



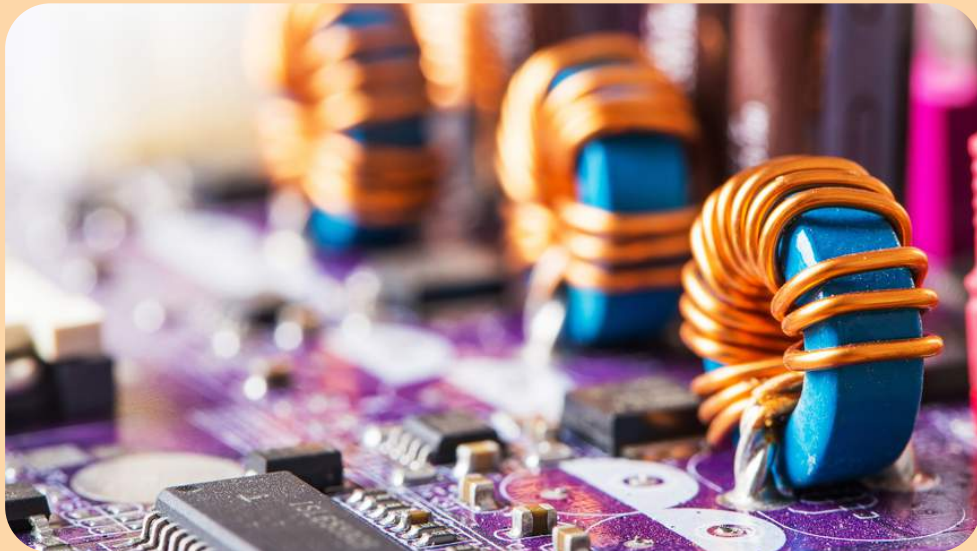
DAYANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING

JULY-DEC 2022

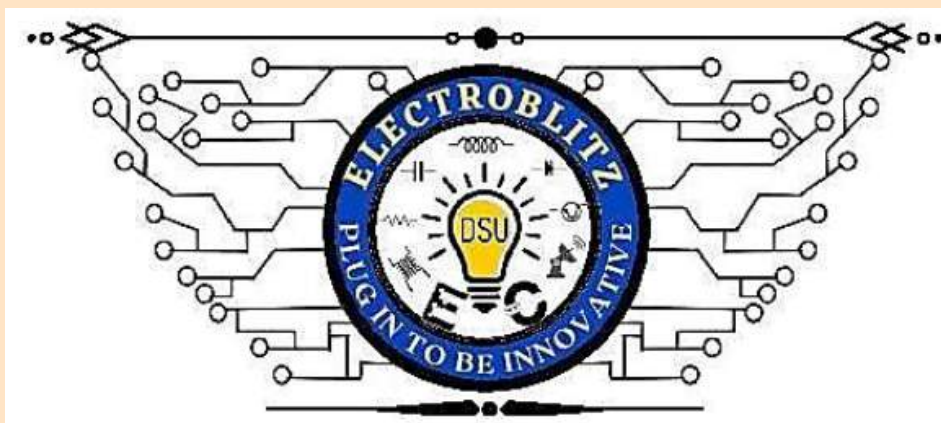
VOLUME 2 | ISSUE 2 | 2022

ELECTRO CLIPS

**THE BIANNUAL NEWSLETTER
OF ELECTRONICS**



PRESENTED BY
ELECTROBLITZ CLUB
DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING





DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

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 and 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.



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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.



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Dr. Uday Kumar Reddy KR
Dean
 School of Engineering,
 Dayananda Sagar University, Bengaluru.

I Am delighted that the Department of Electronics and Communication Engineering is bringing out the newsletter 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 newsletter 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.

Dr. Theodore Chandra
Chairman, Department of ECE

School of Engineering,
 Dayananda Sagar University, Bengaluru



It is with immense pleasure that we present you our Department Newsletter. As Chairman I am hugely impressed by the commitment of the staff in providing an excellent all-round education for our students with our state-of-the-art facilities. We as a team working together, strongly promote the zeal towards academic achievement among our students. The cultural, sports and other success of all our students and staff are also proudly celebrated together. If our ideas are expressed and thoughts kindled, we can be sure of learning, as everything begins with an idea.

