLAND	4
20	HEALTH ASYST	1
21	CMC TATA	17
22	SANDVIK	1
23	METRIC STREAM	1
24	ZOVI	1
	TOTAL	267

⇒ ACHEIVERS



JAHNAVI.B.M
Mechanical
Sandvik Asia Pvt. Ltd.
5.5 LPA.



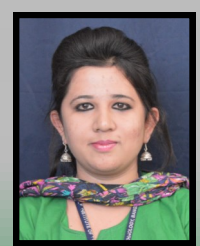
ARVIND B BAIGGA
Electronics & Communication
Nokia Solutions and
Network India Pvt. Ltd
5.85 LPA.



ASHWINI M
Computer Science
Metric Stream
5.5 LPA



NAVEEN
Computer Science
Mercedes Benz
4.0 LPA



POOJA R
Telecommunication
ZOVI
4.5 LPA.

Prominent Drives @ KSIT



CAPGEMINI POOL CAMPUS DRIVE FOR 2015 BATCH ON NOVEMBER 15TH & 16TH 2014



EQUIFAX CAMPUS DRIVE 2015



PRATIAN TECHNOLOGIES CAMPUS DRIVE MARCH 2015



INFOSYS POOL CAMPUS RECRUITMENT DRIVE ON MARCH 27TH 2015



TOYOTA KIRLOS KAR TXTILE PVT LTD CAMPUS DRIVE ON FEBRUARY 24TH 2015



VTIGER POOL CAMPUS RECRUITMENT DRIVE ON JANUARY 22ND 2015



PLACED STUDENTS



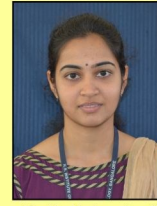
Amulya A-CS



Anusha K.A-CS



Likhith S Shetty-CS



Namitha Madhusudhan-CS



G Sravani-EC



Nutan-EC



Vinay A-CS



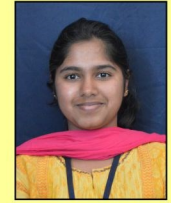
Vijay P Hande-CS



Anushree-TCE



Rakesh-TCE



Vishmitha-TCE



Anup Kumar-EC



Pankaj-EC



Sharanya-EC



Shironika-EC



Vijay-EC



Aparna K-TCE



K S Sravanthi-TCE



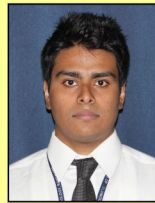
Nanda Gupta-CS



Rachana K N-CS



Akash Dhanpal-EC



Souham Dutta-ME



Nischitha-TCE



Indumathi-CS



Pavan S-CS



Pavan-CS



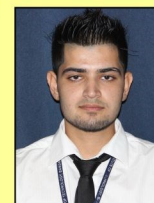
Pavithra N-CS



Soumya R-CS



Sravani EC



Aditya Kachoor- ME



Karthik-ME



PLACED STUDENTS



Amitesh Kumar-ME



Sandeep Kumar-ME



Arun C-ME



Bharath-ME



Chethan Gowda-ME



K Prashanth-ME



Karan K P-ME



Vijay Kumar-EC



Kiran D N-ME



Kundan Pathak-ME



Mahesh Kumar-ME



Manjunath B-ME



Manoj Kumar R-ME



Rahamathulla-ME



Naveen Kumar-ME



Prajwal CN-ME



Rahul Kumar-ME



Syed Shafi-ME



Sunil V S-ME



Vamshi Y-ME



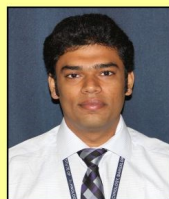
Sujith M S-ME



Dhanraju K R-ME



Sachin M-ME



Vasisth Pandit-ME



Rajath T K-ME



Shashank B A-ME



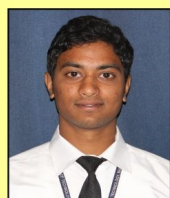
Sourabh V Shetty-ME



Srivatsa R-ME



Vikas S G-ME



N Kiran-ME



Chaithanya R-ME



Althafhusen-ME



Abhishek-CS



Karthik-CS



Nagaraj-EC



Aman Jha-EC



Avinash Rao-EC



Gaurav Gupta-EC



GAUTAM -EC



Gopi-EC



Hemanth-EC



Nishanth-EC



Vikram-EC



Prabhath-EC



Reddy Babu-EC



Rickin-EC



Sunil-EC



Sudershan-EC



Sunil Kumar-EC



CMC Limited
Your IT Partner



Ganesh -TCE



Nimisha DB-TCE



Nishitha AR-TCE



Supriya AS-TCE



Vyshak S-TCE



Arun-CS



Parveen-CS



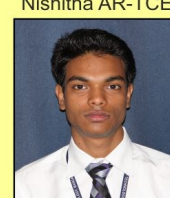
Pavitra-CS



Chandra Girish-EC



Ramya M-EC



Ayub Alam-ME



Manjunath-ME



Anil Kumar-TCE



SPORTS



SPORTS DAY

It was an exciting time for students of KSIT and KSSEM who were for once away from their college compounds. The sun shined brightly exposing the young enthusiastic faces of the students which are usually covered by books. The cool breeze lifted up their sagging shoulders. Yes, it was the time for the KSGI Annual Sports meet.

The Sports day was held on 21st of February, the 52nd day of the year in the Gregorian Calendar at the indomitable grounds of Bangalore University.

