



Dayananda Sagar University

School of Engineering

Jan-June 2024

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ELECTROCLIPS



Presented By
ELECTROBLITZ CLUB

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**



THE BIANNUAL NEWSLETTER OF ELECTRONICS

ABOUT THE DEPARTMENT

Dayananda Sagar University, School of Engineering started with the Electronics and Communication Engineering (ECE) Department in the year 2015. As a unit of excellence, the Department is well committed to impart the knowledge with highly qualified and well specialized faculty in the vistas of Electronics and Communication. The department has well established infrastructure and innovative labs put in place to facilitate the first experience to students, for its academic and research programs. It runs four programs namely UG, PG with specialization of Embedded systems, B.Voc in Mechatronics and Doctoral degree. The department has collaborated with NTTF to offer the Vocational degree. This program enables the graduating students to accept a professional career which demands very high-level industry relevant skills. An exclusive BOSCH REXROTH lab is integrated into the curriculum and students can conduct automation projects. The industry sponsored Analog Devices Lab also provides students with opportunities to conduct research in the Communication Domain. The department faculty have patents and sponsored research projects funded by various Government funding agencies.

VISION

"To create innovative Engineers and Entrepreneurs with technological excellence, professional commitment and social responsibility for serving national and global needs."

MISSION

- Inculcate Academic Excellence through innovative teaching and learning processes and espousing appropriate pedagogical parameters.
- Reinforce the Students with desired technical aptitude, entrepreneurial and leadership skill sets enabling them to face the challenges of globalization and technological sophistication.
- Initiation with understanding the psychology of students, socio-cultural aspects of the bidirectional learners, vitality of interdisciplinary approach, value addition through interactive and collaborative learning. This is followed by systematic and sequential implementation of syllabus upgradations on par with industrial revolution.

Program Educational Objectives (PEOs) - UG

- Our Graduates will have in-depth knowledge of Electronics and Communication Engineering with promising professional careers in private and public sector or higher education.
- Our Graduates will be successful in solving Engineering Problems with innovative ideas and acquire managerial skills for desired outcomes.
- Our Graduates will have the motivation for perennial learning and progress their careers by inculcating interpersonal, leadership and social skills.
- Our Graduates will be active members for catering to the society locally and globally with Ethics and Integrity

Program Educational Objectives (PEOs) - PG

- Analyze and formulate suitable Electronic Design Automation (EDA) to solve real world problems in the Embedded Systems domain to design innovative products and systems
- Develop managerial skills and relevant techniques in the disciplines of Embedded Systems that include safety and sustainability, and become a successful professional or entrepreneur in the sector.
- Pursue a career in Embedded Systems research by self-teaching and self-directed research on cutting-edge technology

Program Educational Objectives (PEOs) - B.Voc

- Our Graduates will have in-depth knowledge of Mechatronics (B.VoC) with promising professional careers in private and public sector or higher education.
- Our Graduates will be successful in solving Engineering Problems with innovative ideas and acquire managerial skills for desired outcomes.
- Our Graduates will have the motivation for perennial learning and progress their careers by inculcating interpersonal, leadership and social skills.

Program Specific Outcome (PSO) - UG

- Apply the knowledge of Electronics and Communication to solve Engineering Problems in various domains of Engineering Sciences.
- Adopting analytical skills and complementing the cross-cutting technology to arrive at optimum solutions for Engineering Problems.
- Adaptability to dynamic work environment to address the societal needs with ethical approach.

Program Specific Outcome (PSO) - PG

- Develop skills in Embedded Systems, Design, Testing, Verification, and prototyping with a focus on applications.
- Integrate numerous subsystems to create a System On Chip, enhance its performance, and excel in Embedded domain-related industries.
- Apply use contemporary design tools for efficient product development.

Program Specific Outcome (PSO) - B.Voc

- Apply the knowledge of Mechatronics to solve Engineering Problems in various domains of Engineering Sciences.
- Adopting analytical skills and complementing the cross-cutting technology to arrive at optimum solutions for Engineering Problems.
- Adaptability to dynamic work environment to address the societal needs with ethical approach.

DEAN'S DESK

**Dr. Udaya Kumar
Breddy K R**



I am delighted that the Department of Electronics and Communication Engineering is bringing out the magazine that can provide wonderful insights for students and faculty fraternity. A lot has been happening in Electronics Sciences over the years, and one of the significant changes involves this newsletter. Our graduate students are doing amazing things in many different areas in different ways. In the current issue, you'll meet some remarkable students and faculty who are making a difference in the technical aspects and otherwise. We are hoping to build this endowment with your support, to afford even more opportunities for students to take part in this important component of their graduate education. I hope this magazine provides the reader a wonderful insight and I thank the editorial team for their wonderful effort in bringing out this masterpiece.

WISH YOU ALL THE BEST.

CHAIRPERSON'S DESK

Dr. Arun Balaji



Dear All,

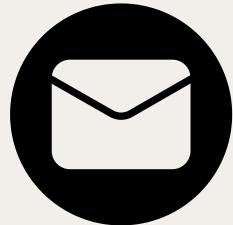
I hope this message finds you well and in good spirits. As we embark on another exciting year filled with opportunities and challenges, I wanted to take a moment to connect with each one of you. The Electronics and Communication Engineering Department has always been a vibrant community of passionate individuals dedicated to advancing knowledge, pushing boundaries, and contributing to the ever-evolving field of Electronics and Communication Engineering. Our collective efforts have resulted in numerous achievements, accolades, and a reputation for excellence. Firstly, I would like to express my gratitude to our dedicated faculty, passionate students, and supportive staff for their continued commitment to excellence in teaching, research, and innovation. Your collective efforts have positioned our department as a leader in advancing cutting-edge technologies and shaping the future of Electronics and Communication Engineering. In the spirit of fostering a sense of community and celebrating our achievements, I am pleased to announce the upcoming release of the Electronics and Communication Engineering Department Magazine. This publication aims to showcase the remarkable work, accomplishments, and stories within our department. I encourage you all to actively engage in departmental activities, research initiatives, and various events that will be organized throughout the year. Your unique perspectives and skills contribute significantly to the dynamic and enriching environment that defines our department. Your dedication and passion are the driving forces behind our success. I am confident that, together, we will continue to excel and make lasting contributions to the world of Electronics and Communication Engineering. "The focus of the department is to provide a better campus-based educational experience to the students for developing their learning interest and critical thinking to increase competencies in them."

Wishing you a productive and fulfilling year ahead

EDITORIAL MESSAGE

Spark Ignition: The Unwritten Code of Our Community

Dear ECE family,



As we navigate the ever-changing landscape of technology and innovation, it's easy to get lost in the noise. But amidst the hum of circuit boards and the glow of screens, there's a thread that weaves us together – our passion for electronics.

Electroclips is more than just a magazine; it's a spark plug for our community. It's where stories meet innovation, where dreams become reality, and where friendships are forged. Every issue is a snapshot of what makes us tick, a testament to the diversity of talents, perspectives, and backgrounds that make ECE so vibrant.

We're not just talking about achievements; we're talking about experiences. We're talking about late-night hackathons, project triumphs, and failures turned into lessons learned. We're talking about students who've dared to dream big, staff who've mentored with heart, and alumni who've paved the way for those who come next.

This magazine is a time capsule of our collective spirit – one that's fueled by curiosity, creativity, and a willingness to learn. By contributing your stories, ideas, and talents to Electroclips, you're not just writing history; you're creating it.

So, let's spark some ignition in our community! Let's share our passions, showcase our work, and celebrate each other's successes. Together, we can create something truly remarkable – a magazine that embodies the essence of ECE and inspires others to join us on this incredible journey.

Join us on this spark-filled adventure!

DEPARTMENT EVENTS



THE BIANNUAL NEWSLETTER OF ELECTRONICS

PROJECT EXTRAVAGANZA

The Department of Electronics and Communication Engineering (ECE) hosted the Final Year Project Exhibition, Project Extravaganza-2024, on May 20th, 2024. Dr. Saara K, Professor, and Dr. Mukti C, Assistant Professor of the Dept. of ECE, led the organization of the event. Showcasing the innovative solutions and technical expertise of 8th-semester students, the exhibition was a testament to their academic journey. DSU-ECE Alumna, Ms. Vijeta Bhat, a Post-Silicon Validation Engineer at Google, provided expert guidance. Faculty members from the Department of ECE actively participated in the exhibition. The top three project groups were announced with the 1st position secured by Indhushree D, Hitesh K, Krishnakumar G, and Gangadhar K G under the guidance of Mrs. Shwetha MP, Assistant Professor, ECE. The 2nd position was clinched by Pavan H D, Yakshitha M, and Sridhar B A under the guidance of Mrs. Manasa K R, Assistant Professor, ECE. The 3rd position was secured by Ashwin J, Banu Prasad B, Mamillapalli Punith Vinay Rao, and Muheez H. J, under the guidance of Dr. Saara K, Professor, ECE, with each project batch earning cash prizes of Rs. 2000, Rs. 1000, and Rs. 500, respectively.



ONE-DAY WORKSHOP ON ECODRIVE: ACCELERATING SUSTAINABLE ELECTRIC MOBILITY

The event commenced with a warm welcome by Dr. Udaya Kumara Reddy, Dean of the School of Engineering at Dayananda Sagar University. Dr. Reddy set a positive tone for the day, highlighting the significance of the gathering and expressing his excitement for the upcoming sessions. This was followed by an invocation, creating a reverent atmosphere for the day's proceedings.

Dr. V. K. Aatre, an esteemed Indian scientist and former head of DRDO in Bangalore, delivered an inspiring address. He emphasized the importance of scientific research and innovation in India, urging attendees to contribute meaningfully to the scientific community. Dr. Gopalkrishna Hegde from the Indian Institute of Science, Bangalore, followed with a discussion on current trends in scientific research and the critical role of academic institutions in fostering a culture of inquiry and discovery.

The next address was given by Dr Ramesh R Galigekere, Professor & Dean Academics (Science and Technology) of Dayananda Sagar University, Harohalli. Dr. Ramesh provided a comprehensive overview of the science and technology initiatives, motivating students and faculty alike to strive for excellence in their respective fields.



ctory: Guests on Dias (L-R): Guests on Dias: (L-R) Dr Udaya Kumar Reddy, Dean, DSU; Dr V K Atre, Ex DRDO; Dr Gopalkrishna Hegde, Indian Institute of Science

The first distinguished speaker, Prof. Subramanium S from the Indian Institute of Science, Bangalore, captivated the audience with his presentation on advanced topics in inorganic and physical chemistry. He shared insights from his cutting-edge research, providing valuable knowledge to attendees. After a short coffee break, the second distinguished speaker, Dr. L. Venkatakrishnan, Chief Scientist at the National Aerospace Laboratories in Bangalore, discussed recent advancements in aerospace technology, focusing on innovations and future directions in the field. Dr. Ganesh Murthy from Daimler AG, Bangalore, was the third distinguished speaker. He highlighted the latest developments in automotive engineering, particularly the integration of new technologies in modern vehicles. His presentation provided a fascinating look into the future of the automotive industry.

ONE-DAY WORKSHOP ON "ECODRIVE: ACCELERATING SUSTAINABLE ELECTRIC MOBILITY"



SCHOOL OF
ENGINEERING

DAYANANDA SAGAR
UNIVERSITY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Devarakaggalhalli, Harohalli, Kanakapura Road, Karnataka 562 112

One-day Workshop on

"EcoDrive: Accelerating Sustainable Electric Mobility"

11th May, 2024 at 09:30 AM to 04:15 PM

Guests

Prof. Subramanian Sampath
Professor, Inorganic and Physical Chemistry, IISc, Bangalore

Dr. Ganesh Murthy CNS
Principal Engineer, Daimler Truck Innovation Center India, Bangalore

Dr. V. K. Aatre
Indian scientist, Former Head - DRDO
Scientific Advisor - Defence Minister of India.

