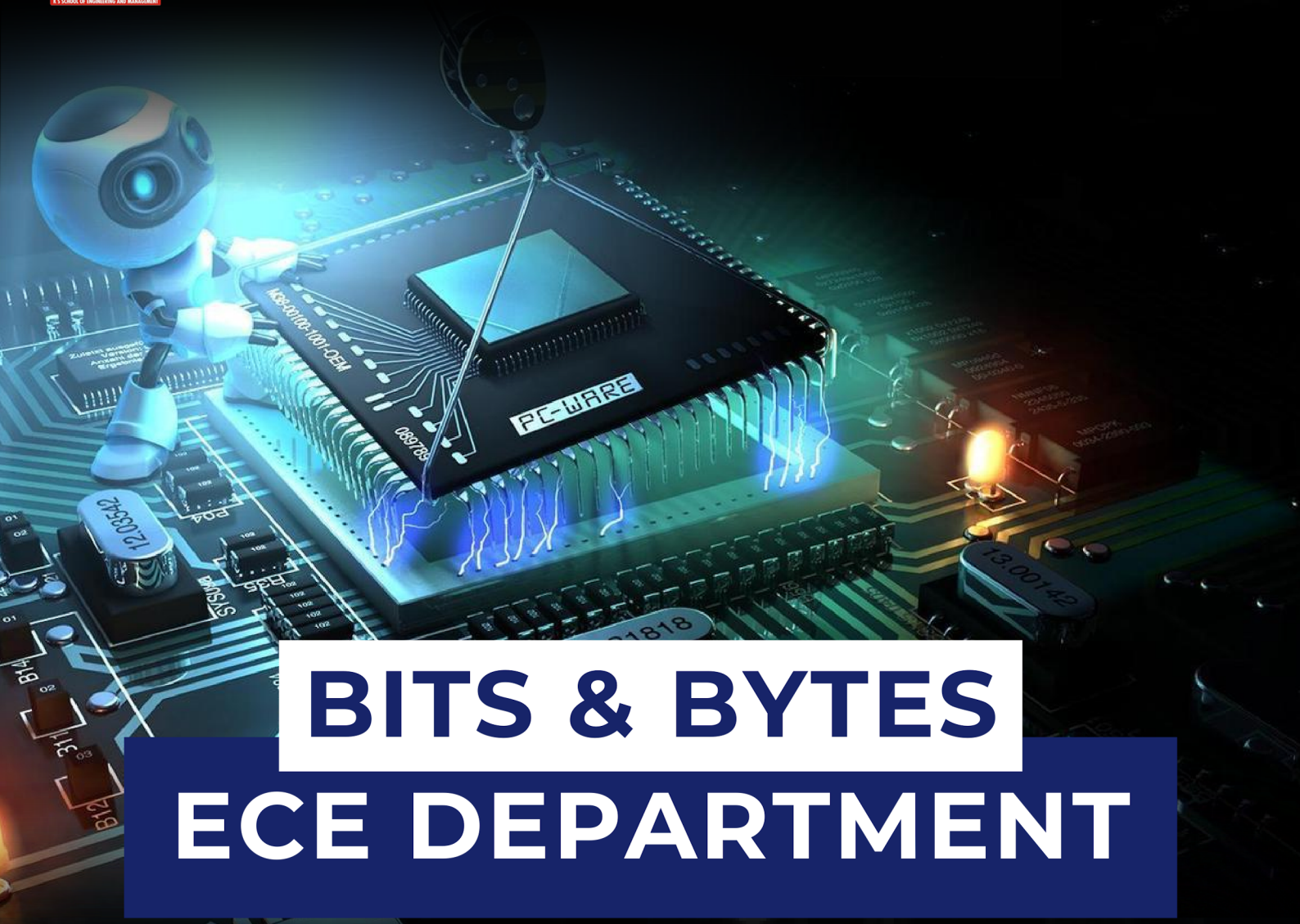
Kammavari Sangham (R) 1952 K.S Group of Institutions

K.S SCHOOL OF ENGINEERING & MANAGEMENT



BITS & BYTES

ECE DEPARTMENT

VOLUME-2

JULY – DECEMBER 2023

VISION

To emerge as a pioneer in the field of Electronics and Communication Engineering, through excellence in technical education and research.

MISSION

The Department of Electronics and Communication Engineering shall

- Provide a transformative educational experience focusing on disciplinary knowledge, problem solving techniques and innovative projects.
- Excel in research and promote Industry-Academia interaction.
- Inculcate entrepreneurial traits in the student community, by fostering managerial and leadership qualities.