This newsletter highlights the department academic activities, student and faculty achievements. It also summarizes the Technical and Non-technical activities conducted as well as participated by the department. This motivates students and faculty to share their views, ideas towards overall development of the department. A variety of Technical Blogs and Literary works gives us the sense of pride that our students and faculties possess creative potential and unique thinking in ample measures.

I applaud the contributors for the stimulated thoughts and varied hues in the articles contributed by them. I extend my thanks to editorial board, student volunteers and all contributors for the success of this newsletter.



DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

DEPARTMENT EVENTS

WEBINAR ON RESEARCH AND PUBLICATION ETHICS

A Webinar was conducted on 9th July 2022. This webinar was conducted by the Dept. Of Electronics and Communication, School of engineering. The resource persons who delivered the talk on the webinar are as follows:

Dr. MADAIH KRISHNAMURTHY - Prof. Indian Statistical Institute, Bangalore.

Dr. SOLAI BASKARAN - IIT DELHI, PhD.
Ms. SNEHA BHARTI - PhD. Indian Statistical Institute, Bangalore.

The talk began after the inauguration at 10:00AM and the sessions went on till 4:00PM In the afternoon. The talks were attended by various students of UG PG , Research Scholars and faculties. the information of the talks was derived in an intellectual method. The talk was organized and coordinated by Dr. Rajashree Narendra and Dr. Saara k from the Department of Electronics and Communication Engineering.

Dayananda Sagar University Bengaluru

Research Cell
Post-Graduate Programs in Management
Dept. of ECE, School of Engineering
Saturday, July 9, 2022

Inauguration: 9:30 AM to 10:00 AM
Session 1: 10:00 AM - 12:00 PM
Session 2: 1:00 PM - 2:30 PM
Session 3: 2:30 PM - 4:00 PM

RESOURCE PERSONS:

Dr. Madaiah Krishnamurthy
Dr. Madaiah Krishnamurthy is Assoc. Prof., of Info. Science at the Documentation Research and Training Center, Indian Statistical Institute, Bangalore. He was Awarded Fulbright Fellowship to carry out research at University of Illinois, USA. His areas of specialization are Applications of ICT, Digital Library, Institutional Repository, Open Access Publishing.

Dr. Solai Baskaran
Prof. Solai Baskaran has completed his PhD from IIT Delhi. He has obtained LLB degree and is a professionally qualified lawyer. He has spent close to two decades in corporate as COO/Director in operations / HR. Prof. Baskaran has over 10 years of teaching management in MBA programs. He has been guiding many PhD scholars. He has travelled globally and undertaken various MDP and consultancy assignments.

Ms. Sneha Bharti
Ms. Sneha Bharti, a native of Jharkhand is currently pursuing PhD under the guidance of Dr. M. Krishnamurthy, DRTC, Indian Statistical Institute, Bangalore. She has completed Bachelor's in Management Studies from the University of Mumbai in 2016 and her Masters of Science in Library and Information Science from DRTC, ISI Bangalore in 2018. In 2020, she has joined DRTC as a research scholar and her area of study is "Digital Language Archiving."

Dr. K. N. B. Murthy
Vice Chancellor
Dr. M. K. Banga
Dean, Research
Dr. A. Srinivas
Dean, SoE

Dr. Puttamadappa C.
Registrar
Prof. (CAPT.) A. Nagaraj Subbarao
Dean, PG Programs in Management
Dr. Vaibhav Meshram
Chairman-ECE

Dr. Rajashree Narendra
Professor, ECE, SoE, DSU
984446824,
rajaashree-ec@dsu.edu.in
Dr. Saara K
Assoc. Prof., ECE, SoE, DSU
9620461641,
saara-ec@dsu.edu.in

WEBINAR HIGHLIGHTS:
TOPICS OF DISCUSSION
PUBLICATION ETHICS
SCIENTIFIC CONDUCT
INDEXING AND CITATION DATABASES
OPEN ACCESS PUBLISHING
RESEARCH METRICS AND SOFTWARE TOOLS

Kindly REGISTER for the WEBINAR
<https://docs.google.com/forms/d/e/1FAIpQL5f51Z7I57NypVNOjCaxDDW7GvNM4GJ90b5gMMLH4NAD7tqUng/viewform>

ZOOM MEETING
Topic: Webinar on RPE
Time: Jul 9, 2022 09:30 AM India
Join Zoom Meeting
<https://zoom.us/j/9060841464>
Meeting ID: 906 084 1464
Join by Skype for Business
<https://zoom.us/skype/9060841464>

An Intellectual is a man who takes more words.

