RAJEEV INSTITUTE OF TECHNOLOGY, HASSAN
Plot 1-D, Growth Center, Industrial Area, B-M Bypass Road, Hassan, Karnataka 573201

Department of Electronics and Communication Engineering

Department Magazine

VOL 3 | 2023

E-LITE

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MoU with

TechFLUENT Solutions Private Limited, Hyderabad.

RAJEEV INSTITUTE OF TECHNOLOGY

Plot 1-D, Growth Center, B-M Bypass Road,
Hassan, Karnataka 573201

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Department of Electronics and Communication Engineering

VISION

To create professionally competent and ethically behavioural Electronics and Communication Engineers capable of working across the globe.

MISSION

- To impart quality education relevant to electronics and Communication Engineering.
- To ensure the learning of latest technologies for career advancements in the relevant field.
- To instigate professional ethics, leadership qualities and societal service.

PEO'S

- To provide students with fundamentals and in-depth knowledge in electronics and communication engineering including theoretical knowledge, practical skills and problem-solving abilities.
- To train students in multidisciplinary areas to analyse, design and innovate solutions to real world problems leading to socio economic development.
- To inculcate individual, team work and leadership qualities by upholding professional and ethical values.

PSO'S

- Graduates will have strong foundation in communication, embedded systems, VLSI and electronic circuits.
- Graduates will be able to apply the knowledge of electronics and communication engineering to identify, formulate and solve engineering and societal problems with the aid of modern tools and techniques.
- Graduates will be able to work effectively in challenging environments by upholding ethical values in their profession leading them to become potential entrepreneurs.

Dr. Rachana Rajeev



PRESIDENT MESSAGE

I am delighted to address you through this message for the latest edition of Department magazine of Electronics and Communication Engineering Department, **“E-LITE”.**

Rajeev Institute of Technology stands as a testament to the vision and perseverance of its esteemed founder, Dr. V Rajeev. His visionary leadership has paved the way for a holistic learning environment.
"E-LITE” is a platform which reflect the achievements of our students and staff members in academic and innovational engagement.

I would like to congratulate the editorial team, faculty advisors, and contributors, who have dedicated , time effort and passion to make this edition of **“E-LITE”** successful. I hope that **“E-LITE”** continues to evolve and inspire for years to come, reflecting the growth and achievements of the **Electronics and Communication department.**

All the best for your endeavours

Dr. Mahesh P.K.



PRINCIPAL MESSAGE

Over the years the college magazine has provided an opportunity for students to portray their topics of interest and share their ideas. I feel extremely happy to speak to you through the Magazine E-LITE, as Department of Electronics and Communication Engineering is bringing out the annual departmental magazine for the academic year 2023.

I congratulate the Head, Teaching and non teaching staff, editorial board and students of the Electronics and Communication Engineering Department for bringing this edition of Magazine 2023 .

Wish you all the best

Dr. Aravind B. N.



HOD MESSAGE

It brings me great pleasure to address you through this message for the latest edition of Department magazine of Electronics and Communication Engineering Department,
“E-LITE”

Our students and colleagues continue to make our Department proud as they have shown extravaganza performance in the **curricular, co-curricular and extra-curricular activities**. Through this magazine, I hope to share all the remarkable accomplishments of our Department.
I would like to thank our **Management, Principal, colleagues, students and other stakeholders** for supporting us and making it possible to contribute back to society. With your support, our, Department will continue to excel and contribute to our society to **make it a better place to live.**

FACULTY DETAILS



Dr. Aravind B.N.

Professor & Head,
Department of Electronics & Communication Engineering



Dr. Rammurthy D

Associate Professor,
Department of Electronics & Communication Engineering



Mrs. Ambika K.

Assistant Professor,
Department of Electronics & Communication Engineering



Mrs. Rekha M. G.

Assistant Professor,
Department of Electronics & Communication Engineering



Mr.Vishwanath B. R.

Assistant Professor,
Department of Electronics & Communication Engineering



Mr. Ravi L.S

Assistant Professor,
Department of Electronics & Communication Engineering



Mr. Shubas S. R

Assistant Professor,
Department of Electronics & Communication Engineering



Mr. Rohith P

Assistant Professor,
Department of Electronics & Communication Engineering



Mrs. Manasa A

Assistant Professor,
Department of Electronics & Communication Engineering



Mrs. Lokeshwari H.S.