Whats inside...

MESSAGE FROM MANAGEMENT

Sri. R. Rajagopal Naidu
Hon. President

I am extremely happy to take note of the efforts put by the editorial team of this news letter which has brought out all the co-curricular activities of the Department of Electronics and Communication at KSSEM. The sincere efforts put forth by the staff of the department in organizing these activities is highly commendable and I am sure that all the students who have actively involved in these activities are truly benefited.

I sincerely appreciate the efforts put by the staff of the department to create opportunities for giving more value to our students and wish them the very best for all their good work.

I am extremely happy to take note of the Co-curricular and other activities organized by the Department of Electronics and Communication at KSSEM. I appreciate the commitment and dedication of all the faculty for arranging these learning opportunities to kindle the interest among students and motivate them to do better in their studies. The Management is also committed to support these learning opportunities and helping our students to become better professionals.

I congratulate all the staff and students for bring out this News Letter and portraying their department so well. I wish them all the best for all their future academic endeavors.

Sri. R. Leela Shankar Rao
Hon. Secretary

Sri. T. Neerajakshulu
Hon. Treasurer

It gives me immense pleasure to take note of the News Letter brought out by the Department of Electronics and Communication at KSSEM. This news letter brings out the activities carried out in the department during the previous academic term and gives us an idea about the value addition made to our students. We at KSGI are dedicated to create a lot of learning opportunities to add better value to our students.

I heartily congratulate the staff and students for their good efforts to showcase these activities so well. I wish the staff and students the very best in all their academic endeavors.

I am very glad that the Department of Electronics and Communication at KSSEM is bringing out the Second Volume of its NEWS LETTER and the Editorial Team has exhibited its talents in portraying all the activities held during the previous academic term. The department's interest and engagement in creating a host of other learning opportunities is very commendable. This will expose our students to the frontiers in this domain and encourages the students hone up their skill sets.

I congratulate the staff and students for all their efforts in keeping the flag of KSSEM high and wish them the very best in all their academic endeavors.

Dr.K V A Balaji
CEO,KSGI

DR. K. Rama Narasimha
Principal / Director

I am happy to mention that the Volume I of the newsletter BITS & BYTES brought out by the Department of Electronics & Communication Engineering, KSSEM has come out nicely. Now, the Department is ready to launch the second volume. The second volume is also focused on covering the achievements and activities of the Department. The coverage in Volume 1 was nice and attractive. I hope that the contents of the second volume are also more useful. I suggest to the editorial team to include one technical article from a student or a faculty from the next volume. My hearty congratulations to the editorial team and to the Department for these wonderful efforts.

It is with great pleasure and enthusiasm that I welcome you to the latest edition of our ECE newsletter "Bits & Bytes". This newsletter serves as a testament to the hard work, commitment and innovation that the faculty and students contribute, towards the success and growth of our department. Let us continue to build on this foundation of excellence, supporting each other in our professional and personal journeys. I offer my congratulations to the Newsletter Editorial committee for their success in bringing out this volume of the newsletter. Here's to a future filled with continued success and collaboration

Dr. K Senthil Babu
Professor & Head

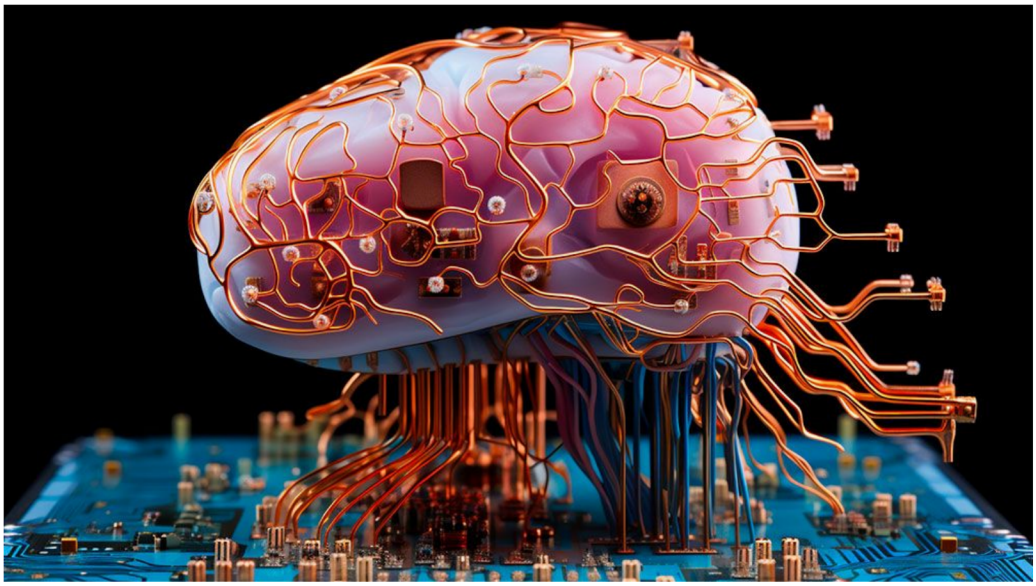
HOT TOPIC!