Than necessary to tell more than he knows.

-Dwight D Eisenhower



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DEPARTMENT EVENTS

AWARENESS VISIT ON HIGHER EDUCATION OPPORTUNITIES

The Department of Electronics and Communication Engineering organized a visit to St. Mary Crescent English School, Begur as an NSS activity on 16th July 2020. This visit mainly focused on creating awareness among the students of class X in the school, about the higher educational opportunities and the newly updated national educational policy 2020.

As the students of class X are reaching the first turning point in their lives, this awareness program helped the students to broaden their minds on educational opportunities for higher studies in the country as well as abroad. The New NEP is based on the four pillars of Access, Equity, Quality and Accountability. This detailed educational policy was explained briefly to the students and hence preparing them, for a better and bright future ahead of them.

This awareness visit was coordinated by Dr. Vaibhav Mesharam and Dr. S Sivaramkrishnan along with Prof Kokila. The faculty also guided and advised the students on the upcoming board exams and provided them with appropriate methodologies to ace the exams.



**Vision for which a youth is known. He is never lone.
He lives with his ideas and passion.
His single thought can change the outlook of a nation.**



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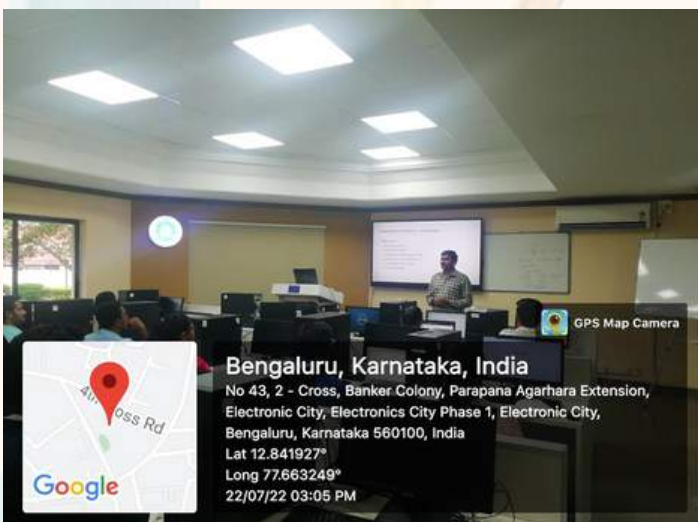
DEPARTMENT EVENTS

CDAC VISIT

The Department of Electronics and Communication engineering organised a visit to the CDAC PARAM Utkarsh HPC system from the Dept. Of Electronics and Communication, on 22nd July 2022. The faculty that represented our department were Dr. Pushpamala S and Dr. Sivaramakrishnan S.

The faculty also delivered a talk with a supporting demo on the topic **"Imaging Prognosis and Digital Twin model for particle pollutant estimation in the ML/DL application enablement on PARAM Utkarsh HPC System"**. This demo and talk was delivered in this workshop held at CDAC Bengaluru.

This talk focused and emphasized on the detection of pollutants using the concept of digital image processing and then its integration with machine language to obtain the prognosis of an analyzed sample of pollutant.



"In the long term Artificial intelligence and automation are going to be taking over so much of what gives humans a feeling of purpose"

-Matt Bellamy



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DEPARTMENT EVENTS

WORLD NATURE CONSERVATION DAY

An NSS Activity was organized to the Harohalli village, near Kanakapura from the Department of Electronics and Communication Engineering on 28th July 2022. 6 faculty members accompanied by 10 students of the department were part of this NSS activity.