The Bangalore University ground was filled with an ocean of student clad in blue and green jerseys representing the vast, calm and dominant sky and the colorful, exuberant earth filled with life.

The Sports day kick started with a mellifluous prayer invoking the blessings of the Lord almighty. Our benevolent and dynamic president **Mr. Subramanya** Naidu and the ever smiling and encouraging treasurer Mr. Srinivas Murthy and other eminent members of the committee presided over the function.

Our college played host to some eminent personalities from the field of sports. **Mr. Naveen Shetty** who was a National level volleyball player was the chief guest. The bright, diligent **Mr. Ashok**, the deputy director of Sports and Culture of VTU was the Guest of Honour. These dignitaries took the salute from our energetic and beaming

young Engineering students who gracefully marched in front of them.

To enliven the sports event, the noteworthy sports persons of the college carried the Olympic torch symbolising the start of the event.

Later throughout the day, one could see the adrenaline rush of the youth productively being channelled in all the events like short put, long jump, discus throw and athletics. One by one these events took place in a very well disciplined manner and the winners were made to stand on the Victory podium and were cheered thunderously by one and all for their flaming spirit.

The fun started when the faculty of KSIT and KSSEM stepped into the field to compete in the events. Lecturers forgot all about their age and blissfully enjoyed competing with their fellow colleagues amidst the roaring cheers and applause from the students.

The day had come to an end, everyone was tired and exhausted beyond their limits though their minds were still fresh with the wondrous and delightful memories of the Sports day. The only thought in everyone's mind was when will the next sports day be!

CONGRATULATIONS



Our College girls team secured **2nd place** in the VTU Single Zone Kabaddi Tournament 2015 held between 27th to 29th April 2015 at APSCE Bangalore.



In the VTU Bengaluru South Zone Kabaddi Tournament 2014 held between 8th to 9th April 2014 our College boys team secured **Runners Up** position.



SPORTS



SPORTS DAY 2K15



Culturals

Ananya cultural fest 2015 was organized by the Kammavari Sangham Institute of Technology on 28th March 2015 in the college premises!

The name Ananya means different which is a synonym to different spheres of life like music, sculpture, dance, paintings, and other art forms. The inaugural function commenced with a cultural parade of varied art forms and the most important message of "Save Water".

The programs was inaugurated by eminent personalities from the field of theatre and film industry Mr. Ravikiran and Mr. Akul Balaji. The other dignitaries who presided over the inaugural function were the management of Kammavari Sangham presided by the President Sri Y Ramachandra Naidu, the Honorary secretary Sri K

Venkatesh Naidu, Treasurer Sri Rukmangadha Naidu and other directors and our Principal Dr. T. V. Govindaraju, Dr. S. N. Sridhar.

