



**JYOTHY**  
INSTITUTE OF TECHNOLOGY

**VOL 1, ISSUE 1**  
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# TECH HERALD

REFLECTIONS & MILESTONES – A BIENNIAL MAGAZINE



**PRESENTED BY:**

**DEPARTMENT OF  
ELECTRONICS AND  
COMMUNICATION  
ENGINEERING**

## *From the Desk of Principal*



I am excited to share the news of the launch of the first edition of our biannual Technical Magazine crafted by the Department of Electronics and Communication in coordination with IEEE student branch. This edition serves as a testament to the department's unwavering dedication to academic excellence and innovation. Within these pages, you will discover insightful perspectives, showcasing the remarkable achievements and advancements of our students and faculties. I commend the IEEE student branch and the department of Electronics and Communication for their tireless efforts in producing these insightful publications. I encourage everyone in our community to delve into the enriching content and celebrate the collaborative spirit that defines our institute. Together, let us continue to inspire and be inspired by the pursuit of knowledge.

**Dr. K Gopalakrishna**  
**Principal, JIT**

## *HOD's Message*



I am happy that the Department of Electronics and Communication is coming out with the first edition of Biannual Technical Magazine, which gives comprehensive information of activities that have happened in a semester. I strongly believe this magazine paves way to record and promote the activities in the related fields of our department. I appreciate the efforts of our students and faculty members who have taken keen interest in shaping this magazine. I congratulate and wish them all the best.

I wish all the students and faculties of the department all success.

**Dr. K Chandrasekhar**  
**Professor and Head**  
**Senior IEEE Member**

## *About the Department*

The Department of Electronics and Communication Engineering (ECE) was established in 2011, offering an undergraduate program with an initial intake of 120 students. Known for its strong emphasis on research and teaching, the department boasts a unit of excellence dedicated to imparting knowledge in the field of Electronics and Communication. It is equipped with a well-established infrastructure, providing all the necessary tools and equipment for academic and research pursuits. Moreover, the department benefits from research facilities sponsored by esteemed agencies like KSCST, VGST, DST, and SAC-ISRO.

Department clubs, essential components of any educational institution, offer a dynamic nexus for students to deepen their academic engagement and personal growth. Beyond the classroom, they provide practical skill development, networking opportunities with professors and industry experts, and a supportive community where friendships are forged, and challenges are overcome. The Department of Electronics and Communication proudly hosts the e-Yantra Club, while also playing a pivotal role in the interdisciplinary IOT Club. Additionally, the department is an active participant in IEEE, a renowned global organization, further solidifying its commitment to advancing technology and fostering collaborations between academia and industry.

## *Vision*

To be a department of excellence at a global level in Electronics and Communication Engineering education, incorporating Research & Innovation and leadership training components.

## *Mission*

- **M1:** Strive to provide state of Art infrastructure in classrooms and laboratories.
- **M2:** Enable all-round development with individual attention and innovative teaching learning methodology.
- **M3:** Impart leadership qualities into the students by exposing them to industry and research in the global Electronics and Communication Engineering domain.

### ***Program Educational Objectives (PEO's)***

- **PEO1:** Graduates of Electronics & Communication Engineering will be able to utilize mathematics, science, engineering fundamentals, theoretical as well as laboratory-based experiences to identify, formulate & solve engineering problems and succeed in advanced engineering or other fields.
- **PEO2:** Graduates of Electronics & Communication Engineering will succeed in entry-level engineering positions in VLSI, Communication and Fabrication industries in regional, national, or global industries.
- **PEO3:** Graduates of Electronics & Communication Engineering will be prepared to communicate and work effectively on individual & team based engineering projects while practicing the ethics of their profession consistent with a sense of social responsibility.
- **PEO4:** Graduates of Electronics & Communication Engineering will be equipped to recognize the importance of, and have the skills for, continuous learning to become experts in their domain and enhance their professional attributes.

### ***Program Specific Outcomes (PSO's)***

- **PSO1:** Explore emerging technologies in the field of Electronics and Communication Engineering using the knowledge and skills gained.
- **PSO2:** Apply techniques in different domains to create innovative products and services in the Communication, VLSI, DSP, and Networking.
- **PSO3:** Work on various platforms as an individual/team member to develop useful and safe circuits, PCB, Power Management Systems and Automation for the society and nation.

### ***About IEEE and SPS***

IEEE, the Institute of Electrical and Electronics Engineers, has been a cornerstone of technological advancement since 1884, uniting professionals, researchers, and educators worldwide in fields like electrical engineering and computer science. Through its diverse societies and technical committees, IEEE facilitates collaboration, sets global standards, and fosters innovation across disciplines such as communication, robotics, and energy.

The Signal Processing Society (SPS) is dedicated to advancing the theory and practice of signal processing, essential for analyzing, modifying, and interpreting signals like sound, images, and data. Members from diverse fields such as engineering, mathematics, and computer science collaborate to develop cutting-edge techniques and technologies. Through conferences, workshops, and publications, SPS promotes knowledge sharing and fosters innovation in fields ranging from medical imaging to communication systems and data analysis, shaping transformative advancements that enrich our daily lives.

### ***Vision of IEEE SPS Student Branch***

To inspire and empower the next generation of engineers and technologists through innovation, collaboration, and leadership in signal processing and related fields.

### ***Mission of IEEE SPS Student Branch***

**Education and Skill Development:** Provide educational workshops and hands-on experiences to enhance members' proficiency in related technologies.

**Community Engagement:** Organize outreach programs and seminars to demonstrate the societal impact.

**Networking and Collaboration:** Facilitate connections with industry professionals, researchers, and other IEEE chapters to promote collaboration and knowledge exchange.

### ***Faculty Coordinators***

#### **IEEE-JIT Senior Member Dr. K Chandrasekhar**

IEEE Senior Member is a prestigious designation recognizing significant professional achievements in technology fields. It entails rigorous evaluation of contributions, technical proficiency, and leadership within IEEE. Senior Members mentor emerging professionals, contribute to disciplinary advancement, and embody a commitment to excellence and impactful global technical leadership.







## IEEE-JIT Branch Counselor Dr. Ashabharathi S



A Branch Counselor in IEEE, usually a faculty member, acts as a liaison between the student branch and the IEEE section. She guides and support student members in organizing activities, events, and engaging with IEEE initiatives. Branch Counselors facilitate communication, assist with administrative tasks, mentor student leaders, and ensure alignment with IEEE's objectives, crucially enhancing the student branch experience.



### *Student Coordinators - IEEE and SPS*

**Chairperson:** The Chairperson of an IEEE student branch oversees branch activities, leading the executive committee to ensure effective communication and collaboration. They organize events, workshops, and initiatives to foster a vibrant technical community, representing the branch in interactions with faculty, professionals, and IEEE sections. This role requires strong organizational skills, vision, and a dedication to promoting technical knowledge and professional development among members, contributing significantly to the branch's growth and success.



Designation	Name of the Student	
IEEE-JIT Chairperson	Yashwanth Krishna L 3rd year, ECE	
IEEE-SPS Chairperson	Tejas B 3rd year, ECE	

**Vice Chair:** The Vice Chairperson of an IEEE student branch supports the Chairperson in planning and executing activities, often leading in their absence and assisting with strategic decisions. They coordinate events, foster team cohesion, and ensure smooth branch operations by engaging members and

facilitating communication. The Vice Chairperson plays a crucial role in leadership development and enhancing the IEEE student branch experience, promoting technical and professional growth among members.