BRAIN-COMPUTER INTERFACES

Brain-computer interfaces (BCIs) are innovative technologies that establish a direct communication link between the human brain and external devices or computers. These interfaces can record, interpret, and translate neural activity into actionable commands, facilitating interaction with computers or controlling external devices through mere thoughts.

Electroencephalography (EEG), invasive neural implants, and functional magnetic resonance imaging (fMRI) are among the various methods employed to capture brain signals for BCI systems. BCIs have promising applications in fields like assistive technology, allowing individuals with paralysis or motor impairments to regain control over their environment.

Additionally, researchers are exploring BCIs for cognitive enhancement, gaming, and even artistic expression. Although challenges like signal accuracy, implant safety, and ethical considerations remain, the continuous advancements in neurotechnology hold the potential to revolutionize human-machine interactions and empower individuals with new capabilities.



ALUMNI CORNER

MR. SANDEEP VIDYASHANKAR (GRADUATING CLASS OF 2014)

Senior Hardware Engineer at Qualcomm
MS in Digital Signal Processing
(San Diego State University)

What made you choose E&C, during CET?

I have always had an inclination and interest towards any hardware, gadgets or devices. I was keen to open up any broken devices to see what's inside. On a lighter note, there is no fear of having an electric shock with electronic gadgets. Naturally ECE was the way to go.

In 2010, I joined engineering, the smartphone industry had just taken off. Needless to say, we humans are ever so dependent on them today day in and day out. Electronic devices in general are going to make significant positive impact to human lives in the foreseeable future as well. Why wouldn't we as E&C engineers be part of this incredible journey and contribute to a better world?

What influence do you feel your time as a student in KSSEM, had on your life?

Being part of the first batch of KSSEM, we had the best opportunity to express ourselves as individuals, which immensely helped shape me towards what I am today.

From being stage frightened in 2010 to giving lectures and technical talks in 2024, KSSEM gave me the much-needed confidence and the platform to overcome my fears and unleash my true potential at a very crucial juncture of my career. That confidence has helped me leaps and bounds in what I am today.

What about extra-curricular activities?

Personally, I feel I spent more time in extracurricular activities than in classrooms. Jokes apart, I would like to believe that I played an important role in having the ECE student forum inaugurated along with the IEEE chapter during 2011-2012.

We brought in industry experts and reputed professors from other colleges and organized many technical talks as part of the student forum, to give students insights on what to expect in the industry when stepping out of college.

Apart from the technical stuff, I was also part of the college football team for 3 years and represented KSSEM in VTU tournaments. I have participated in athletic events and played for ECE relay team and won for 2 straight years. I was also actively involved in organizing the college fest, Aarohana.

Regarding careers and placements, what, in your experience, are fundamental skills that are crucial for any E&C Engineer?

Problem-solving and Analytical skills are what any potential employer would look at. In my domain, as an ECE engineer, one must be very confident in basic electronics

and basics of wireless communication for ex: Different communication standards, 1G, 2G,3G etc..., how a cell phone works, Analog and Digital communications (Different types of receivers etc...). Knowledge of fundamentals of programming and familiarity in C/C++ and other programming languages makes a huge difference too.

For those students who want to pursue a career in core E&C domains, what are the prime areas and opportunities?

Based on my professional experience, I feel each subject under ECE in itself is a job-fetching domain. It totally depends on student's interest to pick and choose their domain. There is need for engineers in every domain. Onus is on the student to be an expert in the chosen field. The subjects offered under VTU are carefully designed to help the students in finding jobs in their field. Unfortunately, due to time restrictions and many other factors, we study them merely to pass and move onto the next semester. Regardless, to name a few core jobs:
Analog Electronics and Analog communication and Signals and Systems - Analog Design Engineer
Digital Electronics and Digital Communication and DSP - Modem Design Engineer
Field theory - Signal and Power Integrity Engineer
Power Electronics and PA's, Receiver Chain, Analog/Digital Communication - RF Design Engineer
CMOS and VLSI - Layout Engineer
Antenna Design - Antenna Design Engineer

Automotive is another booming industry currently. It is going through significant changes and is becoming more and more technology driven. Auto manufacturers are focusing more on incorporating electronics and intelligent systems to their cars to make it safer and entertaining to the user. Today, companies are competing based on car's technological features more than the legacy mechanical auto parameters. Only ECE engineers can make this happen. Cars are today loosely termed as technology on wheels. Connected cars are the future. Bangalore especially has a lot of companies that are working on automotive technology

What advice would you give to fresh graduates for their interviews?