Assistant Professor,
Department of Electronics & Communication Engineering



Mr. Roopesh A. R

Assistant Professor,
Department of Electronics & Communication Engineering



Mrs. Supriya Ananth K. A

Assistant Professor,
Department of Electronics & Communication Engineering

Non - Teaching Staff



Ms. Ramya C K

Foreman, Department of Electronics & Communication Engineering



Mr. Ramesh K N

Attender, Department of Electronics & Communication Engineering



Ms. Leelavathi S M

Instructor Department of Electronics & Communication Engineering



Mr. Ranganath K P

Attender, Department of Electronics & Communication Engineering



Mr. Mohankumar H S

Assistant Instructor, Department of Electronics & Communication Engineering

LAB INFRASTRUCTURE

Analog and Digital Electronics laboratory is specially designed and developed for the students to learn about the basic concepts related with the study of rectifiers, amplifiers and oscillators and combinational and sequential logic circuits. The emphasis is also laid for the simulation of logic circuits using with suitable ISE. This laboratory course enables students to get practical experience in design, realization and verification of logic circuits using Digital IC Trainer Kit.



Analog and Digital Electronics Laboratory



Communication Laboratory

Advanced communication laboratory will enable students to design & demonstrate the concepts of analog and digital modulation techniques. Students conduct experiments in a communication lab where they become acquainted with oscilloscopes, signal generators, microwave test bench, microstrip dipole and Yagi antennas, directional couplers and optical fibres. Students also learn to simulate the communication concepts, compute and display various resultant parameters along with plots/figures using suitable simulation environments.

The Verilog HDL Laboratory gives hands on experience in the field of Digital Circuits. Verilog is a hardware description language (HDL) used to model electronic systems. It is most commonly used in the design and verification of digital circuits at the register-transfer level of abstraction. Programming can be done using any compiler by downloading the programs on a Spartan FPGA/CPLD boards and performance testing is done using 32 channel pattern generator and logic analyzer.



HDL Laboratory



Embedded Controller Laboratory

Embedded controller Lab enables students to understand the instruction set of ARM Cortex M3- a 32 bit Microcontroller, Programming the microcontroller in Assembly language and Embedded C language using various tools. In this lab "LPC1768" based evaluation boards are used for execution of programs and interfacing various external devices. Keil IDE tool is used for developing the programs and compiling. Flash Magic Tool is used for Programming the Microcontroller.

Digital signal processing laboratory helps the students to learn, analyze and design the techniques that give core knowledge for DSP engineers to develop the laboratory aims at supporting the teaching and research activities in the area of DSP. The laboratory has both software tools and DSP processors. Students also use TMS 320C6713 floating-point processor. Programing of the DSP chip is done in C -language using the Code Composer Studio integrated development environment.



DSP Laboratory



LabVIEW Laboratory

LabVIEW (Laboratory Virtual Instrumentation Engineering Work Bench) is a platform and development environment for a graphical programming language from National Instruments. LabVIEW, is used to build virtual instrumentation and take an effective graphical system design approach. LabVIEW is a proven integrated development environment for interfacing with measurement and control hardware, analyzing data, publishing results, and distributing systems using a graphical programming approach.

EVENTS

Application of AI & ML

A Seminar on “Application of AI & ML in various fields” on 25th April 2023. The resource person was Dr. Pradeep K G M, Associate Professor, Dept. of E&C, SIET, Tumakuru



Virtual Instruments using LabVIEW



A Workshop on “Virtual Instruments using LabVIEW” was organized in association with TechFLUENT Pvt. Ltd, Hyderabad on 2nd - 6th May 2023. The resource persons were Dr. N Bala Dastagiri and Mr. P Rohith Goud, Techfluent Solutions Pvt. Ltd., Telangana.

Job Opportunities in VLSI and Embedded Systems.

A Technical Talk on “Job Opportunities in VLSI and Embedded Systems” on 7th June 2023. The resource person was Mr. Madhusudhan H, Co founder, Pentagon Space.



Simulation of Circuit using ORCAD PSpice.



A 3-day workshop on “Workshop on “Simulation of Circuit using ORCAD PSpice” on 22nd to 24th June 2023. The resource person was Mr. Sathish Kumar K S, Assistant Professor, NIT, Raichur.

EVENTS

Beyond Degree: A way to Civil Services.