Designation	Name of the Student	
IEEE-JIT Vice Chair	Tanishaa Sastry 3rd year, ECE	
IEEE-SPS Vice Chair	Harshitha N 3rd year, ECE	

**Secretary:** The Secretary of an IEEE student branch manages documentation, meeting minutes, and communications, ensuring smooth information flow and record-keeping. They collaborate with the executive committee to organize events, track membership, and support branch operations. Detail-oriented and organized, the Secretary plays a vital role in maintaining transparency, preserving institutional memory, and enhancing the efficiency of the IEEE student branch.



Designation	Name of the Student	
IEEE-JIT Secretary	Kushadh A 3rd year, ECE	
IEEE-SPS Secretary	Sonika M 3rd year, ECE	

**Treasurer:** The Treasurer of an IEEE student branch oversees budget management, expenses, and financial transactions, ensuring responsible practices and supporting event planning. They collaborate with the executive committee to create budgets, track expenditures, and report updates to members, playing a

crucial role in maintaining financial sustainability. Their efforts enable successful execution of initiatives, enhancing the IEEE student branch experience.

Designation	Name of the Student	
IEEE-JIT Treasurer	Yeshwanth BS 3rd year, ECE	
IEEE-SPS Treasurer	Dhanyashree 3rd year, ECE	



**Web Master:** The Webmaster of an IEEE student branch manages the branch's online presence and technological infrastructure, designing and maintaining the website for effective communication and information dissemination. They ensure easy access to resources, event details, and updates, and may oversee social media platforms and integrate digital tools. A tech-savvy role, the Webmaster enhances visibility, fosters engagement, and connects members within the IEEE student branch through innovative online strategies.

Designation	Name of the Student	
IEEE-JIT Web Master	Darshan P 3rd year, ECE	
IEEE-SPS Web Master	Anirudh 2nd year, ECE	






**Membership Development Chair:** The Membership Development Chair of an IEEE student branch focuses on attracting and retaining members through recruitment events, workshops, and networking opportunities. They collaborate with the executive committee to create initiatives catering to diverse interests, fostering community and professional growth. This role emphasizes effective












communication, creativity, and creating a welcoming environment to encourage active participation in IEEE activities.

Designation	Name of the Student	
IEEE-JIT Membership Development Chair	V Venkatesh 3rd year, ECE	
IEEE-SPS Membership Development Chair	Rohith P 2nd year, ECE	


### *Faculty List*

Sl.No	Name of the Faculty	Qualification and Designation	
1	Dr. K Chandrasekhar	B.E, M.E, PhD Professor & Head	
2	Dr. Geethapriya M	B.E, M.Tech, PhD Professor	
3	Dr. H B M Ajjaiah	B.E, M.Tech, PhD Associate Professor	
4	Dr. Chethana K	B.E, M.Tech, PhD Associate Professor	
5	Dr. Asha Bharathi S	B.E, M.Tech, PhD Associate Professor	


6	Dr. Tarun Parashar	B.E, M.Tech, PhD Associate Professor	
7	Dr. Hamsa S	B.E, M.Tech, PhD Associate Professor	
8	Mr. Chandrashekar B M	B.E, M.E, [PhD] Assistant Professor	
9	Ms. Sumangala Gejje	B.E, M.Tech Assistant Professor	
10	Mr. Nagesh Kumar D N	B.E, M.Tech,[PhD] Assistant Professor	
11	Mr. Madhukar M	B.E, MSc -Tech, [PhD] Assistant Professor	
12	Mrs. Smita Agarwal	B.E, M.Tech, [PhD] Assistant Professor	
13	Mr. Deepak V Ingale	B.E, M.Tech, Assistant Professor	
14	Mrs. Srilakshmi R	B.E, M.Tech, [PhD] Assistant Professor	







15	Mr. Rajesh Sudi	B.E, M.Tech Assistant Professor	
16	Mrs. Krithika P J	B.E, M.Tech Assistant Professor	
17	Mrs. Bhargavi N G	B.E, M.Tech Assistant Professor	
18	Mr. Shivaraj A	B.E, M.E Assistant Professor	
19	Mr. Prasanna Venkanna Bhat	B.E, M.Tech Assistant Professor	

### *Visiting Professor*

Sl.No	Name of the Faculty	Designation	
1	Prof. N Narasimha Swamy	B.E, M.Tech, Professor	

### *Staff list*

Sl.No	Name of the Staff	Designation	
1	Mr. Goutham C	B.E, Foremen	

2	Mr. Shashi Kumar S V	Diploma, HDSE, M.A Senior Instructor	
3	Mrs. Ranjitha Bhat	B.E, Senior Instructor	
4	Mr. Prabu S	Diploma, BCA(B.E) Senior Instructor	
4	Mrs. Chandana T V	B.E, Instructor	
5	Ms. Medha Chowdhary M	B.E, Instructor	
6	Mrs. Manjula K M	B.Com Second Divisional Clerk	

### ***IEEE Events***

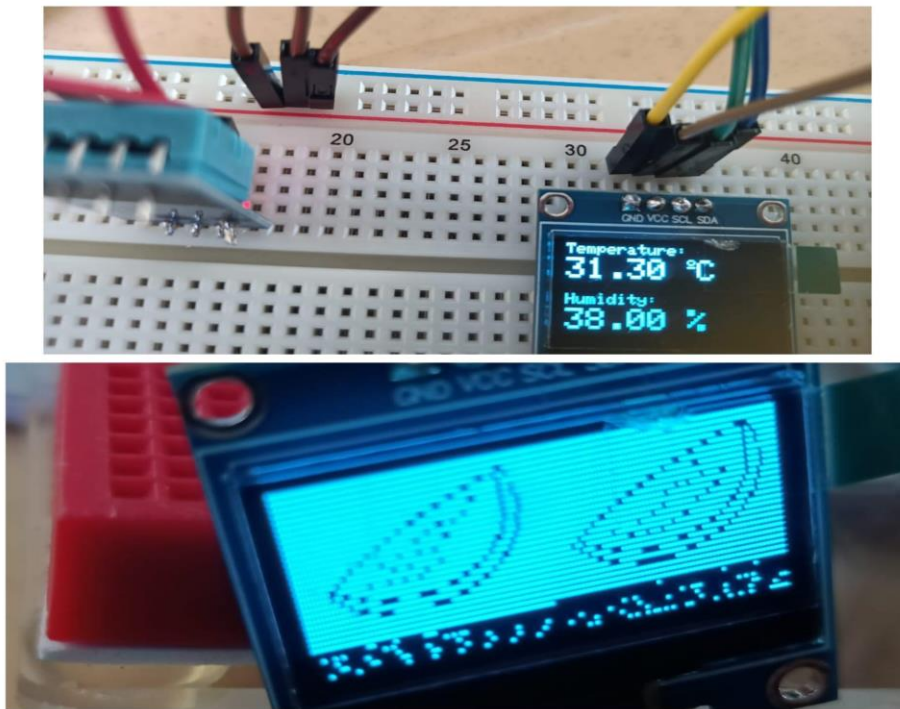
***Introduction of Firebird V Robot for Embedded System:*** In collaboration with the IEEE JIT Student Branch and e-Yantra, the Department of Electronics and Communication Engineering arranged a ten-day robotics workshop in June. The workshop was conducted in two separate slots, one from June 12th to 16th, 2023, and the other from June 19th to 23rd, 2023. It was tailored specifically for second- year students in the Electronics and Communication Engineering program. The primary

objective of the workshop was to offer participants a practical, hands-on exposure to the world of robotics and programming, with a particular focus on mastering embedded C programming and navigating the intricacies of the Firebird V robot.