This visit was to Mr. Raju's farm in the village. He took his valuable time in explaining and demonstrating his techniques on farming, poultry and dairy management. The students also had a hands on session with the farmers in growing some Seasonal crops. They were also fortunate enough to witness the process of sowing Ragi seeds in the farm.

The students were able to witness the hardships faced by the farmers, and understood the time taken for farmers to put grain on our plates. The faculty members who accompanied the students were Prof. Puneeth S, Prof. Nandini Rao G, Dr. Sneha Sharma, Prof. Shwetha MP, Prof. Kokila S and Dr. S Sivaramakrishnan. The world nature conservation day was celebrated in an informative and innovative manner by the department.



**"The proper use of science is not to conquer nature
but to live in it"**

-Barry Commoner



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DEPARTMENT EVENTS

VISIT TO SHREE RAMANA MAHARSHI ACADEMY FOR THE BLIND

A team of 10 students and 6 faculty from Department Of Electronics and Communication, School of Engineering had visited Shree Ramana Maharishi Academy for the Blind on 28th July 2022. The department donated essentials to the academy.

The faculty members motivated them by organizing various Cultural events and Extra-curricular activities making the visit enjoyable to them. The faculty encouraged all the students there to become a successful person in the future and to not think of their disability as a bane.

The Faculty that visited the Academy were: Prof. Puneeth S, Prof. Nandini Rao G, Dr. Sneha Sharma, Prof. Shwetha MP, Prof. Kokila S and Dr. S Sivaramakrishnan.



"Your present circumstances don't determine where you can go they merely determine where you start."

-Nido Qubein



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DEPARTMENT EVENTS

MoU BETWEEN ECE DEPARTMENT AND ULTRATECHSONIC SOLUTIONS

An MoU has been signed between the Department of Electronics and Communication, SOE, DSU and UltratechSonic Solutions on 29/08/2022. UltratechSonic Solutions is a manufacturing and marketing organization in the field of Ultrasonic equipment having a large customer base in South India with wide range of industries that use Ultrasonic applications like Plastic Welding, Cleaning Machines, Sewing Machines, Special Purpose Machines.

Dayananda Sagar University (DSU), Bangalore and UltratechSonic Solutions Ltd., Bangalore have agreed to collaborate in the areas of academic and research related activities, in the interest of establishing a relationship of mutual benefit to both organizations. This MoU will provide facilities for enhancing skills of students/aspirants through research experiments, workshops, training programs in order to enhance the quality of Technical and Engineering education in the Country. Ultrasonic welding machine and Ultrasonic Sealing machine specifically have been provided to Dayananda Sagar University for carrying out research activities for a period of one year which is likely to get extended based upon effective utilization of the machines.





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DEPARTMENT EVENTS

VALUE ADDED PROGRAM ON MATLAB

The Department of Electronics and Communication Engineering had organized a Value-added Program on "MATLAB for Engineers" for 5th-semester students of ECE. The program was conducted in support of CoreEL Technologies and MathWorks.

The course provided a comprehensive introduction to the MATLAB technical computing environment. The use of MATLAB in the latest technological advancements like IoT, Machine Learning & Deep Learning was also discussed. The course was structured to allow the thorough assimilation of ideas through hands-on examples and exercises. MATLAB competency is developed in a natural way, with an integrated learning process of both theoretical and practical methodologies.

This Program was organized and coordinated by Prof. Anna Merine George and Prof. Abhinav Karan S, from the Dept. Of Electronics and Communication.





DAYANANDA SAGAR UNIVERSITY

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DEPARTMENT EVENTS

MODEL EXHIBITION

A Model Exhibition on probability theory and stochastic processes was held for the 5th semester students of Department of Electronics and Communication Engineering on 15th November 2022. This exhibition helped the students in connecting the concepts and ideologies of probability with real time applications, and portraying their ideas of the same, in the form of a mathematical model.

The model presentation required the students to choose a research paper on the subject and analyze its probabilistic approach and then implement the same idea in a self made version of the model. The students were advised to team up in groups of three to four members, to develop the approach to a project as a team and portraying the collective ideas in one single model form.