Department of E&CE, in association with IETE, IIC, ED and T&P Cell has conducted invited Talk on “Beyond Degree: A way to Civil Services" for 5th and 7th Semester students on 8th December 2023. The Resource Person was Mr. Anil Kumar Bulla, MD, Credence IAS, Bangalore

A Roadmap to Entrepreneurship

Department of E&CE, in association with IETE, IIC, ED and T&P Cell has conducted Invited Talk on “A Roadmap to Entrepreneurship” for 7th Semester students on 8th December 2023. The Resource Person was Mr. Harshith D, Unisys India Pvt. Ltd. Bangalore



TECH CONNECT-2K23



The Department of Electronics and Communication has organized a Technical event named “TECH CONNECT-2K23” on 19th December 2023. The tech fest was held with the support of Final year students which was coordinated by the staff of E&CE department in association with IETE, IIC and ED CELL.

Industrial Visit to MCF

The Department of Electronics and Communication has organized a one day Industrial Visit for 5th semester students on 27th December 2023 to Master Control Facility, Hassan.



STUDENT ACHIEVEMENTS



- **Ms. Kruthika H M has received D Ramanjanamma Memorial Award for securing highest CGPA of 8.93 of 2019-23 batch**

- **Mr. Swagath B J** has **Won 1st Prize in Paper presentation at State level Techno cultural Fest SAVISHKAR-2023** held on January 2023 **at Jain College of Enginerring Research, Udyambag, Belagavi.**



- **Mr. Samrudh Sujai M , Mr.B S Tejas , Mr.Shri Rohith Challagulla and Mr. Vikas R** has participated in Project Exhibition "**Jnana-vijnana-Tantrajnan mela-2023**" held on 19th and 20th feb 2023 at **ACU,BG Nagar**.





- **Mr. Varun M S** has done his **Internship on Automatic puncture detection machine using Lab VIEW** held on 27th Feb to 20th March 2023 at **Vi solutions Bengaluru.**
- **Mr.Swagath B J , Mr. Bharath R , Mr. Vikas R and Ms. Kruthika H M** has Participated in **project competition and giving best Business Idea for the development of the country** held on 28th Feb 2023 at **FKCCI MANTHAN , Bengaluru**.
- **Mr. Swagath B J** has participated in National level paper presentation of **ENIGMA 2023 -annual state level technical fest** held on June 2023 at **Malnad college of Enginerring, Hassan.**
- **Mr. Swagath B J, Ms. Rashmitha S, Ms.Poorvika H R, Ms.Aishwarya T M** has participated in **TECHCONNECT - 2K23 Project Exhibition** held on 19th December 2023 at **RIT Hassan.**
- **Ms. Hamsa D** has participated in **Young Io Prodigy** held on 8th Sep 2023 at **infosys .**

- **Mr. Manoj S** has Participated in **VTU Central Karnataka Zone Men Cricket Tournament 2022-2023** held on 13th to 15th March 2023 at **PESITM, Shivamoga.**



- **Mr. Abhay K P** has Participated in **VTU Central Karnataka Zone Men Volleyball Tournament 2022-2023** held on 18th to 19th March 2023 at **AIT, Chikkamagalur.**
- **Mr. Swagath B J** has Participated in Paper presentation event of **INSIGNIA'23** held on May 2023 at **SDM college of Enginerring & Technology Dharwad**.
- **Mr. Vikas K Y** has participated in **24th VTU Inter Collegiate State Level Athletic Meet 2022-2023** held on May 2023 at **VTU, Belagavi**.

- **Ms. Harshitha M P, Ms. Nisarga B R , Ms. Rakshitha Raj, Ms. Harshitha B J** has Participated in **VTU Central Karnataka Zone Women Throwball Tournament 2022-2023** held on 16th to 17th March 2023 at **GMIT, Davangere.**



KSCST Funded Project

The project **"Solar Organic Waste Composter"** carried out by Ms. Spoorthi D N, Ms. Tejaswini A, Ms. Harshitha C R and Ms. Anusha B U, 8th sem, under **the guidance of Manasa A has been funded by KSCST.**