**Skill development program:** During February 20th-23rd, 2023, department of Electronics and Communication Engineering in coordination with CIIRC orchestrated a comprehensive Skill Enhancement Program encompassing PCB design using KiCad software, supported with soldering techniques, and Android app development. The program featured the expertise of resource persons, namely Mr. Deepak V Ingale, Mr. Keshav Goutham, and Mr. Goutham, who guided and facilitated the learning process.





***Project Exhibition:*** The Department of Electronics and Communication Engineering, in collaboration with the IEEE JIT Student Branch and IEEE Bangalore section, hosted a Project Exhibition on May 9th, 2023. During this event, graduating students from the final year had the opportunity to showcase, present, and demonstrate their projects, receiving evaluations from an external panel of jurors. The esteemed panel included Dr. Rajini V Honnunar, a Professor at RNSIT, Bengaluru, and Mr. Prabrit Bandyopadhyay, a Hardware Engineer from the R&D department at Tenexer Technologies, Bengaluru.

Projects were assessed based on their objectives, societal significance, and the novelty of their approach. Among the 14 projects presented, the top three were recognized and awarded to acknowledge and celebrate the students' skills, innovation, and creativity. Importantly, the exhibition was open to students from all semesters and across various academic disciplines.





***Skill Internship Program:*** Jyothy Institute of Technology, in partnership with TEQUED Labs, conducted a highly successful IoT Fundamentals Skill Internship Program for 4th-semester students across disciplines in the month of May. The program aimed to impart essential IoT knowledge and practical skills using industry tools to address real-world problems. Among the 83 participating students, 50 were from Electronics and Communication. TEQUED Labs expertly facilitated the program, monitoring student progress and awarding the best interns of the season, with three winners from the Electronics and Communication department.



***Application of Firebird V Robot for Embedded System:*** The Electronics and Communication Engineering Department, in collaboration with IEEE JIT Student Branch and e-Yantra, hosted a ten-day robotics workshop for 6th semester students. The workshop explored Firebird V robots in embedded systems, focusing on their hardware, programming, and practical applications like sensor integration and autonomous navigation. It aimed to equip students with essential skills in designing and implementing advanced embedded systems using Firebird V robots.





**Workshop on PCB Design:** The Department of Electronics and Communication Engineering, in partnership with the IEEE JIT Student Branch and SPS JIT Student Branch, conducted a two-day PCB workshop on June 14th and 15th, 2023, at Jyothy Institute of Technology, Bangalore. This collaborative effort also involved CIIRC and was designed for students in the 6th semester of the Electronics & Communication Engineering program. The workshop was led by Mr. Deepak V Ingale, an assistant professor at CIIRC, JIT, and Mr. Keshav Gowtham, assistant professor at CIIRC.



**Technophilia – IEEE CSE Chapter Inauguration:** The IEEE-CSE Chapter "Technophilia" was launched under the auspices of the ECE department's IEEE student chapter on 24th June, 2023. This collaborative effort with the CSE department marked an interdisciplinary milestone, fostering innovation and knowledge dissemination in computer science and engineering. Led by dedicated faculty and visionary leadership, the chapter promises an exciting journey of technological exploration and academic excellence.



## *Student Achievements*

### *Best Outgoing Students 2023:*

**Raghavendra K R** received a distinguished honor as he was nominated as the best outgoing student for the batch of 2023. In recognition of his outstanding academic achievements and contributions, he was awarded the prestigious **silver ring** by the Institution.



### *Best Outgoing Students 2023:*

**Rakshitha C** received a prestigious accolade as she was nominated as the best outgoing student for the batch of 2023. In acknowledgment of her exceptional academic achievements and significant contributions, the institution bestowed upon her the esteemed **silver ring**.



**Intra College Competition:** Jyothy Institute of Technology's World Language Club hosted an engaging pop culture quiz tournament with the objective of nurturing curiosity about foreign cultures and languages. Among the participants were our first-year students, namely **Raghavendra R, Swathi Bhat, Chirag Buddhivanth, and Chitraksh**, who not only took part enthusiastically but also **clinched a 1000 INR cash prize** for their victory.





**Dhanush S** : Dhanush, a final-year student in the Department of Electronics and Communication Engineering, secured the Best Paper Award at the VIT International Conference. His winning paper, titled "Supraglacial Debris Cover for Ny-Ålesund Using Sentinel-2 Data," showcased his research and academic prowess, marking a remarkable achievement in his academic journey.



***SAE Aero-Design Series East Competition 2023:*** The SAE Aero-Design Series East Competition 2023, organized by SAE International, occurred between March 10th and 12th, 2023, in Lakeland, Florida. Team Garuthmaan, with seven members, represented their club and college as ambassadors. Notably, Swathi Bhat, Chandana, and Prajwal from the ECE department were part of the team. In terms of achievements, the team ranked 6th in the design report category and 9th overall. This competition provides practical engineering challenges for undergraduate and graduate students, mirroring real-world scenarios. Around 50 teams participated, competing for a single \$1,000 prize. This event showcased the participants' talent and professionalism.



**Project Exhibition Winners:** in association with IEEE JIT student branch and IEEE Bangalore section, for final year students. Among 14 projects, 3 best projects were chosen and awarded.

Position	Project Title	Name of the Guide	Name of the Students
1 <sup>st</sup>	Mobile application-based waste management using tensor flow and DNN model	Mr.Deepak V Ingale	Arpana S Harini B G Gowthami P Jain Nikitha M G
2 <sup>nd</sup>	E-Eye using Raspberry pi for visually impaired people	Mr..Rajesh Sudi	Akshatha M Meghana S Srivatsa Datta C Sushma Bharadwaj
3 <sup>rd</sup>	Lung capacity estimation using acoustic signals	Dr.K.Chandrashekhar	Chandana B S Prajwal V Ram Kumar A R Sameer Srinivas





**Inter College Mini Project Exhibition:** DSATM generously extended invitations to numerous engineering colleges throughout Bangalore, and Jyothy Institute of Technology wholeheartedly embraced this opportunity. Demonstrating their enthusiasm, our institution was proudly represented by four teams in the competition. It is particularly noteworthy that out of the 40 competing teams, our college students secured the third place in this highly competitive event, showcasing their remarkable talent and dedication.

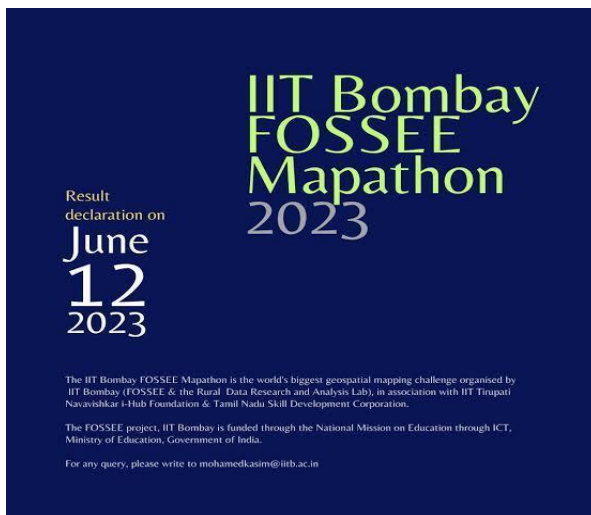


In the 6th semester of their Electronics and Communication program, **Anurag M, Chaithanya M B, Shivank V, and Hitesh V B** showcased their exceptional skills by participating in the inter-college mini-project exhibition held at DSATM in Bangalore. Their remarkable mini project not only impressed the audience but also secured a well-deserved victory for them in the competition.