Dr. L Venkatakrishnan
Chief Scientist, National Aerospace Laboratories, Bangalore

Dr. Gopalkrishna Hegde
Indian Institute of Science, Bangalore

Dr Gopalakrishnan Srinivasan
Indian Institute of Science, Bangalore

Conveners:

Dr. Amit Bhatt
Pro-Vice Chancellor, DSU

Dr. Puttamadappa C
Registrar, DSU

Vaijayanthi B Desai
Director-Communications
Dayananda Sagar University

Dr. Udaya Kumar Reddy KR
Dean, SoE

Dr. Ramesh R. Galigekere
Dean (Acad) Science and Technology

Organizers:

Dr. Arun Balodi
Chairperson, Dept. of ECE
Dayananda Sagar University

Dr. Pushpa Mala S
Associate Professor, Dept. of ECE
Dayananda Sagar University



Inauguration: Guests on Dias: (L-R) Dr Udaya Kumar Reddy, Dean, SoE - DSU; Dr S S Murthy, Ex Director, NITK; Dr Gopalkrishna Hegde, Indian Institute of Science; Dr V K Atre, Ex DRDO; Dr Ramesh R Galigekere, Professor & Dean Academics (Science and Technology), DSU; Dr Arun Balodi, Chairperson, Sept. of ECE, SoE-DSU

Following a lunch break, the afternoon session featured student presentations. The jury, consisting of Dr. L. Venkatakrishnan, Dr. Gopalkrishna Hegde, and Dr. Ramesh R. Galigekere, evaluated the students' research projects. The students showcased a variety of innovative ideas and findings, and the jury engaged them in thought-provoking question-and-answer sessions.

After a brief coffee break, the valedictory session began with feedback from participants, who shared their experiences and highlighted the event's most beneficial aspects. A jury member then addressed the attendees, summarizing the student presentations and providing constructive feedback. Awards were presented to the best student presentations, recognizing their outstanding contributions and encouraging further research.

The winners of the event were:

CIRCUITECH WORKSHOP

The Department of Electronics and Communication Engineering (ECE) organised Workshop on Building Practical Electronic Circuit-CircuTech on 03/05/2024. The workshop enhanced skills in first year undergraduate students and gave participants a comprehensive grasp of important topics related to Electronics. The primary objective of the event was to equip participants with a holistic view of Digital trainer kits, Active and passive electronic components and Logic gates. The workshop was organized by Prof.Divyashree H B, Electronics Course Coordinator, Dr.Shirshenduroy and Dr.Sneha Sharma,Assistant Professors.



ARDUINO WORKSHOP



The Department of Electronics and Communication Engineering (ECE) organised Hands on Experience on Arduino on 24/05/2024. The workshop enhanced skills in first year undergraduate students and gave participants a comprehensive grasp of Arduino board and nodemcu.

The primary objective of the event was to equip participants with hands on experience on Arduino board and to do various projects using Arduino board. The workshop was organized by Prof. Divyashree H B, Electronics Course Coordinator, Dr. Shirshendu Roy and Dr. Sneha Sharma, Assistant Professors.



SEMINAR ON AI CHIPS BUILT ON EDA STANDARDS



The seminar focused on the development of AI chips using Electronic Design Automation (EDA) standards. Held on February 26, 2024, from 10:00 AM to 12:00 PM at the Lecture Theatre in the School of Engineering, DSU Harohalli, the event featured an insightful session by Mr. Yatin Trivedi.

An expert in SoC Design and Standards Development at Capgemini Engineering, Mr. Trivedi provided valuable insights into the cutting-edge field of AI hardware. The seminar was convened by Dr. Arun Balodi, Professor and Chairperson of the Department of ECE, SOE, DSU.



SEMINAR ON "UNLOCKING OPPORTUNITIES: THE TURING SCHOLARSHIP"



Dr. Saara K, Professor, Department of ECE, orchestrated a seminar on "Unlocking Opportunities: The Turing Scholarship" featuring Mr. Jonathan Disley from Staffordshire University. The seminar enlightened attendees about the benefits and eligibility criteria of the scholarship, emphasizing exchange and master's programs at Staffordshire, UK. It served as a vital resource for those considering further studies abroad, offering insights into prestigious scholarships and international exchange programs. Attendees left with valuable knowledge to shape their academic and professional futures.

Industrial Visit to CMTI Bangalore

The industrial visit organized by Dr. Saara K at CMTI Bangalore on March 6th, 2024, offered MIET Russian international students an invaluable opportunity to explore cutting-edge technologies in manufacturing. Throughout the visit, students gained firsthand insights into Sensor Development Technology, Advanced Material and Characterization, Micro Nano Manufacturing, Additive Manufacturing, and the Noise and Vibration Laboratory. From learning about sensor calibration to witnessing the precision of micro and nano manufacturing, the visit provided a comprehensive understanding of modern engineering practices. Ms. Sumeha Banu N and Mr. Aashish from the international department commended the immersive experience. This visit not only bridged theoretical knowledge with practical applications but also facilitated cross-cultural exchange, preparing students to become future leaders in the global manufacturing landscape.





2) Seminar on "Navigating the Future: Mastering Industrial IoT"

Dr. Saara K spearheaded a pivotal seminar on March 7th, 2024, titled "Navigating the Future: Mastering Industrial IoT" at the Department of Electronics and Communication, SoE, DSU Kudlu Gate Campus. Coordinated by Ms. Sivasankari S S and graced by the presence of Dr. Arun Balodi, Chairman of ECE, the event featured Dr. Stefano Rinaldi from the University of Brescia, Italy, as the keynote speaker.

The seminar aimed to provide participants with a comprehensive understanding of Industrial Automation and Industrial Internet of Things (IIoT), focusing on foundational aspects, architecture, sensor technology, data analytics, security protocols, connectivity, standards, interoperability, and their integration with Industry 4.0 principles. Attendees were enriched with practical insights through case studies, empowering them to navigate the evolving landscape of industrial technology with expertise and foresight.

3) Labathon Events

On March 15th, 2024, a cohort of 20 6th-semester students from the Electronics and Communication Engineering (ECE) department actively participated in the Labathon event organized by Nokia at Manyata Tech Park, Nagawara ORR, Bangalore 560045. Dr. Saara K, serving as their mentor, accompanied the students and actively engaged in the event. The primary objective of the Labathon was to provide participants with comprehensive insights into the generation of telecom, radio setup, and the flow of 5G technology. Through a combination of lectures and lab visits, students had the unique opportunity to delve into the practical applications and nuances of telecommunications, gaining invaluable experiential knowledge in their field of study.



4) The Mathematical Vision of Maryam Mirzakhani

On March 13th, 2024, the 6th semester Electronics and Communication Engineering (ECE) students had the honor of attending an event organized by the Infosys Science Foundation, facilitated by the guidance of Dr. Mukti C, Dr. Vinu, and Dr. Saara K, who provided invaluable support throughout the activity.



The event granted students a remarkable opportunity to engage in a screening of the documentary titled "The Mathematical Vision of Maryam Mirzakhani" in commemoration of the International Day of Mathematics 2024. This documentary not only celebrated the profound mathematical achievements of Maryam Mirzakhani but also served as an inspirational testament to the transformative power of mathematical inquiry.



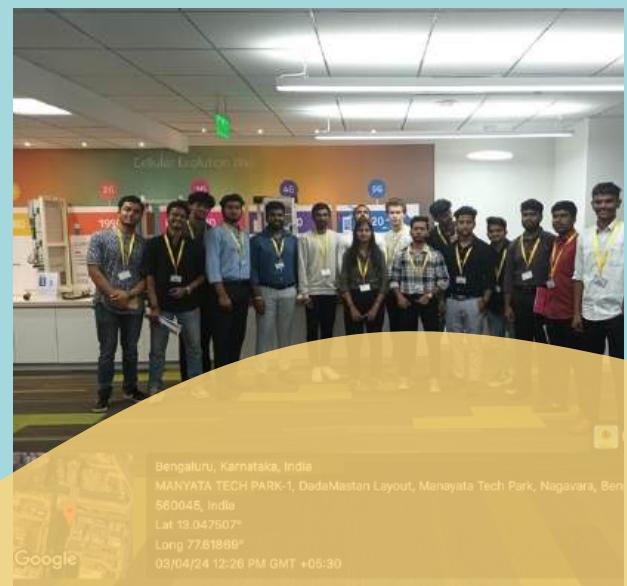
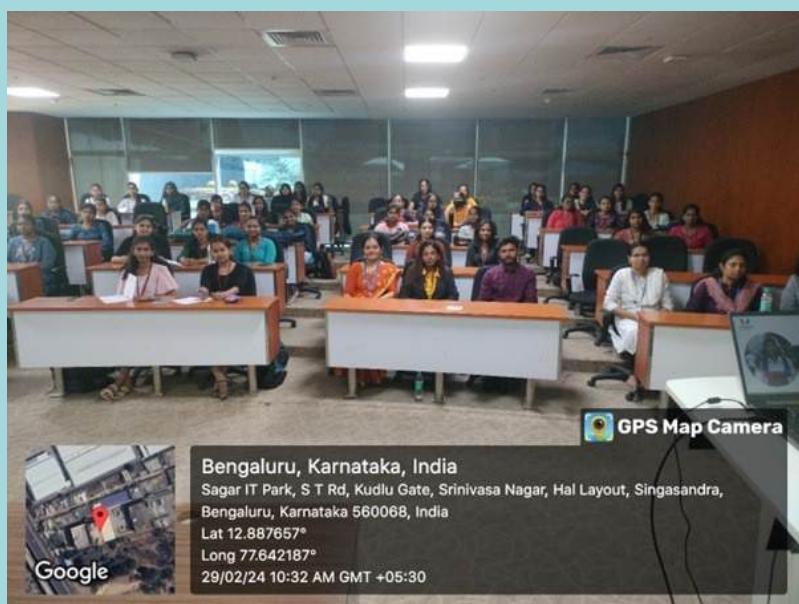
5) 20-Hour Value Added Course on IIoT for 4th Semester, by Dr. Stefano

Dr. Stefano, Associate Professor at University of Brescia conducted a comprehensive 20-hour value-added course on Industrial Internet of Things (IIoT) for the 4th-semester students. IIoT is a transformative technology that integrates machines, devices, sensors, and data analytics to improve industrial processes and efficiency.

ORIENTATION AND SOFT SKILLS SESSION AS PART OF THE INTEL INDIA STEM SKILLS PROGRAM FOR WOMEN 2023-2024 ON 29TH FEBRUARY 2024

Dr. Saara K, in collaboration with Dr. Arun Balodi, Chairman of ECE department, organized a pivotal orientation and soft skills session as part of the Intel India STEM Skills Program for Women 2023-2024 on 29th February 2024 in ECE department at Dayananda Sagar University, Kudlu Gate. The session featured Mr. Sachin Kumar Patil, Assistant Manager, Technology & Innovation, Ms. Poornima B and Mr. Virupaksha J S from Learning Links Foundation, as the distinguished speaker. The coordination of the event was skillfully managed by Mrs. Nandini R. G. The primary objectives were to introduce students to the Intel India STEM Skills for Women 2023-2024 initiative and encourage female participation in capacity development programs, specifically focusing on VLSI (Very Large Scale Integration) technology. This concise yet impactful event aimed to empower female students by providing insights and fostering an environment conducive to skill development, reflecting Intel India's commitment to advancing gender diversity and promoting women's participation in STEM fields.

