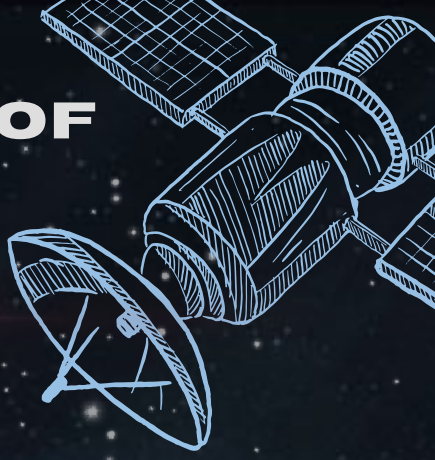
RAJEEV INSTITUTE OF TECHNOLOGY



e-LITE-2022

VOLUME-II

Department of Electronics and communication Engineering

In Our Thoughts.....



Dr. V Rajeev

Founder President

Rajeev Education Trust

RAJEEV INSTITUTE OF TECHNOLOGY

Plot 1-D, Growth Center, B-M Bypass Road, Hassan, Karnataka 573201
Phone: 08172-243180/81/83, Web: rithassan.ac.in

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.**

PRESIDENT MESSAGE



Dr. Rachana Rajeev M.B.B.S., M.D.

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.

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

Our ECE students have established a joint to venture, in bringing out a technical magazine with their contributions. I express my compliments to the HOD, editorial board and student community for their dedication and valuable efforts in bringing out this issue.

I wish them all triumph!

Best Wishes,

Dr. Rachana Rajeev,
President, RET

PRINCIPAL MESSAGE



Dr. Mahesh P K B.E., M.Tech., Ph.D.

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

The department of Electronics and Communication Engineering started in the year 2008, is continually working hard to achieve excellence in academics, innovation and research.

“E-LITE” is a collection of student’s achievements, various activities conducted and participated by the students and faculty members of Department of Electronics and communication Engineering.

I extend my gratitude to the editorial team for their hard work in curating this magazine. Deeply grateful to the students and Faculty members for their invaluable contributions to the magazine.

BEST WISHES,

Dr. Mahesh P.K.
Principal, RIT

HOD MESSAGE



Dr. B. N. Aravind B.E., M.Tech., Ph.D.

It is indeed a happy moment for our Electronics and Communication Engineering Department as the we have successfully brought out the new edition of the technical Magazine "**E-LITE"** for the year 2022. The most important aspect we could derive from this stupendous effort is that it brings out the various technical and analytical skills of the budding engineers. I wish them all the very best for releasing more such magazine inn future.

BEST WISHES,

Dr. Aravind B. N.
HOD, ECE

FACULTY DETAILS



Dr. Aravind B.N.
Professor & Head,
Department of Electronics & Communication Engineering



Dr. Ravikiran H.K.
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



Mrs. Yogeshwary B.H.
Assistant Professor, Department of Electronics & Communication Engineering

FACULTY DETAILS



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



Mr. Revana B.R.
Assistant Professor, Department of Electronics & Communication Engineering

NON - TEACHING STAFF



Ms. Ramya C K
Foreman, Department of Electronics & Communication Engineering



Ms. Leelavathi S M
Instructor Department of Electronics & Communication Engineering



Mr. Mohankumar H S
Assistant Instructor, Department of Electronics & Communication Engineering



Mr. Ramesh K N
Attender, Department of Electronics & Communication Engineering

DEPARTMENT ACTIVITIES

Seminar on,

"E-WASTE MANAGEMENT"