**IOT Best Interns:** Rohith P, Saieshwar VR, and Abhijay R Bhat, who are currently in their **4th semester** studying in the Department of ECE, have been honored as the **top interns** of the season by TEQUED Labs. This accolade

underscores their remarkable skills, talents, and capabilities, particularly in their creative project endeavors aimed at addressing various societal issues. The event **was jointly organized by the IoT club in collaboration with TEQUED Labs.**



***IIT Bombay FOSSEE mapathon 2023:*** In May 2023, the ECE department's students enthusiastically joined the nationwide IIT Bombay FOSSEE Mapathon competition, where there were more than 2000 participants from across the country. Our students **Yashwanth krishna L and Yeshwanth B S** stood out as notable participants in the event.

### ***IOT Project Expo Winners***

Position	Project Title	Theme	Name of the Students
1 <sup>st</sup>	IOT in Industry Automation	Industry Automation	Rishyanth SM, Shankarshana V, Harshitha M
3 <sup>rd</sup>	Automated Forest Fire Detection	Environment monitoring	Harith CM Prajwal S



### *Faculty Achievements*



Dr. K Chandrasekhar, Professor and Head of Department, in the Department of Electronics and Communication Engineering serves as a **reviewer** for renowned **international conferences** and publishers like **Springer and Scopus**.

Dr. Geethapriya M, Professor, department of Electronics and Communication Engineering has embarked on an **Antarctic expedition funded by the Government of India**. She has made contributions to the domain of image processing, with a portfolio boasting around 18 published journals. Additionally, she plays an **active role in research projects funded by prestigious organizations like ISRO, the Ministry of Earth Science, and CSR**.



Dr. Ajjaiah H.B.M an Associate Professor in the Department of Electronics and Communication Engineering **filed a patent titled "Development of a Device for Detecting Dental Disorders Using Mask-RCNN and Image Processing."** during the month of March 2023.

Dr. Asha Bharathi S, Associate Professor, Department of Electronics and Communication Engineering, contributes as a **reviewer** for various international conferences and publishers such as **Springer and Scopus**.







Dr. Hamsa S, Associate professor in department of Electronics and Communication Engineering serves as a **reviewer** for renowned international conferences and publishers like **Springer and Scopus**.

Mr. Nagesh Kumar, Assistant Professor in the Department of Electronics and Communication Engineering has served as a **resource person** for various **skill development programs and workshops**. He has also taken the initiative to conduct workshops on the intricacies of Firebird Robot using Embedded systems, imparting vital practical knowledge in this field.



Mr. Madhukar M, an Assistant Professor in the department of Electronics and Communication Engineering, is a resource **person** in numerous **skill development programs and workshops**, benefiting both students and fellow faculty members.

Mr. Deepak V Ingale, an Assistant Professor in the Electronics and Communication Engineering Department, plans and executes workshops covering a wide array of topics, including PCB design, Embedded Systems, IoT, and Android app development. Through these workshops, he imparts practical knowledge, elevating the comprehension of these fields among his peers and students.



### *Student paper publications*

Student Name	Research Article Name	Indexing	Date of Publish
Raghavendra K. R	Cryo-facies Mapping of Karakoram and Himalayan Glaciers Using Multispectral Data, , Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 329-337, doi. 10.1007/978-981-19-8338-2_27	Springer, Scopus	May 2023
Raghavendra K. R, Mahesh, B	Land Subsidence Monitoring of Bengaluru: An Application of Image Processing. 10.1007/978-981-19-9819-5_35 (Springer-Scopus)	Springer, Scopus	April 2023

A Sowjanya	Crop monitoring of Agricultural land in Chikkaballapura District of Karnataka Using HSR Data, Futuristic Communication and Network Technologies, pp 437-449, doi 10.1007/978-981-19-8338-2_36	Springer	May 2023
S. Meghana	Spatial and Temporal Analysis of Water Bodies in Bengaluru Urban using GIS and Satellite Image Processing, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 289-299	Springer, Scopus	May 2023
Sriram S	The Contemporary State of Glacial Lakes in Chandra Basin, Western Himalayas: A Case Study in 2020, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 519-526	Springer, Scopus	May 2023
Mahesh B	One-Dimensional flood Modeling of River Kaveri Using HEC-RAS, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 495-501	Springer, Scopus	May 2023
Shashank B	Monitoring of Melting Glaciers of Ny-Alesund, Svalbard, Arctic Using Space-Based Inputs, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp.381-390	Springer, Scopus	May 2023
Meghana S	Spatial and Temporal Analysis of Water Bodies in Bengaluru Urban Using GIS and Satellite Image Processing, 2023, 966 LNEE, pp. 289-299	Springer, Scopus	May 2023

### *Placements*

Sl.No	Student Name	USN	Company
1	Abhiram H S Avadhani	1JT19EC001	BYJU'S
2	Abhishek M	1JT19EC002	TechM
3	Adheesha S U	1JT19EC003	Prerana

4	Akshatha M	1JT19EC004	TechM
5	Anushree N	1JT19EC005	TechM
6	B G Harini	1JT19EC007	TechM
7	Chandan Kumar U	1JT19EC008	Cognizant GenC
8	Dhanush S	1JT19EC010	Tech Mahindra Cerium system
9	Krutharth M	1JT19EC016	BYJU'S /TechM
10	Mahesh B	1JT19EC017	Tech Mahindra Cerium system
11	Mahir Ahmed	1JT19EC019	BYJU'S
12	Manoj P Hegde	1JT19EC020	A3 Technologies
13	Meghana S	1JT19EC022	BYJU'S
14	Nagaraj Ganapati Bhat	1JT19EC023	A3 Technologies
15	Navya P Vernekar	1JT19EC024	Tech Mahindra Cerium system / Cognizant GenC /TCS Ninja /Tata Consultancy LTD
16	Nikshitha S	1JT19EC027	Cognizant GenC
17	Pavan L	1JT19EC029	Cognizant GenC
18	Pradyumna M	1JT19EC030	TechM
19	Raghavendra K R	1JT19EC034	Tech Mahindra Cerium system /A3 Technologies
20	Rakshita C	1JT19EC035	Ciirc
21	Ramkumar A R	1JT19EC037	SLK software / A3 Technologies



22	Sameer Srinivas	1JT19EC041	TechM
23	Sampath M P	1JT19EC042	TechM
24	Sandeep J S	1JT19EC043	Skill camper
25	Sharath P	1JT19EC044	TechM
26	Sinchana H C	1JT19EC047	Techmeridian
27	Sowjanya A	1JT19EC048	Tech Mahindra Cerium system / Cognizant GenC /TechM
28	Sriram S	1JT19EC049	Cognizant GenC
29	Srivatsa Datta C	1JT19EC050	Cognizant GenC
30	Suhas Devadiga	1JT19EC051	Cognizant GenC
31	Vishwas U	1JT19EC054	6D Technologies
32	Yathish G	1JT19EC055	TechM
33	Rochana A Ritti	1JT18EC035	TechM