As a part of evidence some photos are attached with this report.



Makeathon Events

On April 3rd, 2024, 20 6th-semester ECE students participated in Nokia's Makeathon at Manyata Tech Park, Bangalore. Mentored by Dr. Saara K, they explored telecom generation and 5G technology. The event focused on hands-on experience in communication setups, providing valuable exposure to real-world operations. Students actively engaged in practical exercises, demonstrating their ingenuity and problem-solving skills. Dr. Saara K's guidance ensured their active participation and learning. The Makeathon was a success, enriching students' understanding of cutting-edge communication technologies.

As a part of evidence some photos are attached with this report.

SEMINAR "JCU SCHOLARSHIPS AND HIGHER EDUCATION OPPORTUNITIES"



Dr. Saara K organized a seminar on April 19th, 2024, for 8th-semester students focusing on JCU Scholarships and Higher Education opportunities. Ms. Shruthi Srinivasan, Manager of Strategic Partnerships at James Cook University, Australia, served as the resource person. The seminar provided crucial insights into JCU scholarships and diverse higher education programs. Students left the seminar equipped with valuable knowledge for their academic pursuits abroad. Ms. Srinivasan's guidance enriched their understanding of opportunities at JCU. The event was a success, igniting students' enthusiasm for global academic engagement.

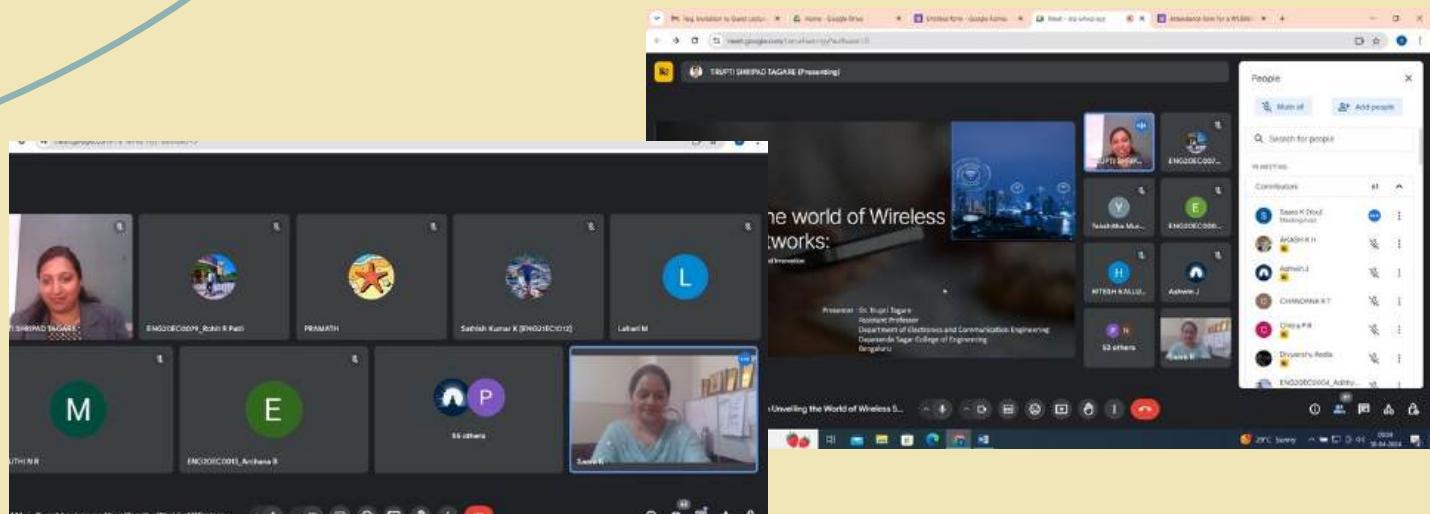
As a part of evidence some photos are attached with this report.

GUEST LECTURE: "UNVEILING THE WORLD OF WIRELESS SENSOR NETWORKS"

Dr. Saara K orchestrated a guest lecture titled "Unveiling the World of Wireless Sensor Networks" on April 30th, 2024, featuring DSU Alumna, Dr. Trupti Tagare, an Assistant Professor at Dayananda Sagar College of Engineering, Bangalore. The event, held from 09:30 AM to 10:30 AM, delved into connectivity and innovation in wireless sensor networks.

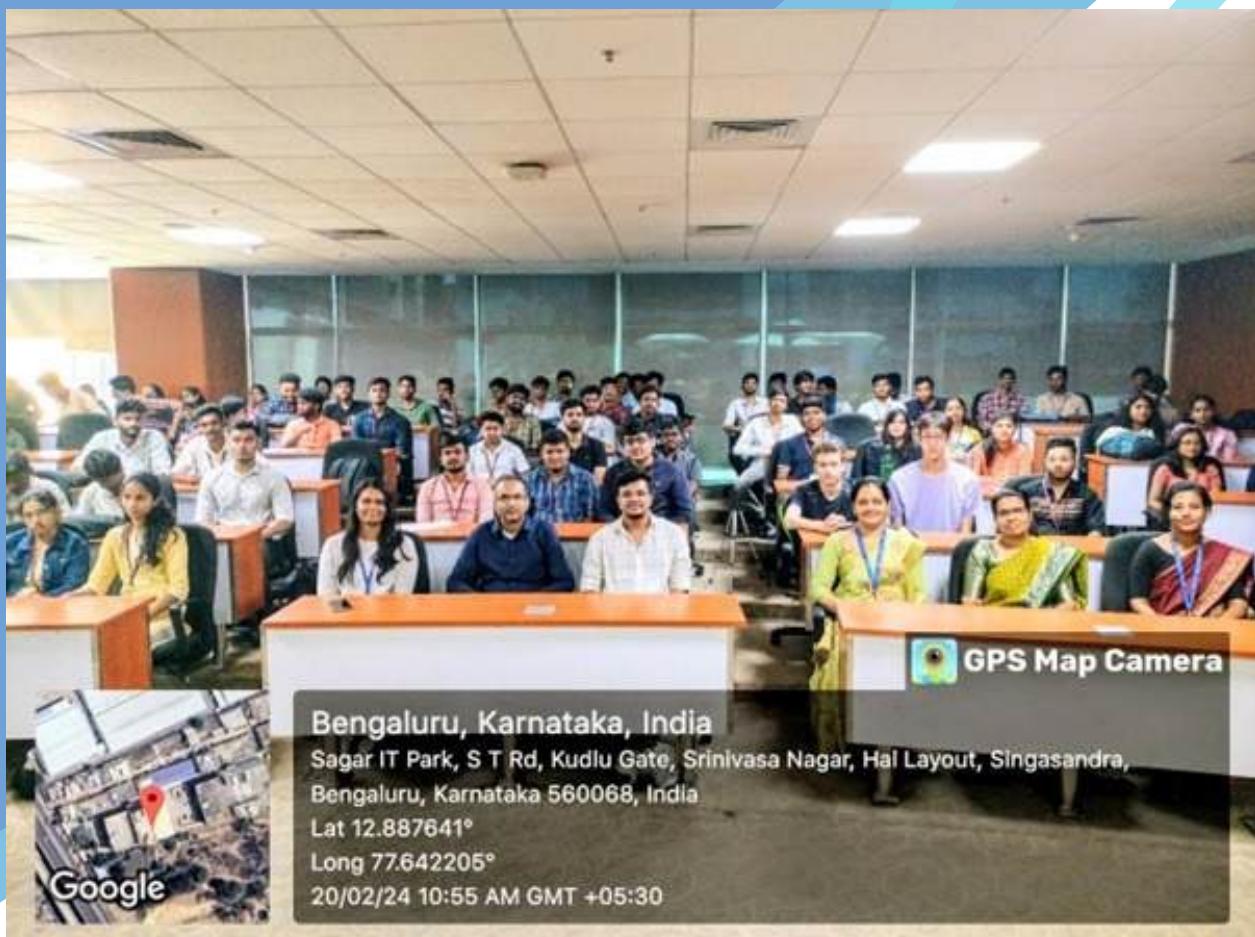
Dr. Tagare's expertise provided valuable insights into this burgeoning field. Attendees gained a deeper understanding of wireless sensor networks' intricacies and applications. The lecture sparked enthusiasm among students and faculty alike, fostering a culture of learning and innovation.

As a part of evidence some photos are attached with this report.



VALUE-ADDED COURSE ON "RECENT TRENDS AND ADVANCEMENTS IN ELECTRONICS" FEBRUARY 19 TO FEBRUARY 27, 2024.

Dr. Saara K recently spearheaded a highly successful initiative by organizing a comprehensive Value-added course, titled "Recent Trends and Advancements in Electronics," held from February 19 to February 27, 2024 in ECE department at Dayananda Sagar University, Kudlu Gate. The event's success was attributed to the dedicated efforts of esteemed colleagues, Dr. Vinu R, Ms. Jisy N, and Mrs. Sivasankari S, who played pivotal roles as the backbone of the program. The event garnered attention from notable external speakers representing Volvo Group, THINSIL Technologies, University College of Engineering Tindivanam, Qualcomm, and SSN Institutions, Chennai. The course featured enlightening lectures on contemporary trends in electronics by internal faculties Prof. Abhinav Karan, Prof. Swetha M P, Prof. Jisy N K, and Dr. Shirshendu Roy. Their collective expertise ensured a valuable learning experience, marking the event as a resounding success and contributing significantly to the commitment of staying at the forefront of electronic advancements. As a part of evidence some photos are attached with this report.



ELECTROBLITZ CLUB

THE BIANNUAL NEWSLETTER OF
ELECTRONICS

ELECTROBLITZ CLUB



Electroblitz is a student techno-cultural club formed under the Dept. Of Electronics and Communication, with the motive of providing a platform for students to exhibit both academic and extra curricular skills. The activities of the club enhance their technical skills and personal development apart from academics

VISION

To excel in developing engineers, and techno-entrepreneurs through quality technical education, imbibing societal and ethical values by leveraging interdisciplinary research for sustainable solutions



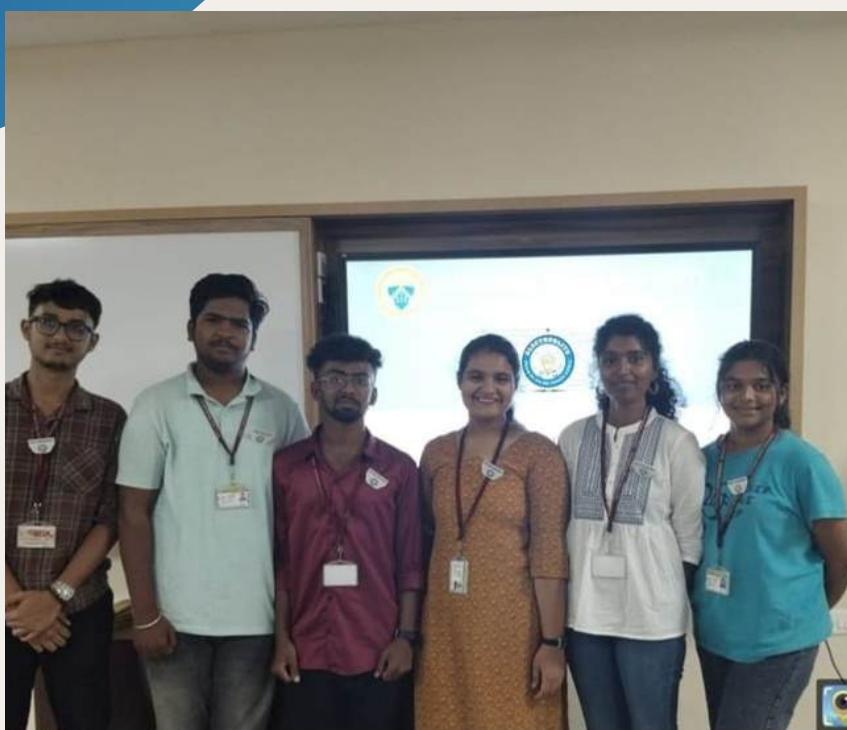
MISSION

The Department of Electronics and Communication Engineering is committed to:

M1: Design and deliver contemporary Electronics and Communication Engineering curricula to offer quality technical education centered on experiential learning, ethical values, and leadership qualities.