There are thousands of engineers passing out each year. Try to set yourself apart from them. Think about why the interviewer should choose you over the candidate sitting next to you. You must have something different and extra to offer than that the other guy can offer.

Following are few things that comes to my mind right now:

- Try to gain additional skills like software coding (python/Matlab)
- Do a certification course in AI and ML. There are many that are free online.
- Be on top of current technologies and try to know what are the upcoming technological advancements
- Try to know the practical applications of all the theoretical knowledge you learn. There are many Youtube educational videos that can help you with this.

Any words of wisdom for your juniors?

Be strong with the basics and always be keen to learning new things. Never lose the joy of learning and experimentation!
Always share your learnings and experience with the new folks passing out after you. Every experience is different. Every path is different. The least one can do is to share it with others.
Be humble and no matter what your achievements are and always respect your parents. And finally, keep in touch with your lecturers. Cheers :)

DEPARTMENT EVENTS

LECTURE ON "NEED OF IPR LITERACY FOR ACADEMIA AND RESEARCH"

The Department of Electronics and Communication Engineering, Bengaluru in association with CSIR - NAL organized an "Lecture on Need of IPR literacy for Academia and Research" to the faculties of all departments & Students on 27th July 2023. The Speaker was Mr. Vasant R Pilare, IPR Head, CSIR-NAL.

TECHNICAL TALK ON "AI BASED CONDITION MONITORING"

A technical talk on The Department of Electronics and Communication Engineering, Bengaluru in association with CSIR - NAL organized a technical talk on "AI Based Condition Monitoring" to the faculties and students on 27th July 2023. The talk was delivered by Dr. Vadlamudi Parthasarathi Naidu, Scientist, NAL.

SEMINAR ON "TOP 3 CAREERS TO PURSUE AFTER ENGINEERING"

A Seminar on "Top 3 Careers to Pursue after Engineering" was conducted by MR. Vipin Kumar Mishra from IMS GATE Academy, for students of 4th Semester ECE on 3rd August 2023.

NSS PROGRAM FOR ECE STUDENTS AT ART OF LIVING INTERNATIONAL CENTER

The NSS Cell of KSSEM Conducted an activity titled "Organic Farming, Indian Agriculture (Past, Present & Future) Connectivity for Marketing" on 5th August 2023 at Art of Living, Bengaluru.

TECHNICAL TALK ON "MODULATION SYSTEMS IN MOBILE COMMUNICATION -1G TO 5G"

The Department of Electronics and Communication Engineering, KSSEM, had organized a Technical Talk on, "Modulation Systems in Mobile Communication: 1G to 5G" on 30th August, 2023. The Technical Seminar was delivered by Mr. Sasindran M Prabhu.

TECHNICAL TALK ON "COMPUTATIONAL & SMART ECG SENSING CUM ANALYSIS"

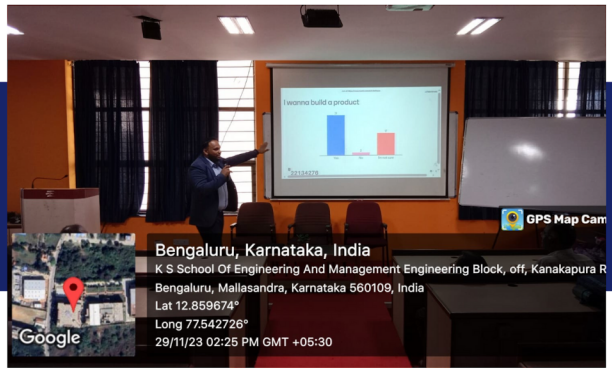
The IEEE KSSEM Student branch, in association with the ECE department organized a technical talk on, "On Computational & Smart ECG Sensing cum Analysis" on 3rd October 2023. The talk was delivered by Dr Mahabaleswar R Bhatt, Associate Director, KSRIF.

TECHNICAL TALK ON "SMALL SCALE GAS SENSORS"

Department of ECE conducted a technical talk on "Small Scale Gas Sensors" on 3rd of November 2023. The resource person who delivered the talk was Dr. Abha Misra, Department of Instrumentation and Applied Physics, IISc, Bengaluru.