### ***Toppers of the semester***

Semester	Name and USN	Percentage
8 <sup>th</sup>	1. Mahesh B [1JT19EC017] 2. Raghavendra K R [1JT19EC034] 3. Rakshita C [1JT19EC035]	93.4 % 93.2 % 91.4 %
6 <sup>th</sup>	1. Jaya Agarwal [1JT20EC020] 2. Hitha Dathananda [[1JT20EC018] 3. Advitha Chandrashekara H [[1JT20EC002]	90.9 % 85.9 % 79.1 %
4 <sup>th</sup>	1. Nirmitha D [1JT21EC046] 2. Udhayashri K A [1JT21EC081] 3. Bhumika N Nadig [1JT21EC011]	90.2 % 88.5 % 85.6 %

### ***Paid Internships***

Sl. No	Student Name	USN	Company Name	Amount Paid
1.	Adeesha S U	1JT19EC003	Prerana engineering works	10k per month
2.	Chandan Kumar U	1JT19EC009	Magical MNX	25K for 6 month
3.	Chandana B S	1JT19EC009	Altramatic	10k per month
4.	Keshava Hegde	1JT19EC015	Nbil	10k per month
5.	Manoj P Hegde	1JT19EC020	A3T technologies	8k per month
6.	Navya P Vernekar	1JT19EC024	Magic mux technologies LLP	25k for 6 months
7.	R Suhas	1JT19EC033	Theory desk Pvt ltd	18k per month
8.	Shashank B	1JT19EC045	Cognizant	12k per month
9.	Sowjanya A	1JT19EC048	A3T technologies	8k per month
10.	Sriram S	1JT19EC049	Cognizant	12k per month
11.	Srivatsa Datta C	1JT19EC050	Cognizant	12k per month
12.	Sushma S Bharadwaj	1JT19EC052	Cognizant	12k per month
13.	Vishwas U	1JT19EC054	A3T technologies	8k per month

### ***Faculty Paper Publications***

Name of the Staff	Research Article Name	Indexing	Date of Publish
Dr. Geetha Priya, Dr. Krishnaveni D	Glacier Ice Surface Velocity Using Interferometry, Futuristic Communication and Network Technologies (pp.67-75) doi:10.1007/978-981-19-8338-2_5	Scopus	May 2023

Dr. Asha Bharathi S Dr. Asha Bharathi S	Energy Enhancement and Optimization of WSN using Firefly Algorithm and Deep Learning, 2022 International Conference on Edge Computing and Applications (ICECAA), Tamil Nadu, India, 2022, pp. 1432-1436, doi: 10.1109/ICECAA55415.2022.9936146	Scopus	Dec 2022
	Key Frame Extraction Analysis Based on Optimized Convolution Neural Network (OCNN) using Intensity Feature Selection (IFS), 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2022, pp. 842-847.		Dec 2022
	Hybrid Feature Selection Model for Computer Aided Diagnosis System in Lung Segmentation International Journal of Intelligent Systems and Applications in Engineering, vol 11, (8), pp 517-525, 2023	Scopus	June 2023
Dr. Hamsa S	Micro-strip Patch Antenna for 5G sub 6 GHz Applications, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Bengaluru, India, pp. 616-620, doi: 10.1109/IIHC55949.2022.10060179.	Scopus	March 2023
	COVID-19 Effect on India's Business Utilizing Online, Blockchain, or AI Algorithms, 2023 International Conference on Artificial Intelligence and Smart Communication (AISC), Greater Noida, India, 2023, pp. 442-446, doi: 10.1109/AISC56616.2023.10085658.		April 2023
	The Traffic-Aware Scatter Net Scheduling (TAAS) for Multicast Wireless Protocols, 2023 International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), Ballar, India, 2023, pp. 1-6, doi: 10.1109/ICDCECE57866.2023.10151073.		June 2023
Srilakshmi R	A new strategy for the morphology-controlled synthesis of Ni/Co MOFs for high-performance asymmetric supercapacitors, Journal of Energy Storage, Volume 61, 2023, 106766, ISSN 2352-152X, <a href="https://doi.org/10.1016/j.est.2023.106766">https://doi.org/10.1016/j.est.2023.106766</a> .	Elsevier	Jan 2023
Shivraj A	Lifetime ratio improvement in relay nodes using CWSN for cooperative wireless sensor networks, 2022 3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4), Bangalore, India, 2022, pp. 1-6, doi: 10.1109/C2I456876.2022.10051217.	IEEE	March 2023

***Projects sanctioned under KSCST***

<b>Faculty Name</b>	<b>Project Title</b>	<b>Year of Sanction</b>	<b>Funding Agency</b>	<b>Total Amount Sanctioned</b>	<b>Amount utilized during current year</b>
Dr. Ajjaiah B M	Design and analysis of dental disorder detection system using AI-ML and Image Processing	2022-2023	KSCST	7000	7000
Mrs.Smita Agarwal	FitBrix: An AI enabled activity tracker for aged or physically challenged people	2022-2023	KSCST	6500	6500
Mr.Rajesh Sudi	E-Eye using Raspberry pi for visually impaired people	2022-2023	KSCST	7000	7000

# Department of Electronics and Communication Engineering

## Editorial Board



**Dr. K Chandrasekhar**  
Professor and Head



**Dr. Hamsa S**  
Associate Professor

## Student Editors



**Venkatesh V, 3<sup>rd</sup> year**  
[1JT20EC053]



**Tejas B, 3<sup>rd</sup> year**  
[1JT20EC052]



**Udhayashree K, 2<sup>nd</sup> year**  
[1JT21EC081]



**Shreya L, 1<sup>st</sup> year**  
[1JT22EC092]



**JYOTHY**  
INSTITUTE OF TECHNOLOGY

**VOL 18**  
**JAN-JUNE 2023**

# VIDYUNMANA

A BIENNIAL NEWS LETTER



**PRESENTED BY:**

**DEPARTMENT OF ELECTRONICS AND  
COMMUNICATION ENGINEERING**



## *From the Desk of Principal*

I am happy that Department of ECE, Jyothy Institute of Technology (JIT), is bringing out a Newsletter biannually. This Newsletter will help to show case the activities that are happening in the department. It also helps in building up teamwork which is very much needed today in the world of competition. It provides a platform for exposing the merits and achievements of the faculty as well as students. This enhances the documentation culture of the institute. This would create an impact in the minds of readers, by way of providing larger visibility and dimension to the department. All credits and thanks go to the dedicated staff and their teamwork.



**Dr. Gopalakrishna K**  
Principal, JIT

## *HOD's Message*



I am happy that the department is coming out with next new edition of Newsletter - Vidyunmana, which gives comprehensive information of non-technical events and activities that has happened in a semester along with showcasing talents in many ways. I strongly believe this Newsletter paves way to record and promote the activities in the related fields of our department. I appreciate the efforts of our students and faculty members who have taken keen interest in shaping this Newsletter. I congratulate and wish them all the best.

I wish all the students and faculties of the department all success.

**Dr. K Chandrasekhar**  
Professor and Head  
Senior IEEE Member

## ***Vision of the Institute***

To be an Institution of Excellence in Engineering education, Innovation and Research and work towards evolving great leaders for the country's future and meeting global needs.

## ***Mission of the Institute***

The Institution aims at providing a vibrant, intellectually and emotionally rich teaching-learning environment with the State of the Art Infrastructure and recognizing and nurturing the potential of each individual to evolve into one's own self and contribute to the welfare of all.