M2: Inculcate interdisciplinary research and innovative culture in partnership with industries and premier institutions.

M3: Create engineers and techno-entrepreneurs to meet societal needs by upholding moral principles.



ABOUT THE CLUB

ElectroBlitz Club is a student techno cultural club formed under the Electronics and Communication Engineering Department with the motive of providing a platform for students to exhibit both their academic and extracurricular activities .The prime intention behind the formation of this club is to enhance ones knowledge quotient with emphasis on their technical skills

TECHNOBUZZ

The event “Technobuzz” ,Unravelling the mystery, Assembling the circuit, was a treasure hunt competition with a technological twist was held on March 23,2024 at AEC labs,DSU-SOE We received an overwhelming response with 15 teams as a group of 4, registering for the event. We encouraged onspot registrations .

The winners and runners -up were as follows:

Winners: Harsha VP, Harikrishna,Tejas,Second,Year Dept of ECE

First runners up:Shreyas V,Tejas DS from Dept of ECE Pramod,Gagan, Second Year,Dept of CSE

Second Runners up: Soujanya SN, Shravani BP Shraddha Patil ,Second Year, Dept Of ECE



SOLDERING COMPETITION

The event “Soldering Competition ,Ignite Innovation ,Solder Perfection” was conducted with the insight of providing the participants with knowledge of intricate circuitry on 3rd May,2024

We received an overwhelming response with 20 teams registering for the event. We encouraged onspot registrations .

winners and runners -up were as follows:

Winners: Shreyas V,Ghani Phani Kumar, Satish Siddaram Bekkeri, Second Year,Dept Of ECE

First Runners up: Shashi Kumar, First Year , Department Of CSE(DS)

Second Runners up:Usha D,Supritha BM,Urvashi



ROBOWARS

The most exhilarating event of 2024 of Electroblitz Club "Robowars" was conducted on May 25 2024 with an intent of enhancing ones technical and architectural hold of the essence of robobuildong. This event served not only as the testament of one's technical skills but also stressed on the intricacies of team building and positive competitive attitude.

Robowars served as an elevated dias for competitiveness and knowledge quotient .We received an enchanting response with 17 teams participating in a team of 4 each

The event was divided into two segments:

Track it: The robots of all the teams were expected to clear the hurdles and reach the finish point

Bot brawl : The bots of all the teams were made to fight on the arena and compete against each other

The winners and runners up were as follows

Winners: Vishakh Rakshith , Satvik Joshi, Dayananda Sagar University

First runners up: Sandeep AS, B Ramkoti Reddy, AMCEC

Second Runners up: Shashi Kumar, Kunuku Sai Charan, Abhyukth , Rahul GN, Dayananda Sagar University

Glimpses From The Event



OATH TAKING CEREMONY OF THE NEW FLAG BEARERS

After multifarious rounds of selection process by the revered Club conveners and the acting flagbearers Of the Electroblitz Club ,the new flagbearers were selected for the following positions:

President: Aarthi Nayak Ullal
Vice President: Pramath Gopal Bhat
Secretary: Shreeraksha MN
Operational Head: Nandeesh HB
Treasurer: Vinod Ganiger
Design And Marketing Head: Sai Deekshitha R



The handing Over Of the authority was held on May 31,2024 in the presence of our esteemed conveners and Dr.Arun Balodi,HoD , Department of Electronics And Communication Engineering



IEEE SBC Inauguration



On June 7, 2024, Dayananda Sagar University (DSU) successfully inaugurated several IEEE Student Society Chapters, marking a significant milestone for our academic community. The new chapters include the IEEE Microwave Theory and Technology Society, IEEE Signal Processing Society, IEEE Communication Society, and IEEE Computer Society. Esteemed delegates such as Chengappa Munjandira, PhD; Abhishek Mahesh Appaji; Sujatha D N; and Dr. Ashwini Appaji delivered insightful speeches and offered valuable guidance on shaping our future careers with the support of IEEE. The event was conducted with the support of Dr. Arun Balodi, Dr. Pushpa Mala S, and Basavaraj N. Hiremath, PhD.

During the event, the new societies' executive committee members and activity plans were announced by the student chairs. This new chapter will provide a platform for students and professionals to connect, collaborate, and learn from each other.



CHANAKYA FELLOWSHIP -2024

Research proposals were invited from motivated Undergraduate students in education/research institutions in India to avail funding for Chanakya Fellowships for the year 2024. Under the guidance of Dr. Pushpa P.V, Professor from the Department of ECE, the candidate Mr. Kalluru Hitesh with USN ENG20EC0038 has been selected for the I-HUB QTF Chanakya Fellowships.

The research proposal submitted by Mr. Kalluru Hitesh, a final-year student of ECE Dept, DSU, and Dr. Pushpa P.V, Professor, ECE Dept, DSU, has been selected for the prestigious undergraduate Chanakya Fellowship under I-HUB QTF and which in turn funded by the Department of Science and Technology (DST), Government of India. The research work is based on the emerging field of Quantum Technology applied to the field of genetic disorders.

This recognition elevates our university to stand alongside esteemed institutions such as IITs, IISERs, and other leading research institutes in India. It is indeed a significant achievement for our Electronics and Communication Engineering (ECE) department, School of Engineering (SoE), and the entire DSU community.

The Chanakya Research Fellowship program for the year 2024 invited research proposals from motivated Undergraduate and Post-Graduate students in educational and research institutions across India. This is a testament to the exceptional talent and commitment of our students. The picture shows the list of selects of Chanakya Research Fellowships from various universities.



I-HUB QUANTUM TECHNOLOGY FOUNDATION

24 January 2024

CHANAKYA FELLOWSHIP-2024

With reference to the research proposals invited from motivated Under-Graduate and Post-Graduate students in education/research institutions in India to avail funding for Chanakya Fellowships for the year 2024, the following candidates have been selected for the I-HUB QTF Chanakya Fellowships:

A. Chanakya Undergraduate Fellowships (Duration 5 months)

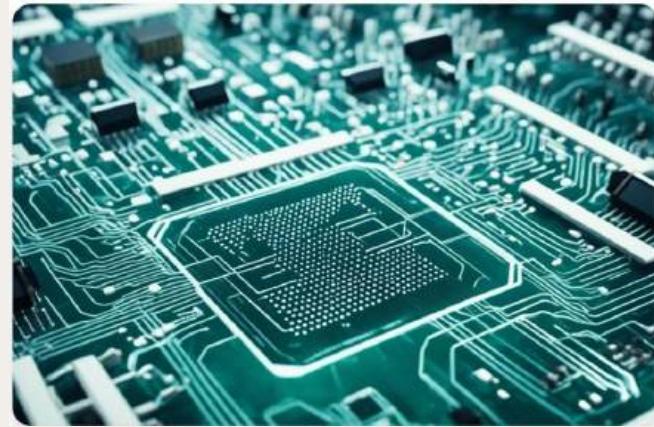
Sr. No.	Student Name	Mentor Name	Host Institute Name
1	Adithya G S	Dr. Sivarama Krishnan	IIT Madras
2	Adwait Riboud	Prof. Kasturi Saha	IIT Bombay
3	Ansuman Sahu	Dr. Deepasika Mishra	VIT AP University
4	Avi Kumar Sharma	Dr. Anirban Saha	Shodhini University
5	Charumathi k	Dr. Suresh R	Sci Manakula Vinayagar Engineering College
6	Kalluru Hitesh	Prof. Pushpa P.V	Dnyanand Sagar University, Bengaluru
7	Mohit Sachin Sabir	Dr. Rohit Medwalli	IIT Kharagpur
8	Neeraj Puglisi	Dr. Kasturi Saha	IIT Bombay
9	Parin Toshneel	Dr. Vinod Bhatia	IIT Madras
10	Shashank Chakraborty	Prof. Bhaskaran MuraliKaran	IIT Bombay
11	Siddhant Mitha	Prof. Kasturi Saha	IIT Bombay
12	Sreejan Namam	Dr. Deepasika Mishra	VIT AP
13	Tarnmayee Srinivas	Prof. Ashna Bajaj	IISER Pune
14	Velikka Vikaas Jakate	Dr. Kental Roy	IISER Bhopal
15	Vidheen Srinivas	Dr. Manish Kumar Pandey	Birla Institute of Technology, Mesra, Ranchi, Jharkhand



TECHNICAL BLOG

VLSI Design Automation in the AI Era

By Dr. Godfrey D.



Integrating AI into VLSI design has marked the beginning of a new era of innovation and automation. From optimizing power consumption to automating complex design processes, AI is now an indispensable tool for semiconductor designers. The blend of human creativity and AI-driven optimization advances VLSI circuit design, creating faster, more efficient, and reliable integrated circuits.

Future VLSI chip design services, including RTL design, DV, emulation, FPGA, physical design, and DFT. We focus on quality, reliability, and cost efficiency. Additionally, end-to-end ASIC development services and post-silicon engineering solutions can be done using AI in VLSI including:

Analog and mixed-signal design

Design for Test (DFT)

RTL and Physical design

Design Verification (DV)

FPGA Emulation and Validation

As AI continues to evolve, its impact on VLSI design will expand, promising a future where the limits of semiconductor design are continuously pushed. With platforms like AI Chips, we can fully harness the benefits of VLSI chip design.

PLACEMENT TRAINING

6th semester students were provided with excellent placement training which enhanced their knowledge on current industrial trends .This program facilitated learning and motivated the students for their future journeys in their respective industrial fields





STUDENT ACHIEVEMENTS

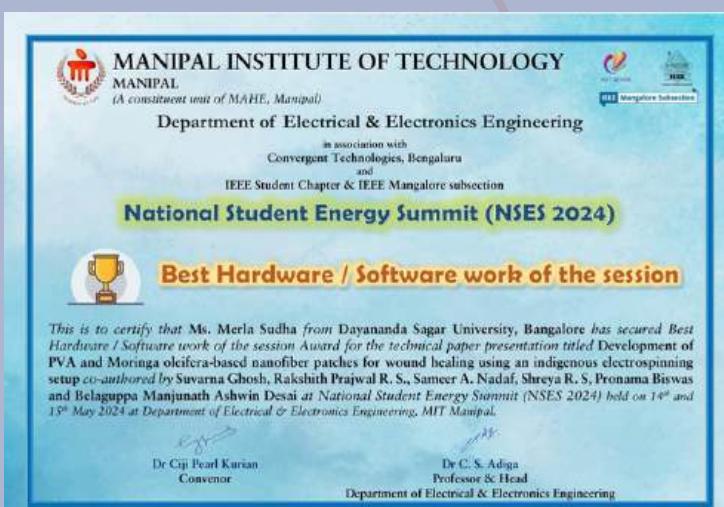


6th Semester student presented research paper in NSES 2024 conference and received Best Hardware/Simulation Award

Under the guidance of Dr. Saara K, 6th-semester student Ms. Neeraja Patil, along with international students Mr. Markov Vladimir and Mr. Skobelev Maksim, and co-author Prathap P B, presented a research paper at the National Student Energy Summit 2024, held on May 14, 2024 at the Manipal Institute of Technology. Their exceptional work was recognized with the Best Hardware/Simulation Award, accompanied by a cash prize of INR 1000. This achievement highlights the importance and impact of their work, reflecting a strong commitment to advancing sustainable energy technologies.