TECHNICAL TALK ON "STUDENT IDEAS TO PRODUCT"

Department of ECE conducted a technical talk on "Student Ideas to Product" on 29th November 2023. The resource Person, Mr. Glenson Toney, Incubation Manager and Placement officer from SJCE, Mangalore delivered a talk on how to develop idea to product to ECE students.



DID YOU KNOW

Transparent Smartphones

Inventors, Jung Won Seo, Jae-Woo Park, Keong Su Lim, Ji-Hwan Yang and Sang Jung Kang, who are scientists at the Korean Advanced Institute of Science and Technology, have created the world's first transparent computer chip.
The chip, known as (TRRAM) or transparent resistive random access memory, is similar to existing chips known as (CMOS) or metal-oxide semiconductor memory, which we use in new electronics.

The difference is that TRRAM is completely clear and transparent. What is the benefit of having transparency?
"It is a new milestone of transparent electronic systems," says Jung Won Seo. "By integrating TRRAM with other transparent electronic components, we can create a total see-through embedded electronic systems."

The technology could enable the windows or mirrors in your home to be used as computer monitors and television screens.

MOUs SIGNED

- A MOU was signed between the ECE Deparment of KSSEM and **Inversa Technosoft Pvt. Ltd**, Bengaluru, on 3rd July 2023. This MOU facilitates the conduction of Workshops and Technical Talks, providing Internship Opportunities to Students, and also Industry Connects and Industrial Visits.
- A MOU was signed between the ECE Department of KSSEM and **Maven Silicon Softech Private Limited**, Bengaluru on 7th August 2023. With this MOU, agreements were made to provide internship training, webinars and workshops, Lab Facilities, FDPs and VLSI Training Programs to the students and faculty of KSSEM.
- A MOU was signed between KSGI and **CSIR-NAL**, Bengaluru on 21st September 2023. This MOU facilitates cooperative opportunities in research training, laboratory visits, guest lectures and internships.

- A MOU was signed between the ECE Department of KSSEM and **PYGENICARC**, Bengaluru, on 16th October, 2023. The MOU facilitates delivery of practical internship training, workshops and FDPs and technical training programs for students and staff of KSSEM.

FACULTY ACTIVITIES AND ACHIEVEMENTS

PUBLICATIONS

- **Senthil Babu, M. Kishore, J. Dileep, "Design and Implementation of Protective Headgear to Reduce Human Casualties",** International Journal of Advances in Engineering Architecture Science and Technology, September 2023, Volume-1, Issue-6, pp.1-11
- **Renuka V Tali**, Surekha Borra, Vijay Bhaskar Reddy Dinnepu. "**CLAHE Enhanced Hybrid Feature Descriptors for Classification of Acute Lymphoblastic Leukaemia in Blood Smear Images".** International Journal of Biomedical Engineering and Technology 43.4 (2023): 309-328.
- **Mr. Dileep J** presented a paper titled **"Detection and Tracking of Multiple Faces in Video using Modified KLT Algorithm"** at the IEEE International Conference on the Confluence of Advancements in Robotics, Vision and Interdisciplinary Technology Management at RVITM, Bangalore on 28th and 29th November 2023.

PROMINENT EVENTS ATTENDED BY FACULTY

- **Mrs. Jayashree G R** attended a One-week International FDP on **"Applicability of Mathematical Sciences in Emerging World"** organized by Satyabhama Institute of Science and Technology from 7th to 12th August 2023.
- **Mrs. Renuka V Tali** attended a FDP on **"Research Applications in Artificial Intelligence and Machine Learning"** at JSSATE, Bangalore from 11th to 15th September 2023.
- **Mrs. Hemapriya M, Mrs. Tejaswini G V, Mrs. Manjula B G** attended a Two-Day National Seminar on **"Applications of Augmented Reality and Virtual Reality in Engineering"** on 14th and 15th September 2023.
- **Mrs. Jayashree G R** and **Mrs. Bhargavi V S** attended a One-week International Virtual FDP on **"The Power of Positivity Approach in Teaching & Learning system of Cultural Transformation"** organized by the Hindustan College of Engineering, from 19th to 26th September 2023.
- **Mr. Ravikiran B. A.** and **Mr. Syed Waseem Tabraiz** attended a Two-Day Workshop on Testing of **"Analog & Digital Circuits using Moku: Go – A Software Defined Multi – Instruments"** at RNSIT, Bangalore on 19th and 20th October 2023.
- **Mrs. Jayashree G R** attended a 5 Days Virtual FDP on **"Artificial Intelligence and it's applications in communication, Signal Processing, Image Processing and Computing Applications"** organized by CMRIT, Bangalore from 6th to 10th November 2023.