Faculty Publications

- Mr. Ravi L S, Dr. Deepak H A, Deepak R, Farzana Parveen B A, Tanuja T**" Analysis of Value Stream Mapping Framework with Machine Learning Techniques**" Grenze International Journal of Engineering and Technology(GIJET), Volume 9 Issue 2 June 2023.
- Ravi L.S, **"Digital system design of ALU using Reversible logic gates"** International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2023) ISSN 979-8-3503-0692-7, 10.1109/ICRASET59632.2023.10420008 Scopus Indexing-2023.
- Ravi L.S, **"Study on VGG16 Transfer learning Model for Goat/Sheep Image Classification"** International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2023) ISSN 979-8-3503-0692-7, 10.1109/ICRASET59632.2023.10420202, Scopus Indexing-2023.
- Vishwanath B R, **"Three-Phase Cascade H-bridge Inverters: A Comparative Study of GOA and FGOA for Selective Harmonic Elimination"** International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2023) ISSN 979-8-3503-0692-7, 10.1109/ICRASET59632.2023.10419989, Scopus Indexing-2023.
- Ravi L.S, **"Gray Level Image Contrast Enhancement Using Hybrid BAT and Moth Flame Optimization"** International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2023) ISSN 979-8-3503-0692-7, 10.1109/ICRASET59632.2023.10420099, Scopus Indexing-2023.
- Vishwanath B R, **"Classification of Fall Detection Based on Daily Living Activities using Machine Learning Approach"** International Conference on Recent Advances in Science and Engineering Technology (ICRASET-2023) ISSN 979-8-3503-0692-7, 10.1109/ICRASET59632.2023.10420219, Scopus Indexing-2023.
- Vishwanath B R, Samrudh sujai M, Vikas K Y, Shri Rohith Challagulla "Crop Yield Prediction using Machine Learning Analysis", Grenze International Journal of Engineering and Technology (GIJET), Volume 9 Issue 2 June 2023.

- Ravi L.S, Vikas R, Bharath R, Varun M.S, Hemanth M L, “Design and Implementation of n bit Sequence Detector using FSM Model”, Grenze International Journal of Engineering and Technology (GIJET), Volume 9 Issue 2 June 2023.
- Mr. Praveen Sindagi and Dr. Mahesh P. K **“A Review Paper on Brainwave Sensor for Identification and Control of Hypertension”** Grenze International Journal of Engineering and Technology (GIJET), Volume 9 Issue 2 June 2023.
- Mr. Ravi L S, Dr. Deepak H A, Deepak R, Farzana Parveen B A, Tanuja T**” Analysis of Value Stream Mapping Framework with Machine Learning Techniques**” Grenze International Journal of Engineering and Technology(GIJET), Volume 9 Issue 2 June 2023.
- Sinchana G S, Ambika K, Arpitha G A and Choodarathanakara A L, **“Supervised Maximum Likelihood Approach for Land use Land Cover Dynamics of Semi-Urban Region”**, Grenze International Journal of Engineering and Technology(GIJET), Volume 9 Issue 2 June 2023.
- Lokeshwari H S, Halappa R Gajera, **“Cross Polarized Radiations Suppression in Modified Sphere Dielectic Resonator Antenna Using Perturbation Technique”**, Grenze International Journal of Engineering and Technology, Issue 2 June 2023.
- Arpitha G A, Manasa A, Sinchana G S and Choodarathanakara A L **“Estimation of landslide damage areas in Madenaadu Kodagu District using minimum Distance classifier”** Grenze International Journal of Engineering and Technology, Issue 2 June 2023.
- Ankitha S and Roopesh A R **” MVR: A Mobile Edge Computing Framework for Performance Offloading ”** Grenze International Journal of Engineering and Technology(GIJET), Volume 9 Issue 2 June 2023.
- Swagath B J, Ravi L.S, Dr. Naveen K B” **Anti-Theft Vehicle Protection**” Proceeding of National Conference on Emerging Technologies in Engineering- NCETE-2023, 12 May 2023, NCE-Hassan.
- Manoj prasath .T , M.Hari Hara Suthan , Dr Diksha Srivastava , Rohith P , Dr. Harpreet Kaur , Dr. Allam Balaram, **“Novel Approach Of Breast Cancer Detection Based On Wireless Communication System”**, Journal of Pharmaceutical Negative Results , Volume 14 , Special Issue 2, 2023.

Faculty Achivements

- Mr. Rohith P was granted the patent on **" Remote Aquatic Environmental Monitoring using IoT "** by the Indian Patent office.
- Dr. Aravind B N has published book chapter **" A novel Algorithm for Reconfigurable Architecture for Software Defined Radio Receiver on Baseband Processor for Demodulation"** in a book titled **"Sustainable Computing", Springer Online, Jan 2023**.
- Dr. Aravind B N has published book chapter **"Image Denoising: Important Methods in Spatial Domain and Transform Domain"** in a book titled **"Human Machines Interface Technology Advancement and Management"** Publisher "**Taylor and Francis" , September 2023**