Undergraduate Success: Two Papers Presented at 66th All-Russian Scientific Conference, Moscow, Russia

In a commendable achievement, undergraduate students under the guidance of Dr. Saara K had two papers accepted and presented online at the prestigious 66th All-Russian Scientific Conference at MIPT in Moscow, Russia, on April 4th, 2024. The papers were accepted in the Digital Transformation Technologies and Radiophysics, Wave Processes, Radio-Electronic Information Systems sections, showcasing the students' prowess in diverse fields. Dr. Saara K's mentorship and role as the corresponding author underscore her dedication to nurturing academic excellence. These accomplishments mark a significant milestone for the students and reflect the department's commitment to fostering research and innovation. Students and reflect the department's commitment to fostering research and innovation.



Under the guidance of Dr. Ashwini Desai, 6th-semester student Mr. Samreen has secured best idea of the session for technical paper presentation titled Portable Personal Air Monitor at National Student Energy Summit.

Under the guidance of Dr. Ashwini Desai, 6th-semester student Ms. Merla Sudha has secured Best Hardware\Software work of the Session Award for the technical Paper presentation titled Development of PVA and Moringa oleifera-based nanofiber patches for wond healing using an indigenous electrospinning setup at National Student Energy Summit.



8th Semester student presented research paper in NSES 2024 conference and secured the second position Award.

Under the guidance of Dr. Saara K, 8th-semester students Mr. Punith Vinay Rao, Ashwin J, Banu Prasad B, and Muheez H J presented a paper titled "An Affordable Airborne Weather Observation Platform" at the National Student Engineering Symposium (NSES) held at MIT, Manipal. Their innovative work secured the second position, earning them a cash prize of INR 3000.

The PhD viva-voce examination of Mr. Prathap PB (USN: ENG18PPEC02) was held on May 13th, 2024, for his thesis titled "Optimized Cross-Domain Tilted Fiber Bragg Grating Driven Biosensing Solution for Clinical Decision System." Under the guidance of Dr. Saara K, Professor, Dept. of ECE, Mr. Prathap presented a comprehensive and insightful analysis of his research, which aims to enhance clinical decision systems through the development of a sophisticated biosensing solution utilizing tilted fiber Bragg gratings.

1. Student Publication: Detection of Tuberculosis Using 2-D Photonic Crystal-Based Biosensor

A paper titled "Detection of Tuberculosis Using 2-D Photonic Crystal-Based Biosensor" has been published in the Manipal Journal of Science and Technology. The research was conducted by Mr. Markov Vladimir and Mr. Skobelev Maksim, 6th-semester international exchange students at DSU from MIET, Russia, along with Ms. Neeraja Patil, a 6th-semester student, and other co-authors. Guided by Dr. Saara K, Professor of the ECE Department, the study demonstrates the superior performance of a 2-D photonic crystal-based biosensor using Titanium Dioxide (TiO₂). The biosensor showed significant detection capability with a sensitivity of over 80 nm/RIU and a quality factor of 5000.

Student Details:

Name USN

1 Markov Vladimir ENGRU01

2 Skobelev Maksim ENGRU02

3 Neeraja Patil ENG21EC0071

2. Student Publication: An Affordable Airborne Weather Observation

Under the guidance of Dr. Saara K, Professor of ECE dept., 8th-semester ECE students published a paper titled "An Affordable Airborne Weather Observation" in the Manipal Journal of Science and Technology. The research, conducted by Ashwin J, Banu Prasad B, Mamillapalli Punith Vinay Rao, and Muheez H J, focuses on the design, development, and evaluation of a low-cost weather monitoring blimp for agricultural applications. This blimp, equipped with a sensor array to measure weather parameters and leveraging IoT technology, provides real-time atmospheric data for precise short-term forecasts, aiding sustainable farming practices in remote and developing regions.

Student Details:

Name USN

1 Ashwin J ENG20EC0016

2 Banu Prasad B ENG20EC0018

3 Mamillapalli Punith Vinay Rao ENG20EC0050

4 Muheez H J ENG20EC0055

PLACEMENT



**Aditya J 8.25LPA at
Stonex**



**R Vamsi 8LPA at
EdgeVerve**

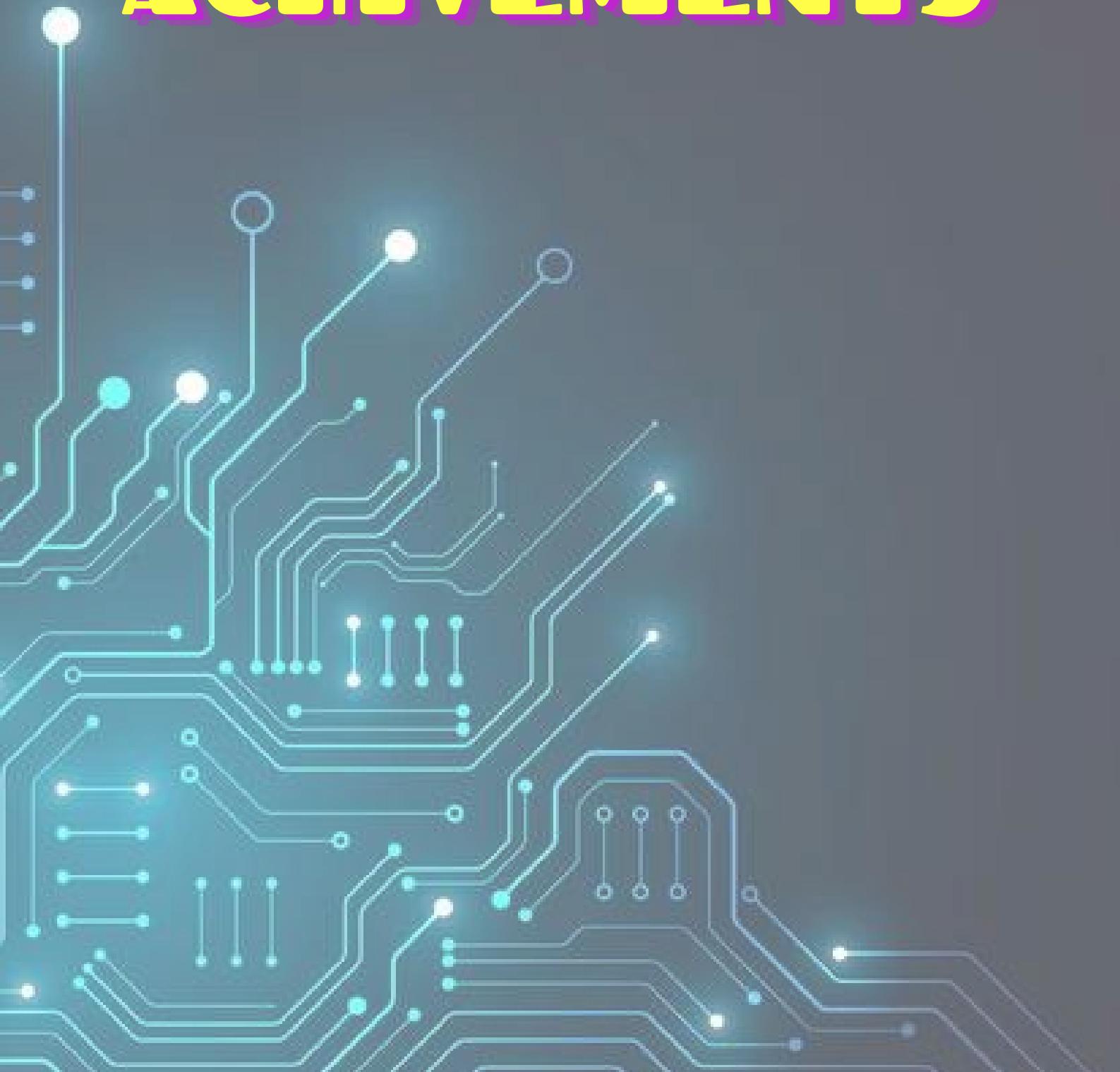


**Sahana D M 7LPA at
BGSW**



**SHREYAS S N 7LPA at
BGSW**

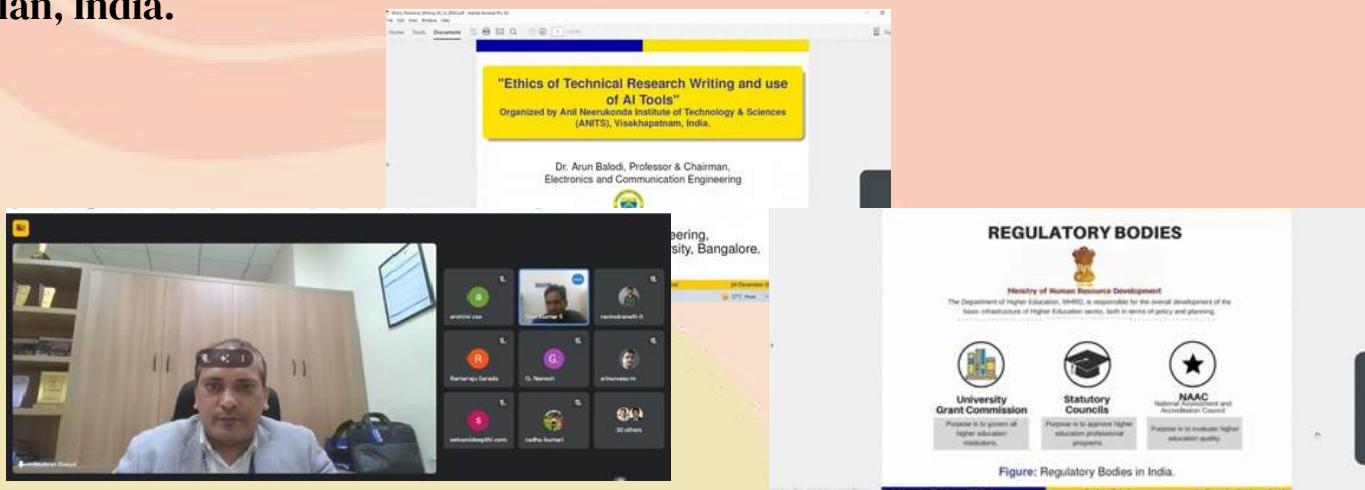
FACULTY ACHIEVEMENTS



DR. ARUN BALODI

Dr. Arun Balodi delivered a talk on "Ethics of Technical Research Writing and use of AI Tools" organized by Research and Development Cell, Anil Neerukonda Institute of Technology & Sciences (ANITS), Visakhapatnam, India on 29-12-2023.

Dr. Arun Balodi delivered a session in a two-week online refresher course on "Development of ICT Skills for Implementation of NEP-2020" Organized by UGC-Human Resource Development Center, B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan, India.



Publication

Ambar Bajpai, Manoj Tolani, Arun Balodi "Smart Healthcare System Using IoT, Cloud and AI/ML" Journal of Engineering Science & Technology Review (SCOPUS Indexed) (2023).