- **Mrs. Manjula B G, Mrs. Jayashree G R** and **Mrs. Tejaswini G V** attended a 5 Days Virtual FDP on **"Artificial Intelligence Machine Learning for Satellite Image Analysis- Matlab & Python Perspective"** organized by CMRIT, Bangalore from 20th to 24th November 2023.
- **Dr. Karthik P** attended the **"IEEE R10 Symposium and Leadership Conference"** organized by the IEEE Sensors Council from 1st to 3rd December 2023.
- **Mrs. Jayashree G R** attended the 3 Days E-workshop on **"Master Python for Data Analysis"** conducted by CMRIT, Bangalore, from 3rd to 5th December 2023.
- **Mrs. Renuka V Tali** attended a FDP on **"VLSI SoC design with RISC-V"** organized by Maven Silicon, Bengaluru from 4th to 8th December 2023.
- **Mrs. Jayashree G R** attended a FDP on **"Modeling Communication Systems using Matlab and Simulink"** organized by JSSATE, Bangalore on 4th and 5th December 2023.

FACULTY AS EXTERNAL RESOURCE PERSONS

- **Mr. Dileep J** participated as Resource person in association with SST Technologies, forthe Hands-On Workshop titled **"Applications of IoT using Blynk and Google Firebase"** at PESCE, Mandya from 2nd to 5th August 2023.
- **Dr. K Senthil Babu** delivered a talk on **"Electronics and Communication Trends and Scope"** at the MBA Department of KSSEM on 10th August 2023.
- **Mr. Dileep J** participated as Resource person in association with SST Technologies, for the Hands-On Workshop titled **"Applications of IoT using Blynk and Google Firebase"** at Sambhram Institute of Technology, Bangalore on 28th and 29th August 2023.
- **Mr. Dileep J** participated as Resource person in association with SST Technologies, for the Hands-On Workshop titled **"Applications of IoT using Blynk and Google Firebase"** at PESCE, Mandya from 4th to 5th August 2023.
- **Dr. Karthik P** delivered a Technical Talk on **"Cyber Security"** to the 1st Year BCA Students at SRN Adarsh Evening College on 9th and 12th September 2023.
- **Mr. Dileep J** participated as Resource person in association with SST Technologies, for the Hands-On Workshop titled **"AIOT-Enabled Smart Healthcare Systems"** at Adhiyamaan College of Engineering from 20th to 21st September 2023.
- **Mrs. Renuka V Tali** conducted a seminar on **"Verilog Programming"** for the students of Electronics and Communication Engineering at K S Polytechnic on 10th October 2023.

DID YOU KNOW

TRANSISTOR TEAM

In 1947, at the Bell Telephone Laboratories in the USA, John Bardeen (1908–1991, left), Walter Brattain (1902–1987, right), and William Shockley (1910–1989, centre) invented a small, solid device that could amplify electrical signals. They called it a transistor. Until then, the only practical amplifiers were based on fragile glass tubes with a vacuum inside. The team won the Nobel Prize for Physics in 1956.

MASSIVELY OPEN ONLINE COURSES (MOOCs)

- **Dr. Manu D K** completed a NPTEL Course on **"Patent Drafting for Beginners"** during July-October 2023.
- **Dr. Manu D K** completed a NPTEL Course on **"Introduction to Internet of Things"** during July-October 2023.
- **Dr. Arun Kumar M** completed a NPTEL Course on **"Accreditation and Outcome Based Learning"** during July-September 2023.
- **Mr. Gopalakrishna Murthy C R** completed a NPTEL Course on **"Patent Drafting for Beginners"** during July-August 2023.
- **Mrs. Manjula B G** completed a NPTEL Course on **"Patent Drafting for Beginners"** during July-August 2023.
- **Mr. Ravikiran B A** completed a NPTEL Course on **"Research Methodology"** during July-October 2023.
- **Mrs. Renuka V Tali** completed a NPTEL Course on **"Educational Leadership"** during July-October 2023.
- **Mr. Syed Waseem Tabraiz** completed a NPTEL Course on **"Introduction to Internet of Things"** during July-October 2023.
- **Mrs. Hemapriya M** completed a NPTEL Course on **"Patent Drafting for Beginners"** during July-August 2023.
- **Mrs. Tejaswini G V** completed a NPTEL Course on **"Patent Drafting for Beginners"** during July-August 2023.