STTPs/FDPs

- Shubas S R has attended One Week FDP on "**Digital logic & Embedded System Design using Intel FPGAs"**, at Dayananda Sagar College of Engineering, Bengaluru from 6th to 11th November 2023
- Ravi L S, Manasa A and Lokeshwari H S have attended 5 days FDP on "**Emerging Trends in Signal Processing, Image Processing and Artificial Intelligence"**, SJMIT, Chitradurga from 12th to 16th September 2023
- Supriya Ananth K A has attended 5 days FDP on **"Design of Analog and Digital IC using Cadence tool"**, at PESIT&M, Shimogga from 17th to 22nd August 2023
- Mr. Ravi L S and Mrs. Lokeshwari H S has successfully completed the Training of Trainers Program on **"Blockchain Technology"** under Future skills Prima Program held from 09th March 2023 to 24th March 2023 by CDAC, Hyderabad.
- Dr. Aravind B N, Mrs. Ambika K, Mr. Vishwanath B R, Mr. Rohith P, and Mrs. Manasa A has successfully completed the Training of Trainers Program on "**Cyber Security"** Essentials under Future skills Prime Program held from 15th February 2023 to 28th February 2023 by CDAC, Hyderabad.

- Mrs. Ambika K, Mrs. Rekha M G, Mrs. Manasa A and Mrs. Lokeshwari H S has successfully completed the Certificate course on **"Digital teaching Techniques"** under R systems women educators empowerment program from 02.02.2023 to 17.02.2023 by ICT Academy.
- Mrs. Rekha M G has attended Six days online workshop from 19.06.2023 to 24.06.2023 on **"Design Thinking and Entrepreneurship"** organized by Alliance university Bengaluru.
- Dr. Aravind B N, Mrs. Radhika K A, Mr. Rohith P have attended One Week AICTE–VTU Joint Teachers Training Programme on **“Introduction to Python Programming & its Applications”** Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101 from 19.06.2023 to 23.06.2023.
- Mr. Ravi L.S., Mrs. Ambika K, Mrs. Manasa A, Mrs. Radhika K A have attended One Week AICTE–VTU Joint Teachers Training Programme **“Electronics Circuit Design using Lab View”** Organized by Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101 from 12th to 16th June 2023
- Mr. Rohith P and Mr. Roopesh A R have attended Five Days Faculty Development Program on **“Biology for Engineers”,** Organized by Department of Mechanical Engineering, Jain college of Engineering, Belagavi, in collaboration with VTU Belagavi from 30.05.2023 to 03.06.2023.
- Mrs. Ambika K, Mrs. Rekha M G, Mrs. Manasa A, Mrs. Lokeshwari H S and Mrs. Radhika K A have attended Five Days Faculty Development Program on **“Virtual Instruments using LabVIEW”**, Organized by Department of Electronics and Communication Engineering, Rajeev Institute of Technology, Hassan from 02.05.2023 to 06.05.2023.
- Mrs. Ambika K, Mr. Vishwanath B R, Mr. Ravi L S, Mr. Rohith P, Mrs. Manasa A, and Mrs. Lokeshwari H S have attended 6 days AICTE-VTU joint online training program on **"Analog VLSI Design using EDA Tools"** organised Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101 from 20.03.2023 to 25.03.2023.

- Mrs. Lokeshwari H. S has attended 5 days Faculty Development Program on **“Design Of High-Frequency Antennas For Real-Time Applications”** Organized by Department of ECE GMR Institute of Technology Rajam, Andra Pradesh from 14.03.2023 to 18.03.2023.
- Mr. Ravi L S, Mrs. Lokeshwari H S and Mr. Rohith P have attended 5 days Faculty Development Program AICTE-VTU joint online training program on **“Introduction to Python Programming & Its Applications”** organized Visvesvaraya Technological University, Centre for PG Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) - 562101 from 13.03.2023 to 17.03.2023.
- Mr. Vishwanath B R and Mrs. Manasa A have attended 5 days Faculty Development Program on **“Advances in VLSI Technology”**, BMSCE, Bengaluru from 13.03.2023 to 17.03.2023 .



AICTE Activity

5th Sem Students have carried out an AICTE Activity on creating awareness about Higher education prospects among High school students.





5th Sem Students have carried out an AICTE Activity on creating awareness about aerospace related studies among High school students.



5th Sem Students have carried out an AICTE Activity on creating awareness about Malnutrition, Water conservation and Social media for school students.