Conferences

Mohit Yadav, Rahul Khurana, Nitin Simha Vihari, Arun Mittal, Arun Balodi, Anugamini Priya Srivastava "Virtual Reality in Human Resource Management: Past, Present and Future Trends, in 2023 International Conference on Recent Advances in Science and Engineering Technology (ICRASET) held at B.G.S. Institute of Technology, Mandya Department of Electronics & Communication Engineering, Karnataka, during November 23-24, 2023.

Anugamini Priya Srivastava, Mohit Yadav, Rahul Khurana, Arun Balodi, Nitin Simha Vihari "Blockchain in Higher Education: Key Research Themes and Future Directions, in 2023 International Conference on Recent Advances in Science and Engineering Technology (ICRASET) held at B.G.S. Institute of Technology, Mandya Department of Electronics & Communication Engineering, Karnataka, during November 23-24, 2023.

Rahul Khurana, Mohit Yadav, Majdi Quttainah, Anugamini Priya Srivastava, Arun Balodi, Priyank Kumar Singh "Neural Networks in Recruitment: Trends and Future Directions in 2023" International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE) held at Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari, Karnataka Ballari, Karnataka, during November 02-03, 2023.

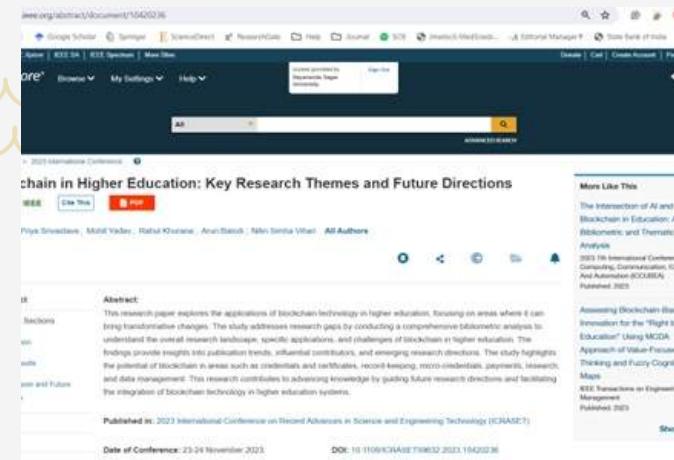
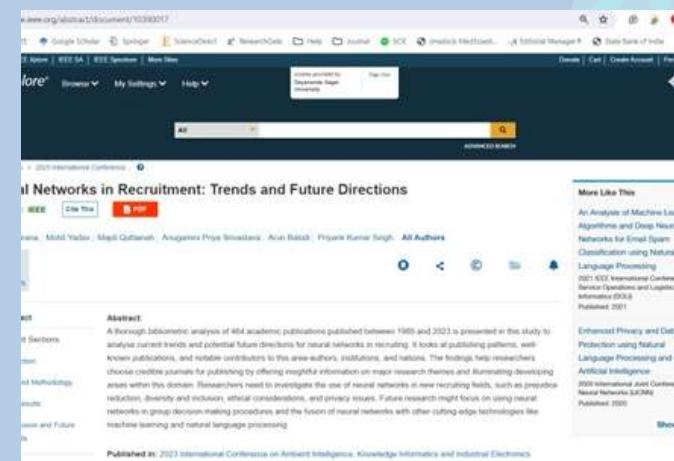
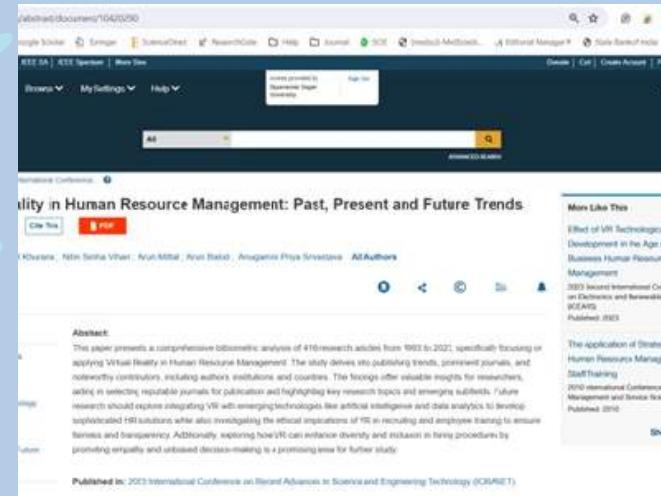
Rahul Khurana, Mohit Yadav, Majdi Quttainah, Anugamini Priya Srivastava, Arun Balodi, Priyank Kumar Singh "Neural Networks in Recruitment: Trends and Future Directions in 2023" International Conference on Ambient Intelligence, Knowledge Informatics and Industrial Electronics (AIKIIE) held at Rao Bahadur Y. Mahabaleswarappa Engineering College, Ballari, Karnataka Ballari, Karnataka, during November 02-03, 2023.

Book Chapter

Santhosh M, Bhargav P, Arun Balodi "Photovoltaic faults prediction by Neural Networks," published in Select Proceedings of 4th Electric Power and Renewable Energy Conference 2023.

Outreach Activities

- Dr. Arun Balodi is the Publicity Chair for the IEEE CONECCT 2024, it is the conference of opportunities for networking, excellence, collaboration, and cooperation among technologists. It is being organized by the IEEE Bangalore Section at J.N. Tata Auditorium, Indian Institute of Science, Bangalore, from 12 – 14 July 2024. For more details: <https://ieee-conecct.org/>
- Dr. Arun Balodi attended the Open Day hosted by IISc! Exploring cutting-edge research, engaging with faculty, and witnessing innovation firsthand was truly inspiring.
- Dr. Arun Balodi attended a dynamic community event "Embracing AI in Engineering" hosted at MathWorks, in collaboration with the IEEE Signal Processing Society and Computer Society.
- Dr Arun Balodi gave a talk on "Role of professional society in career management" on 9/2/2024, Venue: S203, B Block, City Campus, School of Engineering, DSU.





Dr. Arun Balodi successfully concluded the 5-Day Faculty Development Programme on 'Recent Advances in Electrical, Electronics & Communication Engineering (REECE 2024)'.

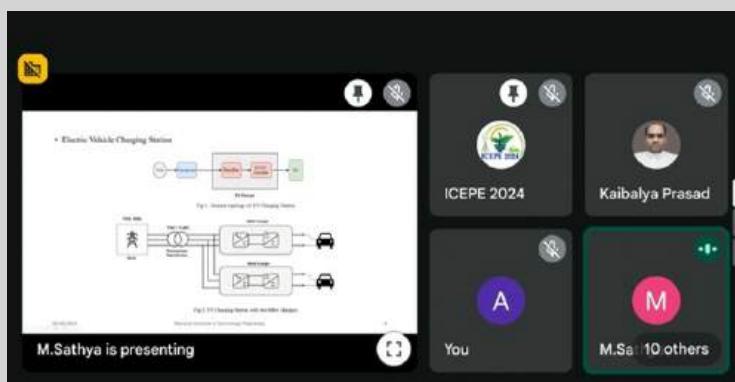
As a part of evidence some photos are attached with this report.

Captured images,

Dr. Arun Balodi received the Certificate of appreciation as Session Chair in track ASC-5 in the three-day International Conference Electric Power and Renewable Energy (EPREC-2024): <https://www.eprec.co.in/> organized by the Department of Electrical Engineering, NIT Jamshedpur, Jharkhand, Bharat from 24th to 26th May 2024.



Dr. Arun Balodi delivered the session in a highly informative Authors Workshop conducted as part of the ICASSP2025 satellite events on 14 June 2024 at BNMIT, Bangalore.



Dr. Arun Balodi served as Session Chair for Track: E-Mobility, at the 6th International Conference on Energy, Power, and Environment (ICEPE 2024).

ACHIEVEMENTS

Dr. Arun Balodi participated in the IEEE Conference Quality and Management Workshop (CQMW) titled 'Planning and Execution of IEEE Conferences' held at Dayananda Sagar Institutions on Saturday, June 22nd, 2024.



Participated as a reviewer in the 8th edition of the 2024 IEEE Students Conference on Engineering and Systems (SCES-2024), organized by the Department of Electrical Engineering, MNNIT Allahabad.



Dr. Arun Balodi delivered a talk on "Predictive Analytics in Healthcare: Forecasting Patient Outcomes with Machine Learning," at the Signal Synergy Conclave on June 22, 2024. This event, a collaboration between the IEEE AIT SPS & MTT-S Student Branch Chapters and the IEEE SPS Bangalore Chapter, as part of the ICASSP2025 satellite event was held at the Atria Institute of Technology Institute of Technology, Bangalore.



Dr. Arun Balodi published a paper "A Novel Method for Illegal Driver Detection and Legal Driver Identification Using Multitask Learning Based LSTM Models for Real-Time Applications" in *Wireless Personal Communications* (SCIE Indexed, Impact Factor: 1.9) (2024). <https://link.springer.com/article/10.1007/s11277-024-11368-w>

A Novel Method for Illegal Driver Detection and Legal Driver Identification Using Multitask Learning Based LSTM Models for Real Time Applications

Published: 24 June 2024

(2024) [Cite this article](#)

Arun Balodi

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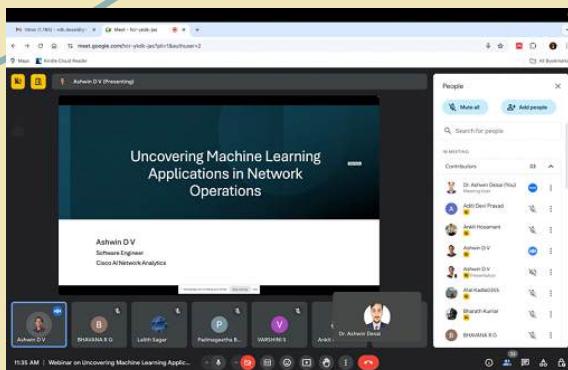
Dr. Supraja Eduru published article in International Journal of Communication Systems with title “Developing analytical models for the post-detection SINR of TSVD based techniques with imperfect CSI”.