STUDENT ACHIEVERS

Participation in Competitions

- **A Yuvashree** and **Jyothiswar Reddy** from 7th Semester ECE, obtained 2nd prize in **Electromania** at BMSCE on 18th November 2023.
- **Akshatha S, Pooja G, Tejashree M, Jaswanth K Chowdary, Uma Chowdary** and **Usha Chowdary** participated in **Electromania** at BMSCE on 18th November 2023.
- **A Yuvashree, Jyothiswar Reddy, Akshatha S, Pooja G, Tejashree M, Jaswanth K Chowdary, Uma Chowdary** and **Usha Chowdary** have represented and gave a presentation at the **IEEE Sensors Council Bangalore Chapter Student Congress 2023** at BMSCE on 18th November 2023.

MOOCs and Online Courses Attended

- **Ms. Ananya N** and **Mr. K Chennakeshava Naidu** attended a Short-Term Certification Course on **"Strategy Formulation and Data Visualization"** organized by IIT Madras from 10th to 14th July 2023.
- **Ms. R M Lavya** completed a **"Python Foundation Level- Full stack development course"** in September 2023.
- **Ms. R M Lavya** and **Mr. Dhanush B** completed the Mathworks Virtual Internship Course titled **"MATLAB Onramp"** from May-September 2023.
- **Ms. R M Lavya** and **Mr. Dhanush B** completed the Mathworks Virtual Internship Course titled **"Signal Processing Onramp"** from May-September 2023.
- **Ms. R M Lavya** and **Mr. Dhanush B** completed the Mathworks Virtual Internship Course titled **"Image Processing Onramp"** from May-September 2023.
- **Ms. R M Lavya** and **Mr. Dhanush B** completed the Mathworks Virtual Internship Course titled **"Machine Learning Onramp"** from May-September 2023.
- **Ms. R M Lavya** and **Mr. Dhanush B** completed the Mathworks Virtual Internship Course titled **"Deep Learning Onramp"** from May-September 2023.
- **Ms. R M Lavya** completed the Mathworks Virtual Internship Program on **"Get Started with Artificial Intelligence"** from May – September 2023.
- **Mr. Naveen Kumar K** completed the certification course on **"IOT and Electronics"** conducted by Infosys in November 2023.
- **Mr. Naveen Kumar K** completed the certification course on **"Java for Beginners"** conducted by Infosys in December 2023.

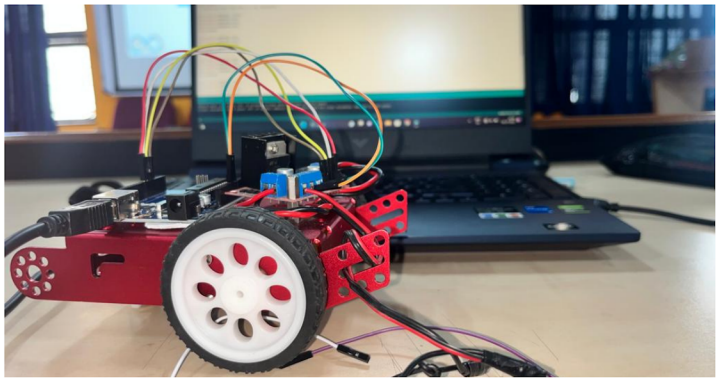
Participation in Sports Activities

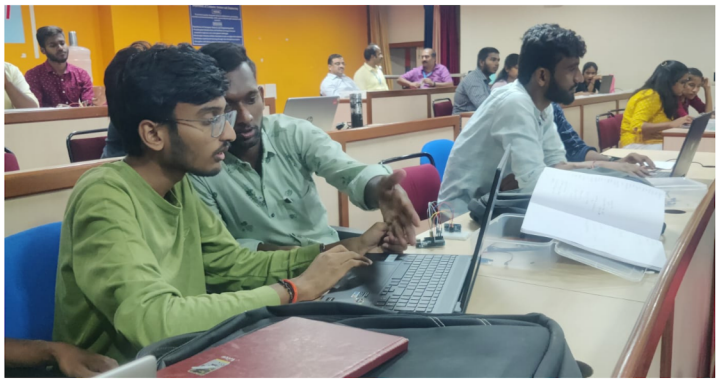
- **Sneha D, Bhuvana G H and Aisiri Dilip** participated in the VTU Table Tennis Tournament on 12th and 13th July 2023.
- **E Joshna, Shivani N, Manoj P K, L Sai Chowdhary, Mohammad Imran and Bittu Kumar** participated in the VTU Badminton Tournament on 18th and 19th July 2023.
- **Sathvik A N, Koushik and Kaushik S** participated in the VTU Football Tournament on 23rd and 24th August 2023.