Neuromorphic Computing



Mr. Rohith P
Assistant Professor

The human brain is the undisputed king of computation, able to perform tasks that even the most powerful supercomputers cannot match. What if we could harness the brain's secrets and build machines that think like it? This brings us to the fast developing topic of neuromorphic computing, which aims to bridge the gap between silicon and synapses.

Neuromorphic computing is a innovative discipline, which aims to create computing systems modeled after the biology of human brain networks, is undergoing a wave of innovation that could transform information processing and help us solve difficult problems.

Neuromorphic computing mimics the working of the human brain, as opposed to the rigid von Neumann architecture for a more dynamic, parallel approach. Neuromorphic computing has a bright future ahead of it. The applications seem endless, ranging from intelligent robots to real-time brain-computer interface-powered tailored healthcare.

Research and investment in the subject are surging despite the obstacles. Neuromorphic computing is attracting the attention of governments, tech companies and startups alike, who see its potential.

Neuromorphic computing is the next significant advancement in computers. Instead of more processors or greater clock speeds, what we may see is a computer that emulates the remarkable abilities of the human brain through learning and adaptation - a real silicon symbiosis

Revolutionizing Education

The Impact of Modern Technology



Mrs. Ambika K

Assistant Professor

The traditional classroom in the twenty-first century has been replaced with an engaging and dynamic learning environment thanks to the integration of education and technology. Modern schooling has changed dramatically as a result of the incorporation of cutting-edge technologies. This article examines the numerous ways that technology has improved teaching and learning environments and transformed education.

The traditional classroom in the twenty-first century has been replaced with an engaging and dynamic learning environment thanks to the integration of education and technology. Modern schooling has changed dramatically as a result of the incorporation of cutting-edge technologies. This article examines the numerous ways that technology has improved teaching and learning environments and transformed education.

1. Digital Learning Platforms: The emergence of digital learning platforms is one of the biggest developments in contemporary education. With the use of these platforms, educators and students can access a multitude of resources, such as interactive simulations, films, e-books, and online tests. Learning Management Systems (LMS) facilitate the efficient arrangement, dissemination, and monitoring of instructional materials, promoting a more adaptable and customized educational encounter.

Revolutionizing Education

The Impact of Modern Technology

2. Blended Learning: This approach blends traditional in-person training with virtual components. This method enables a more customized educational experience that takes into account each student's unique learning preferences and pace. By interacting with multimedia resources, working together on online projects with classmates, and getting quick feedback, students can gain a deeper comprehension of the material.

3. Virtual reality (VR) and augmented reality (AR): These immersive technologies have given education a new facet. With the help of interactive 3D models, simulated experiments, and virtual field trips, students can study ideas beyond what is covered in textbooks. These technologies give students a hands-on, immersive approach to learning, which increases learning's engagement and retention.

4. Adaptive Learning Systems: These systems use artificial intelligence to customize course material according on each student's success. These systems evaluate the strengths and weaknesses of the pupils and modify the learning materials' complexity and pace accordingly. By ensuring that every student receives focused support, this individualized learning strategy promotes a more effective and efficient learning environment.

5. Data Analytics for Educational Insights: Data analytics in education offers insightful information about learning patterns and student performance. Teachers are able to monitor their pupils' development, spot areas for growth, and modify their lesson plans accordingly. More initiative and personalization in the educational process are made possible by this data-driven strategy.

Chandrayaan-3 Mission



Sinchana K
5th Semester

The Chandrayaan-3 mission was originally planned as a follow-up to Chandrayaan-2, which encountered technical difficulties during the soft landing attempt of the Vikram lander in September 2019. To ensure the success of the next mission, ISRO decided to take a thorough approach, revisiting the launch vehicle, rover, and lander designs.

Lander and Rover:

Chandrayaan-3 will consist of a lander and a rover, similar to its predecessor. The lander will be designed to make a soft landing on the lunar surface, allowing for enhanced scientific experiments.

The rover, equipped with various instruments, will then be deployed to explore the surface and collect data. ISRO plans to use the GSLV Mk III launch vehicle to carry Chandrayaan-3 into space. This rocket is known for its high payload capacity and successful track record, including the launch of Chandrayaan-2. It will be responsible for propelling the spacecraft towards the Moon & @69 degree orbit.

Scientific Objectives:

Chandrayaan-3 aims to build upon the scientific achievements of the previous missions. The primary focus of the mission is to study the presence of water and minerals on the lunar surface, which could be crucial for future lunar habitation and resource utilization. The mission will also explore the possibility of a future manned mission to the Moon, as part of India& @69 degree long-term space exploration goals. By advancing our understanding of lunar geology, Chandrayaan-3 will contribute valuable data to the global scientific community.