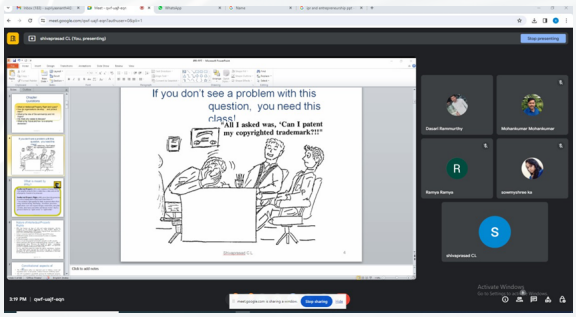


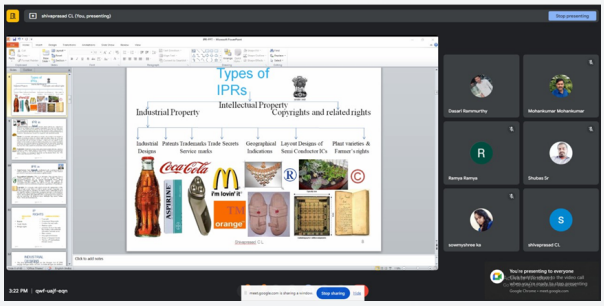


The Department of E&CE, in association with IETE has conducted a Seminar on "E-Waste management" for E&CE students on 8th Jan 2022.
The resource person was Mr. Chandrashekhar H S, Assistant professor, Department of IS&E, MCE, Hassan.

Seminar on,

"IPR & ENTREPRENEURSHIP"





The Department of E&CE, in association with IETE has conducted a Seminar on "IPR & Entrepreneurship" for 8th semester students on 23rd April 2022.
The resource person was Mr. Shivaprasad, CI Academy, Bangalore.

Seminar on,

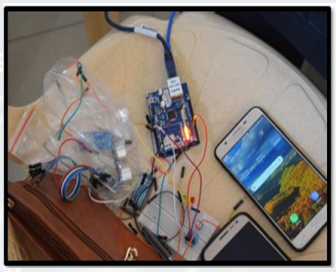
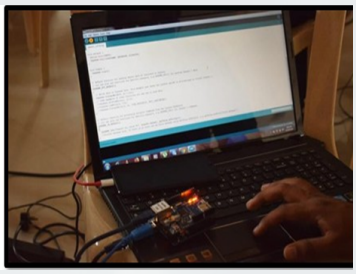
"EMBEDDED SYSTEM & IOT"





The Department of E&CE, in association with IETE has conducted 3 days workshop on "Embedded System & IoT" for 6th semester students from 5th May to 7th May 2022.
The resource person was Mr. Sharan Kumar, Associate Professor, HKES SLNCE, Raichur.

Workshop on,
"SOFT SKILLS TRAINING"


The Department of E&CE, in association with IETE has conducted Technical talk on "Soft Skills Training" for 4th semester students of ECE on 18th June 2022. The resource person was Mr. Sanjay Hebbani Training facilitator, Genesis Training Bengaluru.

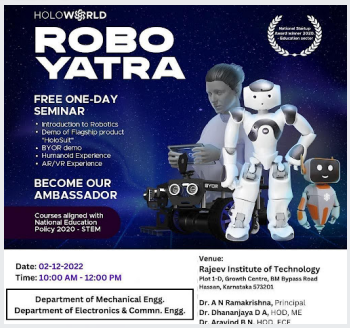
Technical Talk on,
"INTERVIEW HACK"






Department of E&CE, in association with IETE, has conducted a Technical Talk on "Interview Hack" for students of ECE on 23rd July 2022. The resource person was Mr. Harshih D, Unisys, Bangalore.

Technical Talk on,
"ROBO YATRA"





Department of E&CE, in association with IETE, has conducted a Technical Talk on "Robo Yatra" for students of ECE on 2nd December 2022. The resource person was Mr. Harshavardana Kikkeri , CEO, Holo World Technologies, Mysore.

Invited Talk on,

"Professional Ethics & its Importance"

Department of E&CE, in association with IETE, has conducted a Invited Talk on **"Professional Ethics & its Importance"** for 4th and 6th Semester students of ECE on 7th December 2022. The resource person was **Dr. Ramesha M, Assistant Professor, GITAM University, Bangalore.**