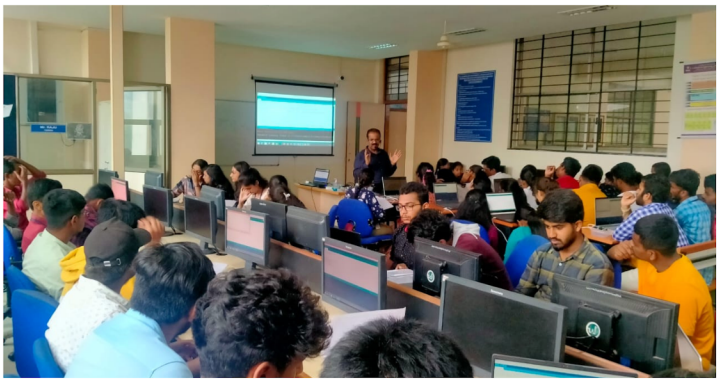
> "Learning gives creativity, creativity leads to thinking, thinking provides knowledge, and knowledge makes you great"
>
> *-Dr. APJ Abdul Kalam*

GLIMPSE OF DEPARTMENT SPORTS ACTIVITY

GLIMPSE OF DEPARTMENT TECHNICAL ACTIVITY







AFTER ENGINEERING – JOB PROSPECTS

A BE Degree from Electronics and Communication Engineering provides you with the fundamental skills and knowledge to pursue a career not only in the field of Electronics, but also in allied fields like Computer Science, Mechatronics and Robotics, Biomedical Engineering, Aerospace Engineering and many others!

The job prospects for an Electronics and Communication Engineering (ECE) graduate can be quite promising, as the field is integral to various industries and technologies. Here are some potential job opportunities:

- **Telecommunications Engineer:** ECE graduates can work in the telecommunications industry, designing and maintaining communication systems, such as mobile networks, satellite systems, and broadband services.
- **Electronics Design Engineer:** These professionals are involved in designing electronic components, circuits, and systems. They may work on projects ranging from consumer electronics to industrial applications.
- **Embedded Systems Engineer:** ECE graduates can work in the field of embedded systems, developing software and hardware for various applications, including medical devices, automotive systems, and industrial automation.
- **Network Engineer:** Network engineers focus on designing, implementing, and maintaining computer networks. This could include local area networks (LANs), wide area networks (WANs), and data center networks.
- **Signal Processing Engineer:** Signal processing engineers work on analysing, interpreting, and manipulating signals. This can be applied in various fields, including audio and video processing, telecommunications, and medical imaging.
- **Control Systems Engineer:** Control systems engineers design and implement systems to control and regulate processes in industries such as manufacturing, automotive, and aerospace.
- **Robotics Engineer:** Robotics engineers work on designing, building, and programming robots for various applications, from manufacturing to healthcare.
- **Power Electronics Engineer:** In this role, professionals focus on the design and implementation of power electronic systems, such as inverters, converters, and power supplies.
- **IoT (Internet of Things) Engineer:** With the growing importance of IoT, ECE graduates can work on developing and implementing solutions for interconnected devices and systems.
- **Research and Development (R&D) roles:** ECE graduates can contribute to research and development in both academic and industrial settings, exploring new technologies, improving existing systems, and pushing the boundaries of innovation.
- **Consulting:** Some ECE graduates choose to work as consultants, providing expertise to businesses on a wide range of electronic and communication technologies.

The job market can vary depending on factors such as location, industry trends, and economic conditions. Staying updated on emerging technologies, acquiring relevant certifications, and gaining practical experience through internships or projects can enhance your job prospects in the field. Additionally, networking and building connections within the industry can open up opportunities for career advancement.

> “Science knows no country because knowledge belongs to humanity, and is the torch which illuminates the world. The real wealth of a nation is its people who are endowed with the gift of creativity and the capacity for innovation”
>
> *-Satyendra Nath Bose*

FACULTY COORDINATORS

Prof. Ravikiran B A
Asst. Professor Dept of ECE

Prof. Sanjay B Nayak
Assoc. Professor Dept of ECE

Mrs. Megha P
Office Assistant and Dept of ECE

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V sem, ECE

Sathvik AN
V sem, ECE

Shashank S
V sem, ECE

Shreya Dambal
V sem, ECE

Anika
V sem, ECE