Models were not restricted to any particular type, and this also helped in bringing the creative side of the young nurturing minds. This event was conducted and coordinated by the subject coordinator Prof. Nandini Rao G, Dr. Theodore Chandra, Chairman of Dept. Of Electronics and Communication addressed the students about the importance of project modeling and exhibitions in developing a strong portfolio for a bright future. This model exhibition brought out the standalone points of teamwork and holistic approach towards an idea.



**"A theory has only the alternative of being right or wrong.
A model has a third possibility of being right, but irrelevant"**
- Manfred Eigen



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DEPARTMENT EVENTS

MINI PROJECT EXHIBITION

The Department of Electronics and Communication Engineering had organized a Mini project exhibition on 9th December 2022, for the students of 5th semester ECE. The Exhibit was organized by Prof. Navya R and Dr. Saara K.

The students were given the option to choose projects of their own choice and Interest, they were asked to team up in three or four members and present a report, video and working model of their project. The projects mainly focused on sensor interfacing and microcontroller programming. These concepts posed a heavy challenge to students and the evaluation was done based on the innovative way of approach towards their problem statement. This exhibition helped the students to collectively integrate theoretical knowledge and implement them in practical platforms such as "ARDUINO" to get a working model of their projects.



"The studio is a Laboratory not a factory, an exhibition is the result of your experiments, but the process is never ending, so an exhibition is not a conclusion."

-Chris Odili



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DEPARTMENT EVENTS

IEEE CENTCON 2022

Second International Conference on Disruptive Technologies for Multidisciplinary Research & Applications

The Department of Electronics and Communication Engineering, Dayananda Sagar University, Bengaluru organized the Second IEEE international Conference on Disruptive Technologies for Multidisciplinary Research and Applications from 22nd December, 2022 to 24th December, 2022. This conference was a forum for presenting of ideas, learning new technologies, building networks, learning the unlearned and contributing to the body of knowledge. This flagship conference featured accomplished keynote speakers such as Dr V K Hariharan , Former Deputy Director, UR Rao Satellite Centre, ISRO, Bengaluru who gave insight about the journey of ISRO and its accomplishments ; Dr. Aloknath De Cyber-Physical Systems Expert, Tech-Biz Consulting for Innovation and Impact who briefed about all the new technologies which is taking over the world like IOT , 5G , blockchain technologies and S D Sudarsan ,Executive Director at CDAC-Bengaluru spoke about the significance of interdisciplinary technologies in the modern day world.





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It also had other notable speakers like Dr. Anish Cheriyan Sr. Director, Harman Automotive; Vamsi Modadugu Sr Director Apps SW, SBU Digital Cockpit, Harman International Pvt Ltd; Reena Dayal Chairperson of the Board and CEO, Quantum Ecosystems and Technology Council of India; Dr.-Ing. Julian Polte, Head of Chair Machine Tools and Technologies for Additive Manufacturing of Precise Metallic Components, Technische Universität Berlin ; Subodh Gajare Principal Architect for Digitization in Service Provider Enterprise IoT AIML Security .

The conference was technically Co-Sponsored by IEEE Bangalore Section. The proceeding of the conference will be available on IEEE Xplore.





DAYANANDA SAGAR UNIVERSITY SCHOOL OF ENGINEERING

DEPARTMENT EVENTS

NAVARATRI 2022





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ELECTROBLITZ CLUB

ABOUT 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 the technical skills and personality development of the student apart from academics.

VISION

To enrich the creative young minds in learning, leading and living effectively in the advanced global society by providing collaborative platform for innovative programs and celebration of traditional values.

MISSION

- To align all interested students, club facilitate students to interact with alumni and professionals in their fields of interest.
- To enrich student's experience, create a diverse community, encourage, and provide opportunities for students to build valuable skills.
- To bring out the hidden potential of students apart from academics, in order to adopt themselves to the challenges in the current scenario running in the field of electronics/interdisciplinary Spectrum.



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ELECTROBLITZ CLUB ACTIVITIES

GANESHA CLAY MODELING

ELECTROBLITZ CLUB in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University conducted the event 'GANESHA CLAY MODELING' on 02nd September 2022 from 01:00 PM to 04:30 PM On-Campus. The contest had totally 9 teams participating. The participants were asked to get their own material for making the model on the spot within the stipulated time. This event was organized to celebrate the upcoming festival of Ganesh Chaturthi. The clay models were exquisitely made and decorated by the participants. The models were then exhibited at the Teacher's Day special event.