FDP ATTENDED BY FACULTY

- Dr. Aravind B N, Mr. Ravi L S and M.r Rohith P have attended Five Days Faculty Development Program on "Next Generation Wireless Networks for Autonomous Intelligent Communication" Organized by Department of Electronics and Communication Engineering Sri Venkateshwara College of Engineering, Bengaluru from 26th December to 30th December 2022.
- Mr. Ravi L S, Mrs. Manasa A, Mrs Lokeswari H S, Mr. Viswanath B R and Mr. Rohith P have attended Microsoft India & SAP India led Faculty Development Program on "Artificial Intelligence" under TechSaksham Program from "19th Dec. 2022 – 23rd Dec. 2022.
- Mrs Lokeswari H S has attended "Advances in wireless & antenna technology", Conducted by Department of Electronics and Communication Engineering, Dr. M S Sheshagiri college of engineering and technology, KLE university, Belagavi from 7th November to 12th November 2022.
- Dr. Aravind B N , Mr. Ravi L S and Mrs. Ambika K have attended Three days Faculty Development Program on "NBA ACCREDITATION PROCESS" Organized by Rajeev Institute of Technology, Hassan From 23rd to 25th June, 2022.
- Mr. Ravi L S has attended in a Three days "Workshop on Cadence Virtuoso organized by the Department of Electronics and Communication Engineering, in association with Entuple Technologies ,B.G.S Institute of Technology, B.G. Nagara from 22nd to 24th June, 2022.
- Dr. Aravind B N has attended Five days international online FDP on "Advanced applications of robotics and IOT", Department of Electronics and Communication Engineering, Atria College of Engineering, Bengaluru from 29th March to 4th April, 2022.

SWAYAM COURSE

- Mr. Rohith P successfully completed the course " Research Ethics"
- Dr. Aravind B N successfully completed the course " Effective Engineeering Teaching in Practice"

AICTE Activity

As a part of AICTE Activity, 5th sem students have visited Morarji Desai Residential school, Basthihalli, Holenarshipura, Hassan. And created social awareness among the school students.







As a part of AICTE Activity, 5th sem students have visited Kamadhenu old age home,Hassan. And created digital banking awareness among the community.







Technology Quotes



Sinchana M K
6th Semester

1.The advance of technology is based on making it fit in so that you don't really even notice it, so its part of everyday life. - Bill Gates

2.Technology is anything that wasn't around when you were born. - Alan Kay

3.The science of today is the technology of tomorrow. - Edward Teller

4.The Internet is becoming the town square for the global village of tomorrow. - Bill Gates

5.It has become appallingly obvious that our technology has exceeded our humanity.; - Albert Einstein

6.The real danger is not that computers will begin to think like men, but that men will begin to think like computers. - Sydney J. Harris

7.The web as I envisaged it, we have not seen it yet. The future is still so much bigger than the past. - Tim Berners-Lee

8.The best way to predict the future is to invent it. - Alan Kay

9.Technology is a useful servant but a dangerous master. - Christian Lous Lange

10.We are stuck with technology when what we really want is just stuff that works. - Douglas Adams

Blockchain Technology



Harsha H S
6th Semester

On the blockchain, data is kept in blocks that are connected to each other and to previous and subsequent blocks. As a result, a chain of blocks is created; hence, the term "blockchain." Every block has data, a timestamp, and a cryptographic hash of the block before it. Because any modification to a block would alter its hash and render the entire chain invalid, it is exceedingly difficult to tamper with the data on the blockchain.

The blockchain offers the following advantages:

Security: Because blockchain is tamper-proof and decentralized, it is extremely secure.

Transparency: Every transaction on the blockchain is open to the public and visible to anyone.

Efficiency: Blockchain can assist in cutting expenses and streamlining procedures

Trust: Blockchain offers a transparent and safe means of tracking transactions, which can contribute to the development of trust between parties.

Blockchain also faces challenges which needs to be addressed in near future

Scalability: Growing a blockchain can be costly and time-consuming Regulation: The specifics of blockchain regulation remain largely unknown.

Energy consumption: A lot of energy is used by some blockchains, including Bitcoin.

ART GALLERY



Syed Lukhman
1st year



Pradan B M
1st year



Tejashwini
3rd year



Anvitha David
2nd year

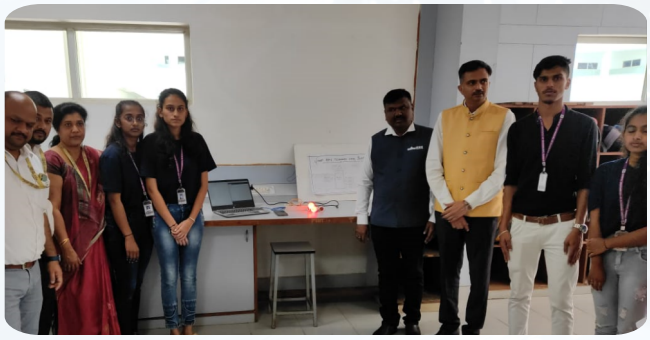
STUDENT ACHIVEMENTS

Mr. Bharath R has participated in Six Days Technical Workshop held on **25th to 30th May 2022** at **Indian Institute of Embedded Systems (IIES) Bengaluru.**