## ***About the Department***

The Department of Electronics and Communication Engineering (ECE) was established in 2011, offering an undergraduate program with an initial intake of 60 students later increased to 120 since 2020. Known for its strong emphasis on research and teaching, the department boasts a unit of excellence dedicated to imparting knowledge in the field of Electronics and Communication. It is equipped with a well-established infrastructure, providing all the necessary tools and equipment for academic and research pursuits. Moreover, the department benefits from research facilities sponsored by esteemed agencies like KSCST, VGST, DST, and SAC-ISRO.

Department clubs, essential components of any educational institution, offer a dynamic nexus for students to deepen their academic engagement and personal growth. Beyond the classroom, they provide practical skill development, networking opportunities with professors and industry experts, and a supportive community where friendships are forged, and challenges are overcome. Department of Electronics and Communication proudly hosts the e-Yantra Club. Additionally, the department is an active participant in IEEE, a renowned global organization, further solidifying its commitment to advancing technology and fostering collaborations between academia and industry.

## ***Vision of the Department***

To be a department of excellence at a global level in Electronics and Communication Engineering education, incorporating Research & Innovation and leadership training components.

## ***Mission of the Department***

- **M1:** Strive to provide state of Art infrastructure in classrooms and laboratories.
- **M2:** Enable all-round development with individual attention and innovative teaching learning methodology.
- **M3:** Impart leadership qualities into the students by exposing them to industry and research in global Electronics and Communication Engineering domain.

## ***Program Educational Objectives (PEO's)***







- **PEO1:** Graduates of Electronics & Communication Engineering will be able to utilize mathematics, science, engineering fundamentals, theoretical as well as laboratory-based experiences to identify, formulate & solve engineering problems and succeed in advanced engineering or other fields.
- **PEO2:** Graduates of Electronics & Communication Engineering will succeed in entry-level engineering positions in VLSI, Communication and Fabrication industries in regional, national, or global industries.
- **PEO3:** Graduates of Electronics & Communication Engineering will be prepared to communicate and work effectively on individual & team based engineering projects while practicing the ethics of their profession consistent with a sense of social responsibility.
- **PEO4:** Graduates of Electronics & Communication Engineering will be equipped to recognize the importance of, and have the skills for, continuous learning to become experts in their domain and enhance their professional attributes.












## ***Program Specific Outcomes (PSO's)***

- **PSO1:** Explore emerging technologies in the field of Electronics and Communication Engineering using the knowledge and skills gained.


- **PSO2:** Apply techniques in different domains to create innovative products and services in the Communication, VLSI, DSP, and Networking.
- **PSO3:** Work on various platforms as an individual/team member to develop useful and safe circuits, PCB, Power Management Systems and Automation for the society and nation.

### *Faculty List*


Sl.No	Name of the Faculty	Qualification and Designation	
1	Dr. K Chandrasekhar	B.E, M.E, PhD Professor & Head	
2	Dr. Geethapriya M	B.E, M.Tech, PhD Professor	
3	Dr. H B M Ajjaiah	B.E, M.Tech, PhD Associate Professor	
4	Dr. Chethana K	B.E, M.Tech, PhD Associate Professor	
5	Dr. Asha Bharathi S	B.E, M.Tech, PhD Associate Professor	
6	Dr. Tarun Parashar	B.E, M.Tech, PhD Associate Professor	
7	Dr. Hamsa S	B.E, M.Tech, PhD Associate Professor	

8	Mr. Chandrashekar B M	B.E, M.E,[PhD] Assistant Professor	
9	Ms. Sumangala Gejje	B.E, M.Tech Assistant Professor	
10	Mr. Nagesh Kumar D N	B.E, M.Tech,[PhD] Assistant Professor	
11	Mr. Madhukar M	B.E, M.Sc - Tech, [PhD] Assistant Professor	
12	Mrs. Smita Agarwal	B.Tech, M.Tech, [PhD] Assistant Professor	
13	Mr. Deepak V Ingale	B.E, M.Tech, Assistant Professor	
14	Mrs. Srilakshmi R	B.E, M.Tech, [PhD] Assistant Professor	
15	Mr. Rajesh Sudi	B.E, M.Tech Assistant Professor	
16	Mrs. Krithika P J	B.E, M.Tech, Assistant Professor	
17	Mrs. Bhargavi N G	B.E, M.Tech, Assistant Professor	
18	Mr. Shivaraj A	B.E, M.E, Assistant Professor	










19	Mr. Prasanna Venkanna Bhat	B.E, M.Tech, Assistant Professor	
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### *Visiting Professor*

Sl.No	Name of the Faculty	Designation	
1	Prof. N Narasimha Swamy	B.E, M.Tech, Professor	

### *Staff list*

Sl.No	Name of the Staff	Designation	
1	Mr. Goutham C	B.E, Foremen	
2	Mr. Shashi Kumar S V	Diploma, HDSE, M.A Senior Instructor	
3	Mrs. Ranjitha Bhat	B.E, Senior Instructor	
4	Mr. Prabu S	Diploma, BCA, (B.E) Senior Instructor	
4	Mrs. Chandana T V	B.E, Instructor	

5	Ms. Medha Chowdhary M	B.E, Instructor	
6	Mrs. Manjula K M	B.Com Second Divisional Clerk	

## *Department Events*

**Republic Day Celebration:** The Republic Day celebration at Jyothy Institute of Technology was graced by distinguished guests from the Jyothy Trust, who hosted the event with great distinction. The gathering included both faculty members and enthusiastic students, all of whom actively participated in the festivities. There was an exciting prize distribution ceremony to honor the winners of the Jyothy Premier League among the students. As the event drew to a close, there was a delightful distribution of sweets. Notably, the students and faculty members of the Electronics and Communication Engineering (ECE) department were actively engaged in the event, showcasing their unwavering zeal and enthusiasm throughout.



**International Women's Day:** March 8<sup>th</sup> is a global day celebrating the social, economic, cultural, and political achievements of women. This day also marks a call to action for accelerating gender parity. Jyothy Institute of Technology to pay tribute to the spirit of being a woman. The event was celebrated on 8th of March 2023 to encourage and motivate all the female staff and students in JIT. The event emphasized on women empowerment, women rights, women health and mainly her role in every aspect of life. The event was motivating, educating and inspiring. The organization also proudly announced the remarkable accomplishments of exceptional women who had achieved the best were being honored, serving as motivation for all aspiring achievers.



**Farewell:** The department farewell was organized for B.Tech outgoing students on 26th May, 2023. It was a quite emotional day for both faculty and students. Students enjoyed every moment sharing their experiences. They sang and danced, smiled and cried, greeted and hugged each other. They shared their experience of their 4 years in the department. The outgoing students also inspired their juniors in many aspects.





**Blood Donation Camp:** The department is delighted to share the success of our recent Blood Donation Camp held at our institution in the month of June. The event witnessed an overwhelming response from our compassionate community members who selflessly came forward to donate blood and save lives. The spirit of camaraderie and the willingness to contribute to a noble cause were evident throughout the camp. The generous contributions made by our donors will undoubtedly make a significant difference in the lives of those in need. We extend our heartfelt gratitude to all the donors and the organizing team for making this initiative a resounding success. The Blood Donation Camp exemplifies our commitment to social responsibility and highlights the power we hold in making a positive impact on society. Let us continue to support such initiatives and come together to create a healthier and happier community.