Various cultural competitions such as nail art, pencil sketching, hair styling, mehendi, photography, rangoli were conducted to exhibit the creativity of the students. Communication skills were at its best when it was depicted in the extempore debate competition- London Parliament. The next of the cultural events comprised of theatrical such as mad ads, dance forms and singing and the beauty and the aptitude of the students were exhibited in the culminating fashion show.

Ananya provided an opportunity to bring out talents and also in developing the personality of the students.



2K15



ANANYA
2K15







Congratulations to Toppers

MECHANICAL

COMPUTER SCIENCE

ELECTRONICS & COMMUNICATION

TELECOMMUNICATION



ANKUSH ATEKAR
1KS14ME013
82.45%



MAANASA
1KS14CS051
86.83%



AISHWARYA V H
1KS14EC009
86.58%



NAGARAJ S
1KS14TE028
87.35%



SHIVARAJ K C
1KS14ME085
79.09%



SRILAKSHMI
1KS14CS104
82.19%



SOWMYA BK
1KS14EC102
85.16%



RANJITHA H N
1KS14TE040
81.41%



KOUSHIK K
1KS13ME47
78.89%



SHASHWATHI
N BHAT
1KS13CS100
80.22%



PRADITHA S
1KS13EC058
83.33%



KRUPANAND
1KS13TE020
77.56%



NIKHIL N
1KS13ME069
77.78%



DIKSHA
1KS13CS030
80%



PALARLAPALLI
1KS13EC055
81.56%



KEERTHANA
1KS13TE021
77.67%



HITESH KUMAR C
1KS12ME043
86.78%



TEJASWINI
NAYAK M
1KS12CS109
74.44%



NAVYA SRI
1KS12EC072
84.11%



RASHMITHA P
1KS12TE033
79%



MAYEEN
1KS12ME063
82.33%



SPOORTHI M
1KS12CS099
73.22%



SUMITHRA B
1KS12EC087
84.11%



SAHANA H B
1KS12TE38
77.55%



AJAYA
1KS11ME006
83.78%



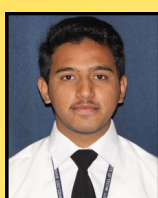
ANUSHA K A
1KS11CS010
80%



MANASA M S
1KS11EC046
81%



APOORVA S N
1KS11TE007
71.2%



SAJJAD PASHA
1KS11ME093
83.56%



SHRUTHI G
1KS11CS083
77.11%



RAMYA SHEKAR
1KS11EC076
78.67%



PRAJWALA K B
1KS11TE029
69.3%

PEOPLE ARE OFTEN UNREASONABLE, IRRATIONAL, AND SELF-CENTRED

FORGIVE THEM ANYWAY

IF YOU ARE KIND, PEOPLE MAY ACCUSE YOU OF SELFISH, ULTERIOR MOTIVES.

BE KIND ANYWAY.

IF YOU ARE SUCCESSFUL, YOU WILL WIN SOME UNFAITHFUL FRIENDS AND SOME GENIUS ENEMIES.

SUCCEED ANYWAY.

IF YOU ARE HONEST AND SINCERE PEOPLE MAY DECEIVE YOU.

BE HONEST AND SINCERE ANYWAY.

WHAT YOU SPEND YEARS CREATING, OTHERS COULD DESTROY OVERNIGHT

CREATE ANYWAY.

IF YOU FIND SERENITY AND HAPPINESS, SOME MAY BE JEALOUS.

BE HAPPY ANYWAY.

THE GOOD YOU DO TODAY, WILL OFTEN BE FORGOTTEN

GIVE YOUR BEST ANYWAY.

IN THE FINAL ANALYSIS, IT IS BETWEEN YOU AND GOD.

IT WAS NEVER BETWEEN

YOU AND THEM ANYWAY

-MOTHER TERESA



For more information refer to college website



K.S.INSTITUTE OF TECHNOLOGY

#14,Raghuvanahalli Kanakapura Main Road, Bangalore-560062

Tel: 080-28435722/24, Fax: 080-28435723