Ms. Monisha B V, Ms. Harshitha M P, Ms. Sahana P has participated in VTU Central Karnataka Zone Women Throwball Tournament 2021-22 held on **07th to 08th June 2022 at KIT, Tiptur.**

Mr. Asim Mohammed Delvi has participated in **Hackathon Challenge** held on **11th -12th June 2022 at iNeuron Bengaluru.**

Swagath B J, Nisarga N R, Aishwarya T M, Hamsa D and Nesera H S, Harsha, Akash Lankesh C A, students of 5th sem, have participated in **Project Presentation AIKYA-2022** held on **December 12th, 2022** at **East Point College of Engineering and Technology, Bengaluru, Karnataka**





Ms.Rashmi B P has participated in Internship on Python Full Stack development and miniproject on **“BAR PLOT IN MATPLOTLIB”**, held on **21st August 2022 to 19th sep 2022** at **Drops solutions Bengaluru 560095, Karnataka.**

Asim Mohammed Delvi, 7th Semester student, won **1st prize in the Hackathon challenge** held at **Malnad College of Engineering, Hassan** on **9th - 12th December 2022.**

STUDENT ACHIVEMENTS

Kavya M, Ruchitha G N, Swathi K Y and Sumithra Bai has participated in **TECH AVISHKAR 24-hour Hackathon** held on 21st and 22nd Dec 2022 at **IEEE Mysuru subsection, ATMECE, Mysuru.**

Nesara H S, Harsha, Akash, Lankesh C A has participated in **TECH AVISHKAR 24-hour Hackathon** held on 21st and 22nd Dec 2022 at **IEEE Mysuru subsection, ATMECE, Mysuru.**





Hamsa D and Aishwarya, students of 5th Semester have won **2nd place** in the competition talk on **technical entrepreneurship** held at **East Point College of Engineering and Technology**, Bengaluru, Karnataka on **December 12th, 2022.**

Samrudh Sujai M, Mohammed Tayaib Ayubi has participated in **VTU Central Zone Men Football Tournament 2022-2023** held on 5th-6th Dec 2022 at **Shivamoga.**

Placements

SL. No	NAME	USN	COMPANY
1.	RASHMIT S	4RA18EC032	Capgemini
2.	SANJANA C	4RA18EC050	Capgemini
3.	BASEERA KHATOON	4RA18EC007	EY
4.	MONISHA B V	4RA18EC025	EY
5.	VIJAY M D	4RA18EC049	Wipro
6.	SARVAR KHAN	4RA18EC039	Cognizant
7.	LEKHA K L	4RA18EC021	Cognizant
8.	RIDA FATHIMA	4RA18EC034	Cognizant
9.	RAHUL A	4RA18EC031	Cognizant
10.	POOJA M	4RA18EC029	Zensar Technologies
11	CHAITHRA S G	4RA18EC008	Infosys
12	ANJALI N S	4RA18EC005	Infosys
13	SPANDANA1	4RA18EC044	Infosys
14	SAHANA K D	4RA18EC036	Teachnook
15	ANJALI B R	4RA18EC003	Technologics Global Pvt Ltd

SL. No	NAME	USN	COMPANY
16	4RA18EC008	CHAITRA S G	Teachnook
17	4RA18EC047	UMME HANIE	Teachnook
18	4RA18EC011	DIVYA H D	Teachnook
19	4RA18EC043	SONY B R	Bosch
20	4RA18EC017	HEMASHREE Y R	Anmerkung
21	4RA18EC028	PARSHWANATH JAIN H D	Elcamino
22	4RA18EC045	THARA M C	Microland
23	4RA18EC036	SAHANA KD	Skolar
24	4RA18EC006	ANUSHA P	Upskillz
25	4RA18EC033	REVATHI R P	Upskillz

Editorial Team

Faculty Editors



Mrs. Ambika K
Assistant Professor, Department of Electronics & Communication Engineering



Mr. Rohith P.
Assistant Professor, Department of Electronics & Communication Engineering

Student Editors



Mr. Varun M. S.
5th Sem
Department of Electronics & Communication Engineering



Ms. Harshitha M.P
7th Sem
Department of Electronics & Communication Engineering



Mr. Bharath R
5th Sem
Department of Electronics & Communication Engineering