**Pranathi – A Techno-Cultural Inter Collegiate Fest:** JIT also celebrated its Annual Cultural Fest Pranathi 2023 on 8th and 9th June 2023. The cultural Fest was inaugurated by Sri. Kaviraj, a lyricist of Kannada film industry. On the day one the intercollegiate competitions were held in the morning and afternoon sessions. In the evening the Fashion show and group dance competitions were held. The response was overwhelming. The second day morning several competitions were held. The winners were judged by Juries from industry. On day 2 evening , the ALL OK rapper team performed on stage. More than 2000 students witnessed the concert. Mr. Prajwal Devraj, Cine Actor, Ms. Ragini Dwivedi Cine actor were on stage for a while to enthrall the crowd. The event generated a sponsorship of close to 6 lakh rupees. Few sponsors to mention are Milky Mist, Quantech Origin, SJS, Mitra and Co, Good Earth & so on. The management provided the German Hanger for the event. Apart from many, JIT Fashion team won second place. Students of Electronics and Communication Engineering department rocked the event by being volunteers,

participants, and also grand winners. The students took part in all the cultural events and won exciting prizes and made the department feel proud.



**NCC Activity:** Under the Puneet Sagar Abhiyan initiative, the JIT NCC Unit successfully conducted a combined event on 2nd June 2023, featuring a lake cleaning activity and a poster presentation rally. This event aimed to raise awareness about reducing plastic usage in our community. In this mission, students from the ECE department actively joined forces, contributing their efforts to the lake cleaning activity and participating in the poster presentation rally. Together, they played a crucial role in spreading awareness about the importance of reducing plastic usage.





## Student Achievements

### Best Outgoing Students 2023:



Raghavendra K R received a distinguished honor on farewell bidding which was organized on 26th May 2023 as he was nominated as the best outgoing student for the batch of 2023. In recognition of his outstanding academic achievements and

contributions, he was awarded the prestigious silver ring by the Institution.

**Rakshitha C** received a prestigious accolade as she was nominated as the best outgoing student for the batch of 2023, on farewell bidding which was organized on 26<sup>th</sup> May 2023. In acknowledgment of her exceptional academic achievements and significant contributions, the institution bestowed upon her the esteemed **silver ring**.



**Amrutha B**, VI semester, has been selected for one Karnataka battalion (1 KAR BN), ½ COY, Bangalore A Group from the JIT NCC group. The Department extend warmest congratulations and best wishes for her remarkable accomplishments and growth. The department extends warm congratulations and heartfelt appreciation to the students

for their exceptional achievements and impressive progress. Best wishes for their continued growth and success.



**Inter-College Cultural Competition:** Tejas B, 6th semester, and Yashas M. H, 4th semester students of department of Electronics and Communication, have been enthusiastic participants in the college fashion team. They have notched up remarkable victories in fashion show competitions hosted by different colleges in Bangalore. Their accomplishments encompass a cash prize secured at the SJBIT fashion show event. Additionally, they have clinched enticing **cash prizes in competitions held at DSATM, RVITM, VEMANA IT, and RNSIT**, among others.



**VTU State level Tug of War:** Tejas B and Darshan P, 6th semester in the Electronics and Communication department, proudly represented Jyothy Institute of Technology at the **VTU state level Tug of War** Event organized by VTU. They received appreciation award from the VTU for their representation in sports.



**VTU South Zone Hockey Tournament:** Varadaraj Kota, Pravalika M from 6th sem, and Sudharshan R from 6th sem, all hailing from the Electronics and Communication department, excellently represented our college's hockey team and emerged victorious in the South Zone Hockey Tournament.



**Girls State Level Basketball Tournament:** Sushma Bharadwaj, in her 8th semester and Tejas B, from 6th semester of the Electronics and Communication program, earned a coveted spot on the college **basketball** team. The team represented our institution at the state level basketball tournament hosted by Ambedkar Institute of Technology in Bengaluru. Despite being newcomers to the tournament, the debut team put up a formidable performance and successfully retained their position in the competition through their spirited play.





## ***Student Paper Publications***

<b>Student Name</b>	<b>Research Article Name</b>	<b>Indexing</b>	<b>Date of Publish</b>
Raghavendra K. R	Cryo-facies Mapping of Karakoram and Himalayan Glaciers Using Multispectral Data, , Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 329-337, doi. 10.1007/978-981-19-8338-2_27	Springer, Scopus	May 2023
Raghavendra K. R, Mahesh, B	Land Subsidence Monitoring of Bengaluru: An Application of Image Processing. 10.1007/978-981-19-9819-5_35 (Springer-Scopus	Springer, Scopus	April 2023
A Sowjanya	Crop monitoring of Agricultural land in Chikkaballapura District of Karnataka Using HSR Data, Futuristic Communication and Network Technologies, pp 437-449, doi 10.1007/978-981-19-8338-2_36	Springer	May 2023
S. Meghana	Spatial and Temporal Analysis of Water Bodies in Bengaluru Urban using GIS and Satellite Image Processing, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 289-299	Springer, Scopus	May 2023
Sriram S	The Contemporary State of Glacial Lakes in Chandra Basin, Western Himalayas: A Case Study in 2020, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 519-526	Springer, Scopus	May 2023
Mahesh B	One-Dimensional flood Modeling of River Kaveri Using HEC-RAS, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp. 495-501	Springer, Scopus	May 2023
Shashank B	Monitoring of Melting Glaciers of Ny-Alesund, Svalbard, Arctic Using Space-Based Inputs, Lecture Notes in Electrical Engineering, 2023, 966 LNEE, pp.381-390	Springer, Scopus	May 2023
Meghana S	Spatial and Temporal Analysis of Water Bodies in Bengaluru Urban Using GIS and Satellite Image Processing, 2023, 966 LNEE, pp. 289-299	Springer, Scopus	May 2023

## ***Placements***

<b>Sl. No</b>	<b>Student Name</b>	<b>USN</b>	<b>Company</b>
1	Abhiram H S Avadhani	1JT19EC001	BYJU'S
2	Abhishek M	1JT19EC002	TechM
3	Adheesha S U	1JT19EC003	Prerana
4	Akshatha M	1JT19EC004	TechM
5	Anushree N	1JT19EC005	TechM
6	B G Harini	1JT19EC007	TechM
7	Chandan Kumar U	1JT19EC008	Cognizant GenC

8	Dhanush S	1JT19EC010	Tech Mahindra Cerium system
9	Krutharth M	1JT19EC016	BYJU'S /TechM
10	Mahesh B	1JT19EC017	Tech Mahindra Cerium system
11	Mahir Ahmed	1JT19EC019	BYJU'S
12	Manoj P Hegde	1JT19EC020	A3 Technologies
13	Meghana S	1JT19EC022	BYJU'S
14	Nagaraj Ganapati Bhat	1JT19EC023	A3 Technologies
15	Navya P Vernekar	1JT19EC024	Tech Mahindra Cerium system / Cognizant GenC /TCS Ninja /Tata Consultancy LTD
16	Nikshitha S	1JT19EC027	Cognizant GenC
17	Pavan L	1JT19EC029	Cognizant GenC
18	Pradyumna M	1JT19EC030	TechM
19	Raghavendra K R	1JT19EC034	Tech Mahindra Cerium system /A3 Technologies
20	Rakshita C	1JT19EC035	Ciirc
21	Ramkumar A R	1JT19EC037	SLK software / A3 Technologies
22	Sameer Srinivas	1JT19EC041	TechM
23	Sampath M P	1JT19EC042	TechM
24	Sandeep J S	1JT19EC043	Skill camper
25	Sharath P	1JT19EC044	TechM
26	Sinchana H C	1JT19EC047	Techmeridian
27	Sowjanya A	1JT19EC048	Tech Mahindra Cerium system / Cognizant GenC /TechM
28	Sriram S	1JT19EC049	Cognizant GenC
29	Srivatsa Datta C	1JT19EC050	Cognizant GenC
30	Suhas Devadiga	1JT19EC051	Cognizant GenC
31	Vishwas U	1JT19EC054	6D Technologies
32	Yathish G	1JT19EC055	TechM
33	Rochana A Ritti	1JT18EC035	TechM