Collaboration and Timelines:

ISRO has invited international partners to contribute to the Chandrayaan-3 mission. NASA, the United States & @69 degree space agency, has already expressed interest in collaboration. This joint effort will enable the sharing of resources, expertise, and data, further enhancing the mission's scientific output. The launch of Chandrayaan-3 was initially scheduled for 2020 but had to be postponed due to the COVID-19 pandemic. ISRO has indicated that the revised timeline will be announced soon.

Conclusion:

Chandrayaan-3 represents another significant step in India's space exploration journey. With its scientific objectives focused on further understanding the Moon and its resources, it has the potential to contribute valuable knowledge to both the Indian and global scientific communities. As we eagerly await its launch, Chandrayaan-3 holds the promise of new discoveries and advancements in lunar exploration.

Imagining a life without Electronics and Communication Engineers



Prakruthi S Gowda

3rd Semester

Can we just imagine our daily routine without the electronic gadgets such as mobile phone, tablets, laptops, digital watches, television, ATM, internet banking, wi-fi, microwave oven ,internet connections and much more?
No we can't... All these are possible only due to existence of Electronics and communication engineers.

Try recalling the day you decided to step into the branch of Electronics and Communication where tremendous innovations and your interests attracted you in making career in this field. The urge far new electronic products in the market and fast moving research in this field makes ECE the best choice for ones career in engineering. Electronics and communication has been a backbone for different fields. Some among them are:

- **SPACE COMMUNICATION: Our activities in space is also increasing to tie advanced in space communication. From the intricate communication system that links satellite to ground stations to the sensors and electronic systems that guide spacecraft, ECE is instrumental.**
- **INFANT MORTALITY RATE: Has reduced sudden infant syndrome by development of care monitors which monitor signs such as heart rate , blood pressure, O2 pressure.**
- **HUMANOID ROBOTS : Presently most of the works are replaced by machineries. No doubt, in future humanoid robots will replace humane everything will it available at finger tips and soon these gadgets are going to be part of our lives. The best thing with ECE is that Robotic engineering is progressing with the introduction of reducing human work remarkably.**

All these makes ECE an interesting field there is ample growth in the field of electronics and communication engineering schemes like Startup India fund the young professionals taking forward to be an entrepreneur in the digital world, by 2040 it will grow as one of the blooming sectors in India.

In upcoming decades there will be many revolutions in the field of ECE as transparent smartphones is expected to the launched. On the other hand advancement in artificial Intelligence has been taking the communication to next level where you interact with the devices and they respond.

For all this an individual must have strong technical knowledge great experience at practical level and very good industrial exposure with these the world will grow in leaps and bounds there is no denying in this fact.

BE PROUD TO BE EC ENGINEER's

A LIFE OF COORG…

Coorg, also known as Kodagu (the Scotland of India), is a beautiful district located in the southern Indian state of Karnataka. The district is famous for its lush greenery, coffee estates and with wonderful green mountains. The natives of Coorg appreciate the district's rich cultural heritage and are renowned for their friendly welcome.





Life in Coorg is unique place, and it is not like any other place in Karnataka. And the district has a unique character. The majority of the population of Coorg is a farmers. The three main products farmed in Coorg are coffee, pepper, and cardamom, and the region is well-known for its coffee farms.

The Coorg peoples are known for their love for nature, and they take great care to preserve the forest and environment. The Kodagu district is home to several wildlife sanctuaries and national parks,





And also, the district in Karnataka with a maximum number of people joining the Indian army is Kodagu. Coorg has beautiful tradition of giving a large number of soldiers for the Indian armed forces. The Kodagu region has a rich martial history, and the people of Coorg have a strong and wonderful tradition of military service.

The Coorgi community, is also known as Kodavas, has a distinct warrior and is well-represented in the Indian Army. Many young men and women from Coorg are interested to serve in the armed forces.





Coorg residents are well recognized for having a strong sense of community. The Kodava community is a wonderful community, and they celebrate their coorg festivals and traditions with great enthusiasm. The people of Coorg are also known for their love for sports.

The kodagu district's people love for nature, music, dance, and sports is an inspiration to people across the country. Coorg is a place that everyone should have to visit at least once in their lifetime to experience the beauty of nature.





Swagath B J
8th Semester

"Nature is the source of all true knowledge." –



By, Swagath BJ.....