Dr. Pushpa Mala S – TPC Chair
Dr. Supraja Eduru and Dr. Sneha Sharma – Session Chair

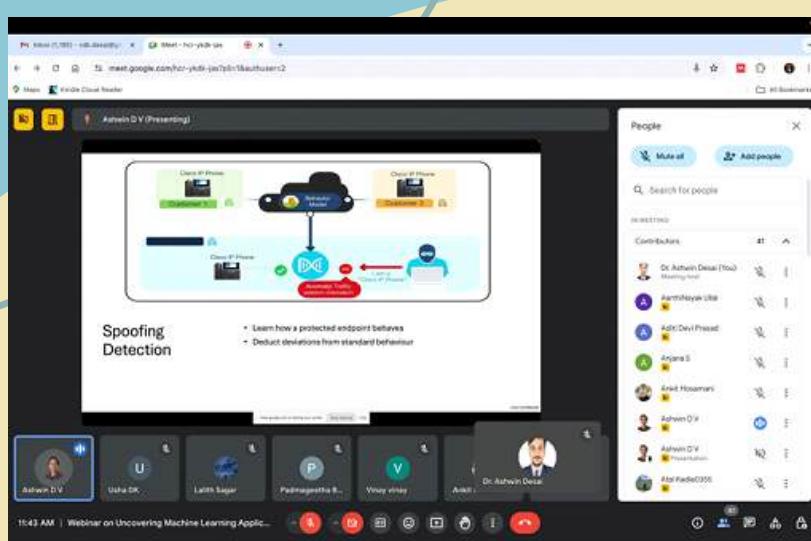
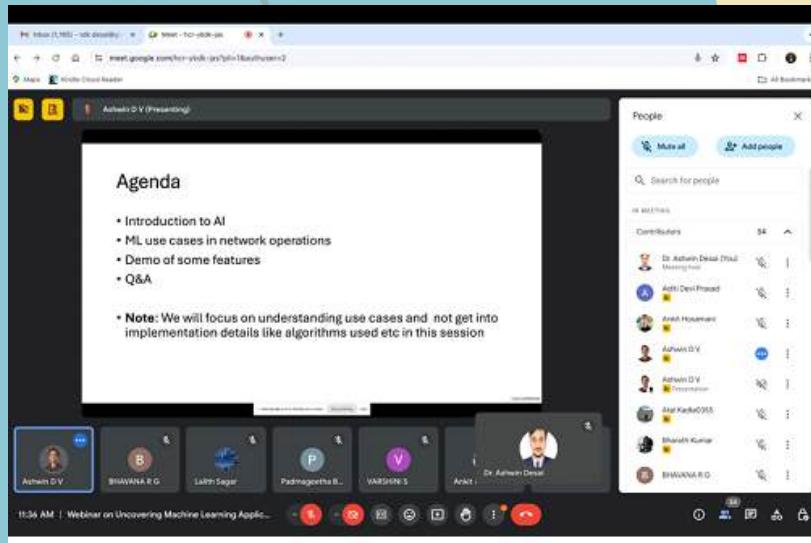
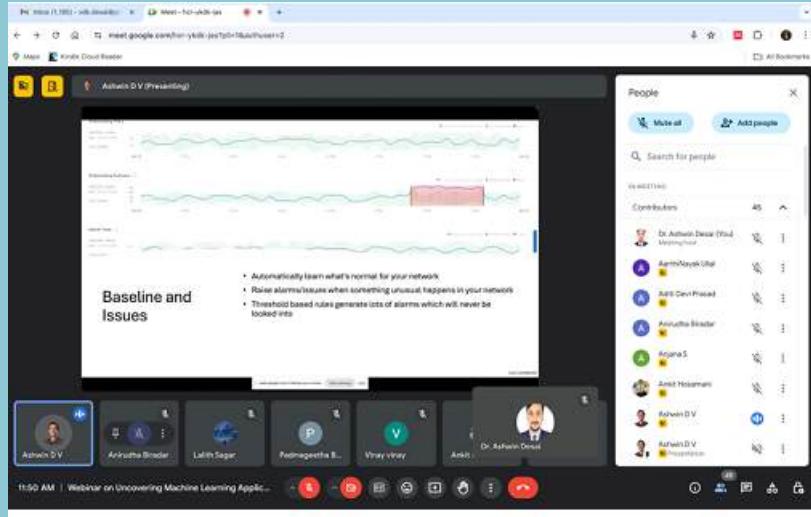
International Conference for Women in Innovation, Technology and Entrepreneurship, ICWITE is a flagship conference of the IEEE WIE AG, Bangalore Section, India. The second edition of ICWITE was held in Bangalore, India between 16th – 17th February 2024. The conference featured plenary talks, tutorials, workshops and invited papers by distinguished researchers and technologists with contributed papers from academics and industry professionals. In the role as TPC Chair, Dr. Pushpa Mala S, Associate Professor, Dept of ECE, spearheaded the meticulous evaluation of submitted papers, ensuring adherence to the IEEE conference's standards of excellence and fostering a collaborative environment among reviewers and authors. Concurrently, Dr. Supraja Eduru, Assistant Professor, Dept. of ECE and Dr. Sneha Sharma, Assistant Professor, Dept. of ECE served as Session Chairs guiding paper presenters through thought-provoking presentations, fostering engaging discussions, and maintaining the conference schedule with precision.

Dr. Supraja Eduru attended six days FDP on “VLSI Design and its Applications FDP”



DR. B. M. ASHWIN DESAI

"Uncovering Machine Learning Applications in Network Operation" was Scheduled on 13-07-2024 Approximately 50 (inculding studnets and faculty).Event Organized by Dr. BM Ashwin Desai, Associate Professor,ECE, SoE. The objective of this webinar was to explore the applications of machine learning in network operations, providing students with insights into the latest technologies and practices in this field. The webinar titled "Uncovering Machine Learning Application in Network Operation" was successfully conducted with the participation of around 50 students. The event featured an expert speaker who shared comprehensive knowledge on the subject, covering various aspects including benefits, challenges, data requirements, algorithm selection, real-time processing, anomaly detection, predictive maintenance, and future trends.

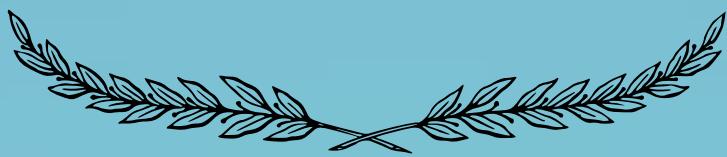


Highlights:

- The speaker provided an overview of how machine learning is transforming network operations.
- Detailed discussions on the benefits and challenges of integrating machine learning in network operations.
- Insightful examples of data requirements and the importance of data privacy and security.
- Explanation of algorithm selection and the effectiveness of specific machine learning models in network tasks.
- Real-time data processing and decision-making in network operations using machine learning.
- Use cases on anomaly detection, predictive maintenance, and traffic optimization.
- Future trends and the impact of emerging technologies like 5G and IoT on machine learning applications in network operations.

Participant Engagement: The webinar saw active participation from students who engaged in meaningful discussions and asked pertinent questions. The interactive session provided a platform for students to clarify their doubts and gain a deeper understanding of the subject.

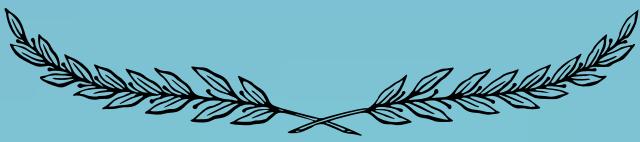
Conclusion: The webinar was a resounding success, achieving its objective of educating students on the application of machine learning in network operations. The positive feedback from participants highlighted the value of the insights shared and the overall effectiveness of the session.



FACULTY PUBLICATIONS

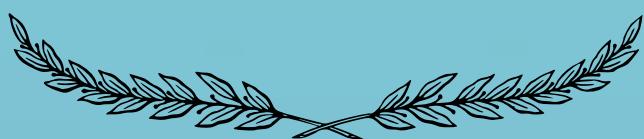
1)	Pushpa P.V.	<p>1] Divya Ramakrishnan, Pushpa P.V, “Compact Tilted Beam Steering Patch Antenna for Vehicular Applications” International Journal on Communications Antenna and Propagation (IRECAP) , Feb 2024 2] Pushpa B R., Pushpa P V and Devaraju, of Optimized Conformal Antenna Arrays for Airborne Applications , International Journal of Electronics and Communication Engineering, 2024 Accepted for publication</p>
2)	Dr. Saara K	<p>1. Pixelated Large Area rGO on Silicon based X-ray Detector, 10.1088/1402-4896/ad4745 (Q2 JOURNAL) 2. Fiber Bragg Grating as a Temperature Sensor for Human body Temperature Monitoring. 10.1007/s12596-024-01894-y (Q3 JOURNAL) 3. An FBG based Optical Pressure Sensor for the Measurement of Radial Artery Pulse Pressure. https://doi.org/10.1002/jbio.202400083 (Q2 JOURNAL) 4. A comparative study of reduced Graphene oxide synthesized through different techniques for UV-C radiation detection application. 10.1088/1402-4896/ad274b .(Q2 JOURNAL) 5. Multilayer Coating Assisted Gold-Encapsulated Tilted Fiber Bragg Grating Biosensor Design doi.org/10.1007/s12596-024-01711-6, (Q3 JOURNAL) 6. SiO₂-Au-GO based 2D Photonic Crystal Biosensor for Protein Analysis and Immunological Evaluation. 10.1007/s12596-024-01993-w (Q3 JOURNAL) 7. Detection of Tuberculosis Using 2-D Photonic Crystal-Based Biosensor. https://impressions.manipal.edu/mjst/vol9/iss1/5/ 8. An Affordable Airborne Weather Observation, Manipal Journal of Science and Technology. https://impressions.manipal.edu/cgi/viewcontent.cgi?article=1122&context=mjst</p>





FACULTY PUBLICATIONS

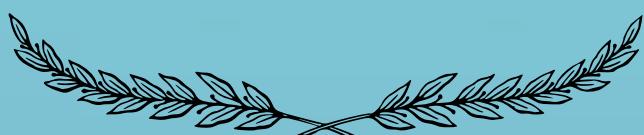
3)	Dr. Pushpa Mala S.	Pushpa Mala, S., Prajwal Raju, P., Poojashree, B., Hebbar, R., Bedre, V., & Manasa, K. R. (2024). Underwater Fleck Detection Using Convolutional Neural Network. <i>Journal of The Institution of Engineers (India): Series B</i> , 105(2), 365-373. DOI: 10.1109/IITCEE59897.2024.10467238
4)	Dr. Vinu R	<p>1.Jawahar A. Kaythry P, Vinoth Kumar C, Vinu R, Amrish R, Bavapriyan K, Gopinaath V.(2024b). DDoS mitigation using blockchain and machine learning techniques. <i>Multimedia Tools and Applications</i>, 83(21), 60265–60278. https://doi.org/10.1007/s11042-023-18028-4. (Q2 JOURNAL)</p> <p>2.Rahul Choudhary J, Rohit R Patil, Vinay M R, Vishal Rokkam, Vinu R, Jisy N K,” Fast AI Billing System “, <i>Proceedings of 9th National Conference on Information and Communication Technologies, NCICT 2024</i>, February 29 & March 1, 2024, pp.no.28-31.</p> <p>3.Rahul Choudhary J, Rohit R Patil, Vinay M R, Vishal Rokkam, Vinu R, Jisy N K,” Fast AI Billing System “, <i>Proceedings of 9th National Conference on Information and Communication Technologies, NCICT 2024</i>, February 29 & March 1, 2024, pp.no.28-31.</p>
5)	Dr. Sneha Sharma	<p>1.Deepa, N., Sharan, P., Sharma, S. (2024). Computer-aided analysis of tapered roller bearings for rail transport system. <i>International Journal of Information Technology (Singapore)</i>. 16(2), pp. 831–839</p> <p>2.Deepa, N., Sharma, S., Sharan, P. (2024).A Simulation Investigation on Track Buckling to Avoid Derailments.<i>Proceedings of the 18th INDIAcom; 2024 11th International Conference on Computing for Sustainable Global Development, INDIACom</i>. pp. 639–644</p>





FACULTY PUBLICATIONS

6)	Dr. Supraja Eduru	Eduru, S., & Rangaswamy, N. (2024). Developing analytical models for the post-detection SINR of TSVD-based techniques with imperfect CSI. International Journal of Communication Systems, 37(6). https://doi.org/10.1002/dac.5705
7)	Dr. Godfrey D.	Godfrey D, Prajwal RN, Pathan MAL, Amin N, Susarla RK, et al. 2023. A Review on Piezoelectric and Thermoelectric Nanogenerators. NanoWorld J 9(S5): S29-S35
8)	Mrs. Divyashree H B	QOS Aware Secure Cluster Based Routing for Wireless Sensor Networks Using a Multi Objective-Trust Centric Artificial Algae Algorithm. Springer Conference



FACULTY DEVELOPMENT PROGRAMME

1)

Dr. Arun Balodi

Dr. Arun Balodi attended 5 Days Faculty Development Programme on “Research Methodology and Publication” organized by the Department of Mechanical Engineering and Department of Electronics and Communication Engineering, IMSEC, Ghaziabad, India, from February 19-23, 2024.