### ***Paid Internships***

<b>Sl. No</b>	<b>Student Name</b>	<b>USN</b>	<b>Company Name</b>	<b>Amount Paid</b>
1	Adeesha S U	1JT19EC003	Prerana engineering works	10k per month
2	Chandan Kumar U	1JT19EC009	Magical MNX	25K for 6 month
3	Chandana B S	1JT19EC009	Altramatic	10k per month
4	Keshava Hegde	1JT19EC015	Nbil	10k per month
5	Manoj P Hegde	1JT19EC020	A3T technologies	8k per month
6	Navya P Vernekar	1JT19EC024	Magic mux technologies LLP	25k for 6 months
7	R Suhas	1JT19EC033	Theory desk Pvt ltd	18k per month
8	Shashank B	1JT19EC045	Cognizant	12k per month
9	Sowjanya A	1JT19EC048	A3T technologies	8k per month
10	Sriram S	1JT19EC049	Cognizant	12k per month
11	Srivatsa Datta C	1JT19EC050	Cognizant	12k per month
12	Sushma S Bharadwaj	1JT19EC052	Cognizant	12k per month
13	Vishwas U	1JT19EC054	A3T technologies	8k per month

### ***Toppers of the semester***

<b>Semester</b>	<b>Name and USN</b>	<b>Percentage</b>
8 <sup>th</sup>	1. Mahesh B [1JT19EC017]	93.4 %
	2. Raghavendra K R [1JT19EC034]	93.2 %
	3. Rakshita C [1JT19EC035]	91.4 %
6 <sup>th</sup>	1. Jaya Agarwal [1JT20EC020]	90.9 %
	2. Hitha Dathananda [[1JT20EC018]	85.9 %
	3. Advitha Chandrashekara H [[1JT20EC002]	79.1 %
4 <sup>th</sup>	1. Nirmitha D [1JT21EC046]	90.2 %
	2. Udhayashri K A [1JT21EC081]	88.5 %
	3. Bhumika N Nadig [1JT21EC011]	85.6 %



## *Faculty Achievements*

**Dr. Asha Bharathi**, an Associate Professor, in the Department of Electronics and Communication Engineering, spearheaded a week-long meditation initiative named "**Jyothy Meditates**" at Jyothy Institute of Technology. This program, which ran from March 6th to 10th, 2023, welcomed the participation of approximately 150 faculty members across all departments of JIT.



The "**Har Ghar Dhyan**" session, orchestrated under her guidance in collaboration with the Art of Living Organization, achieved remarkable success. It introduced meditation to approximately **600 students**, a practice much needed in the current times. Dr. Asha Bharathi also led meditation and stress management sessions as part of the student Induction program at **Dayanand Sagar University**.



**Dr. Hamsa S**, Associate professor in department of Electronics and Communication Engineering, was honored as the **chief guest at SSK PU College**, where she delivered an inspiring motivational speech during the institution's orientation and the inauguration of the 1st PUC which was held on 15th June 2023

## *Faculty paper publications*

Name of the Staff	Research Article Name	Indexing	Date of Publish
Dr. Geetha Priya, Dr. Krishnaveni D	Glacier Ice Surface Velocity Using Interferometry, Futuristic Communication and Network Technologies (pp.67-75) doi:10.1007/978-981-19-8338-2_5	Scopus	May 2023
Dr. Asha Bharathi S Dr. Asha Bharathi S	Energy Enhancement and Optimization of WSN using Firefly Algorithm and Deep Learning, 2022 International Conference on Edge Computing and Applications (ICECAA), Tamilnadu, India, 2022, pp. 1432-1436, doi: 10.1109/ICECAA55415.2022.9936146	Scopus	Dec 2022
	Key Frame Extraction Analysis Based on Optimized Convolution Neural Network (OCNN) using Intensity Feature Selection (IFS), 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), Tashkent, Uzbekistan, 2022, pp. 842-847, doi: 10.1109/ICTACS56270.2022.9988474.		Dec 2022

	Hybrid Feature Selection Model for Computer Aided Diagnosis System in Lung Segmentation International Journal of Intelligent Systems and Applications in Engineering, , vol 11, (8), pp 517-525, 2023,	Scopus	June 2023
Dr. Hamsa S	Micro-strip Patch Antenna for 5G sub 6 GHz Applications, International Interdisciplinary Humanitarian Conference for Sustainability (IIHC), Bengaluru, India, pp. 616-620, doi: 10.1109/IIHC55949.2022.10060179.	Scopus	March 2023
	COVID-19 Effect on India's Business Utilizing Online, Blockchain, or AI Algorithms, 2023 International Conference on Artificial Intelligence and Smart Communication (AISC), Greater Noida, India, 2023, pp. 442-446, doi: 10.1109/AISC56616.2023.10085658.		April 2023
	The Traffic-Aware Scatter Net Scheduling (TAAS) for Multicast Wireless Protocols, 2023 International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE), Ballar, India, 2023, pp. 1-6,		June 2023
Srilakshmi R	A new strategy for the morphology-controlled synthesis of Ni/Co MOFs for high-performance asymmetric supercapacitors, Journal of Energy Storage, Volume 61, 2023, 106766, ISSN 2352-152X, <a href="https://doi.org/10.1016/j.est.2023.106766">https://doi.org/10.1016/j.est.2023.106766</a> .	Elsevier	Jan 2023
Shivraj A	Lifetime ratio improvement in relay nodes using CWSN for cooperative wireless sensor networks, 2022 3rd International Conference on Communication, Computing and Industry 4.0 (C2I4), Bangalore, India, 2022, pp. 1-6./	IEEE	March 2023

### *Projects sanctioned under KSCST*

Faculty Name	Project Tile	Year of Sanction	Funding Agency	Total Amount Sanctioned	Amount utilized during current year
Dr. Ajjaiah B M	Design and analysis of dental disorder detection system using AI-ML and Image Processing	2022-2023	KSCST	7000	7000
Mrs.Smita Agarwal	FitBrix: An AI enabled activity tracker for aged or physically challenged people	2022-2023	KSCST	6500	6500
Mr.Rajesh Sudi	E-Eye using Raspberry pi for visually imapaired people	2022-2023	KSCST	7000	7000

# Department of Electronics and Communication Engineering

## Editorial Board



**Dr. K Chandrasekhar**  
Professor and Head



**Dr. Hamsa S**  
Associate Professor

## Student Editors



**Venkatesh V, 3<sup>rd</sup> year**  
[1JT20EC053]



**Tejas B, 3<sup>rd</sup> year**  
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**Udhayashree K, 2<sup>nd</sup> year**  
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