BRINGING STORIES TO LIFE THROUGH THE LENS



Arsikere,Hassan

"Nature's beauty never falls to amaze"





Manjunath B H
5th sem



Vivek More
5th sem

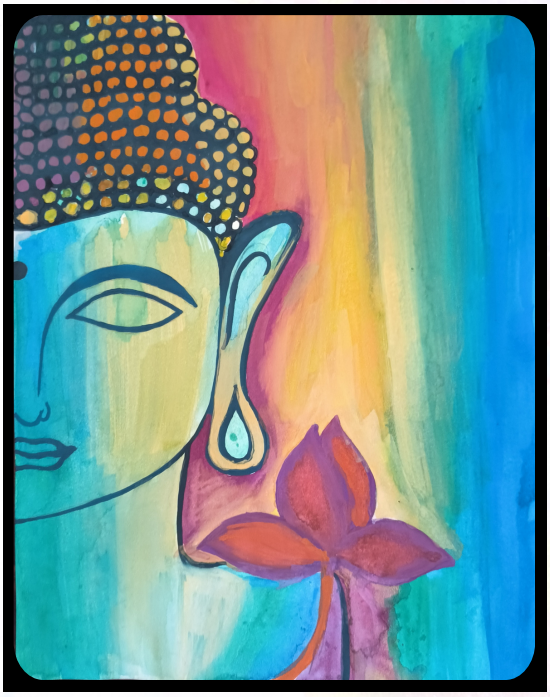




Tom Bridge ,Hassan

"A walk in nature walks the soul back home"

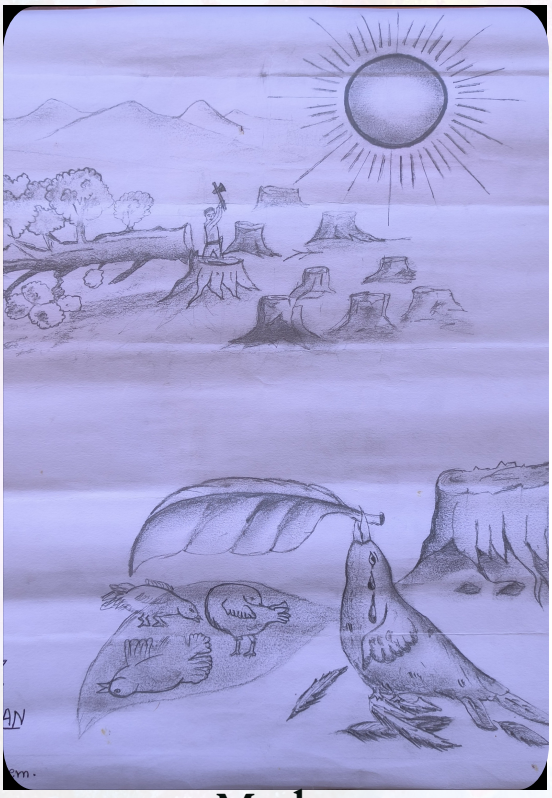
ART



Rani A T
5th sem



Prashanth C N
5th sem



Madan
3rd sem



Aishwarya lakshmi B T
3rd sem

"Painting is just another way of keeping a diary"

PLACEMENTS

SL.No	NAME	USN	COMPANY
1.	YASHASWINI T S	4RA19EC036	GlowTouch
2.	ASIM MOHAMMED DELVI	4RA19EC004	Fidelity National Financial
3.	ABHAY K P	4RA19EC001	NXTE Mobility
4.	MOHAMMAD TAYAIB AYUBI	4RA19EC037	NXTE Mobility
5.	KRUTHIKA H M	4RA19EC015	Accord Soft
6.	NETHRAVATHI D S	4RA19EC018	Devtools
7.	ANUSHA B U	4RA19EC002	Qspider
8.	BHARATH H U	4RA19EC006	X-Workz
9.	HEMANTH M L	4RA19EC011	X-Workz
10.	VIKAS R	4RA19EC020	X-Workz
11.	KEERTHANA H A	4RA19EC013	X-Workz
12.	HARSHITHA M P	4RA19EC010	X-Workz
13.	DEEPIKA GS	4RA19EC008	X-Workz
14.	LAVANYA S	4RA19EC016	X-Workz
15.	SAMRUDH SUJAI M	4RA19EC025	X-Workz
16.	RASHMI BP	4RA19EC406	X-Workz
17.	VISHMITHA D	4RA19EC035	X-Workz
18.	RAKSHITH A V	4RA19EC021	TAP ACADEMY

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