2)

Dr. Theodore Chandra S.

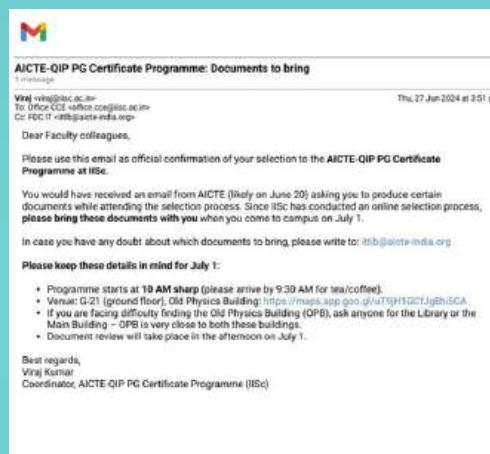
- "Selected for AICTE-QIP PG Certificate Programme at IISc
- Proposal being selected for the Rural Outreach Activity Conduction grant by IEEE Bangalore Section to the amount INR 5000
- Resource person for Open Day Exhibition at DSCE

FACULTY DEVELOPMENT PROGRAMME

2)

Dr. Theodore Chandra S.

- Completed six days National Level Faculty Development Programme on “RECENT TRENDS IN NANODEVICES, MATERIALS AND ITS APPLICATIONS” organized by Department of Nanotechnology, SIMATS Engineering, Chennai
- Invitation for Session Chair for ICIMIA 2023 at DSCE campus”



FACULTY DEVELOPMENT PROGRAMME

3)

Ms. Jisy N. K.

- "Completed Microsoft, SAP & AICTE led Faculty Development Programme on AI Evolution: From Foundations to Generative AI, under TechSaksham"



4)

Dr. Supraja Eduru

- Dr. Supraja Eduru attended six days FDP on "VLSI Design and its Applications FDP" Organized by Annant Gyan



5)

Dr. Deepthi Chamkur

- Participated in Online International Webinar on "ELT-INNOVATING TRADITIONAL TEACHING MATERIALS TO SUIT THE NEEDS OF 21ST CENTURY" organized by Nucleus of Learning and Development, India

FACULTY DEVELOPMENT PROGRAMME

5)

Dr. Deepthi Chamkur

- Participated in “ONE DAY ONLINE FACULTY DEVELOPMENT PROGRAM ON AI TOOLS FOR TEACHING” organized by Star International Foundation for Research and Education
- Completed the Five Days Faculty Development Programme titled Microwave Photonics Enabled Wireless Communication for Advanced Systems” organized by the School of Electronics Engineering, VIT Vellore
- Participated in Three Day Hybrid Mode Workshop on Researcher Identifiers to Enhance Research Visibility” organized by the Department of Library and Information Centre, in association with the NDLI Club Bangalore Institute of Technology





MEMORY LANE

ELECTROCLIPS

THE BIANNUAL NEWSLETTER OF ELECTRONICS







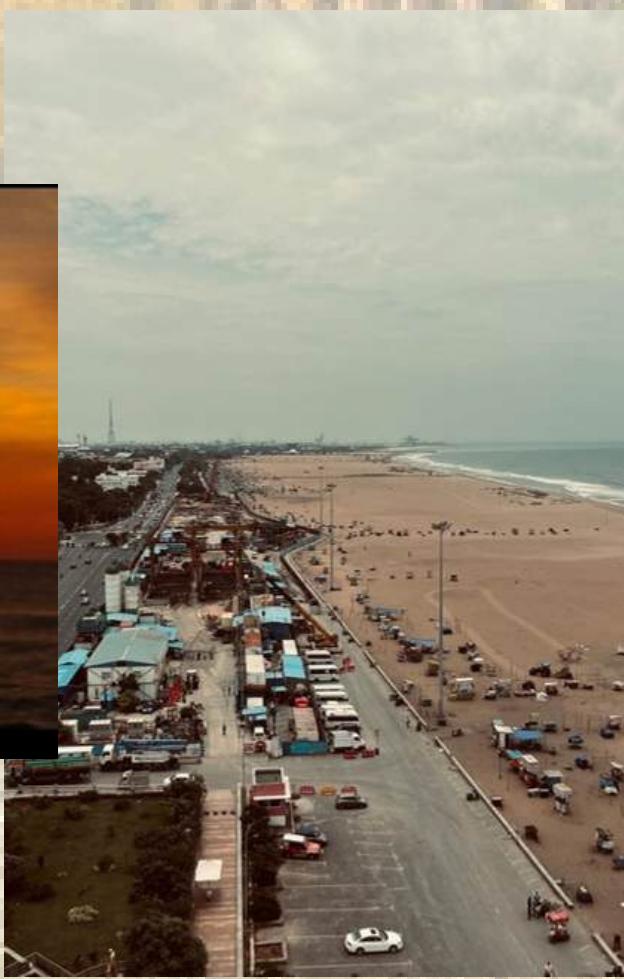




PHOTOGRAPHY AND ARTWORK

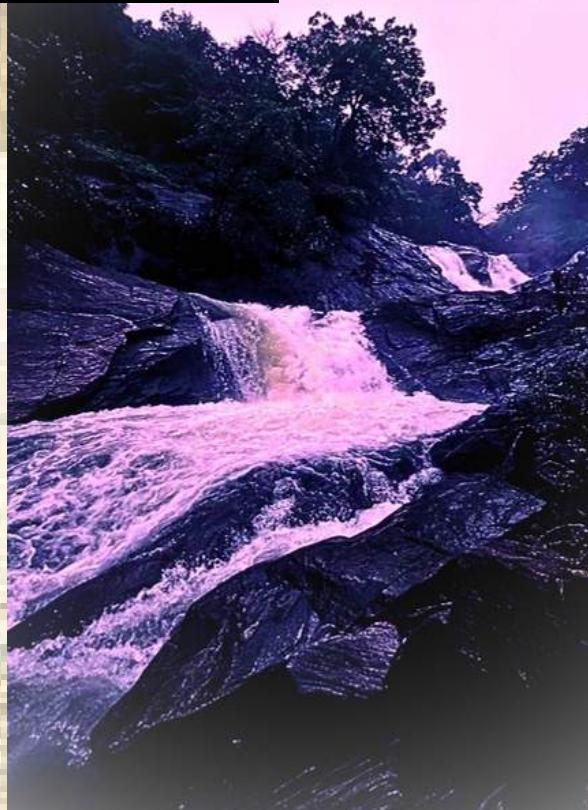
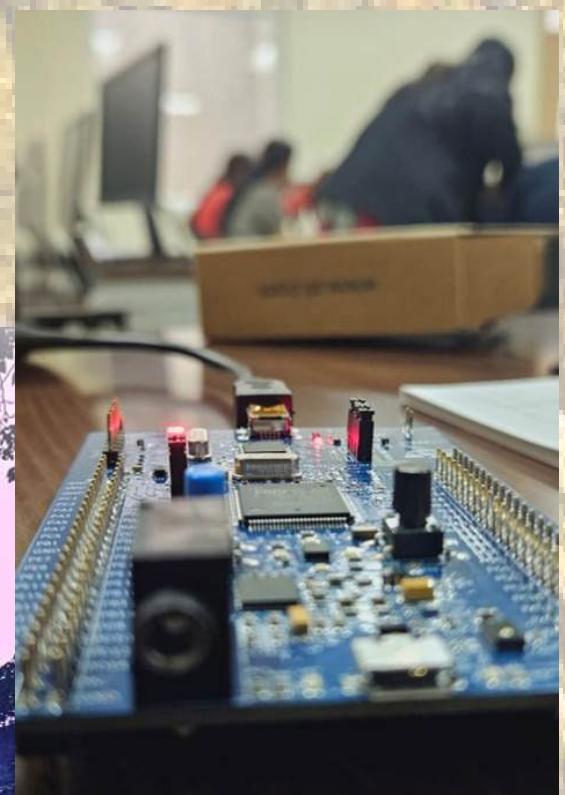


UDAY KIRAN REDDY
(ENG21EC0133)



NAVEEN KUMAR G
ENG21EC0070

RENUKA ANIL SUTAR
ENG22EC0092



ROHIT SANGAM
ENG23EC0025

VINOD GANIGER
ENG22EC0082



MONISHA.M
ENG22EC0038



SAMRUDDHI.NAIK
ENG22EC0052



UDAY KIRAN REDDY G.
ENG21EC0433



SAI INCHARA
ENG21EC0099



SHREERAKSHA M. N.
ENG22EC0061



MOUNIKA G.
ENG22EC0039



RAKSHITA K. M.
ENG23EC0024



RENUKA S
ENG22EC0092



PRATHIKSHA B GUGGARI-
ENG22EC0047



PRAJWAL S. KUNDARGI
ENG21EC0087

LITERARY WORK

Miles Of Affection

Away from each other, where the shadows blend,
Two lives, to where their hearts extend.
Though the distance keeps them physically apart,
Their love to one another remains constant.

During midnights stars and morning light,
They hold each other in their sight.
Their love, which is like waves,
It burns strong as the worldly chains.

In silent nights and noisy days,
They dream and shine in brighter ways.
With all the calls and messages sent,
Their hearts converge where dreams are bent.

She reads his words and feels the rhyme,
Where he counts the days and marks the time.
Their laughter echoes through the space,
Through the bridge of love which cannot erase.

They dream about good and bad,
Every laughter shared and time they have ever had.
Their wish is simple, pure and clear,
To have nearer year after year and forever.

**Uday Kiran Reddy
(ENG21EC0133)**



Amiable Dove

In the midst of the present circumstances either in Gaza or the war between Ukraine And Russia it has become our surmount priority to reflect on our ideology that promotes peace and development. This poem depicts a boy who asks the dove(personification) which is considered as symbol of peace for reason behind the chaos in this world.

A beautiful dove sits on a tree,
Watches down below and finds people flee;
thinks what might have caused this diaspora,
A dichotomy or some defoliation aura.
It then asks a kid running for his life,
Situation begotten for Holding a knife!
He replies that it was due to the institution's bellicose,
Engaging in a belligerent war without a cause.
The bird then asks his amiable companion,
Tells him to be free to express his opinion.
The boy tells that he wants a world full of peace,
AN ecstatic world where the happiness never cease.
A world endowed with prominent leaders,
In preference to competent leaders.
AN INSTITUTION CAPABLE OF LEADING;
NOT A BEWILDERMENT
CHOSSEN OUT OF PEOPLE'S CONSENT,
"An entity imparting justice".
The bird then spreads wide it's wings,
Caressing the world with happiness,
Endowed the land with the gift of peace.
A strong Institution where,
Happiness and peace never cease.

Aarthi Nayak Ullal

Aarthi Nayak Ullal (ENG22EC0001)



Most memorable Summer

The summer that I could never forget;
For you came into my life and rooted out my life's
every ounce of regret;
You held me around your arms under circumstances I
was very naive;
You my love taught me how to thrive;
My innocent heart fluttered at the sound of your
footsteps;
Your presence made me resilient to people's perspectives
Your beautiful eyes conveyed a river of emotions;
They were overflowed with kindness, love and
aspirations;
You were a person full of light;
My love had no hint of fright
Your love made me look myself under new perspective
To always keep people's opinions as an elective
Your companionship made me believe in love
You made me a person that I am now
For I slept on your lap forgetting every pain
As summer begone and it started to rain.

Aarthi Nayak Ullal

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