The Judges Of The Event: Dr. Gayathri K M, Associate Professor, Dept. Of ECE.

Winners:

Lingareddy Gari Kavyanjali - DEPT. OF CS

Madhumohan R - DEPT. OF CS

Runners Up:

Shankar PS - DEPT. OF AEROSPACE

Srinidhi K - DEPT. OF AEROSPACE

Kunal D - DEPT. OF AEROSPACE

Sunil G - DEPT. OF AEROSPACE





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ELECTROBLITZ CLUB ACTIVITIES

PENCIL SKETCHING COMPETITION

ELECTROBLITZ CLUB in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University conducted the event 'PENCIL SKETCHING COMPETITION' on 02nd September 2022 from morning 11:00 AM to noon 01:00 PM On-Campus. The contest had 13 participants and it was an individual event with the theme as "KRISHNA JANMASHTAMI". The artists showed exquisite precision and accuracy in developing their portraits.

Judge of event : Mrs. Manasa K R, Assistant Professor, Dept. OF ECE.

WINNER: Lakshmi L - Dept. OF CS

1st RUNNER: Gagandeep K - Dept. OF CS

2nd RUNNER: Janani B - Dept. OF CS





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ELECTROBLITZ CLUB ACTIVITIES

ORIGAMI

ELECTROBLITZ CLUB in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University conducted the event 'ORIGAMI' on 01st September 2022 from 03:00 PM to 04:30 PM On-Campus. We had 08 participants registered and it was an individual event. The participants showed their creativity in art and craft, beyond expectations.

Judge Of The Event: Mrs. Kanmani B S, Associate Professor, Dept. Of ECE

WINNER: Diya Sujil - Dept. OF CS





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ELECTROBLITZ CLUB ACTIVITIES

TEACHERS DAY SPECIAL PROGRAM

"TEACHERS DAY SPECIAL PROGRAM" was conducted on 7th September 2022 on the campus. It was conducted in collaboration with the CST Department and ELECTROBLITZ CLUB in association with the Department Of Electronics and Communication engineering.

This event was to honor and recognize **Dr. Sarvepalli Radhakrishnan**, the greatest teacher and scholar of India. To celebrate his work and his drive for education. The Chief Guest of the event were Dr. SS PRABHU, Former Professor IIT Kanpur and IIT Bangalore and Dr. KNB MURTHY, Vice Chancellor of DSU. It was a pleasure for students to listen to motivational and intellectual speech from DR.SS Prabhu. The Unveiling of the newsletters of all Departments were also a part of this special program.

The prizes of ORIGAMI, PENCIL SKETCHING AND GANESHA CLAY MODELING were distributed at TEACHERS DAY SPECIAL PROGRAM .





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ELECTROBLITZ CLUB ACTIVITIES

TECHNICAL COLLAGE

ELECTROBLITZ CLUB in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University conducted the event 'Technical Collage' on 24th September 2022 from 11:00 AM to 12:30 PM On-Campus and was conducted in multiple verses. The theme given for the collage was 'Industry 4.0', 'Semiconductor shortage', 'Ai/ML', 'IIOT'.

,There were 20 participants who took part in the event. On spot registrations were encouraged too. The participants were asked to assemble at the venue by 10:45 AM.

The event was overseen by the club heads and the executive members of the club. All the participants showed great efforts and cooperation. The main aim of the event was to test their creativity skills, which was exclusively portrayed by them. Participants had one and half hour to work on their selected themes as shown below. The judge evaluated their collages on the basis of title/tagline, relevance to the topic of collage. This event mainly focused on portraying their collectivity and representation skills.

WINNERS:

Sharon Zachariah -First Year, Dept of CSE.

RUNNERS:

B Dhivya - First Year, Dept of CST.

Hifza ahmed- First Year, Dept of DS.





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ELECTROBLITZ CLUB ACTIVITIES

TECHNICAL QUIZ

ELECTROBLITZ CLUB in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University conducted the event 'TECHNICAL QUIZ' on 09th September 2022 from 11:00 AM to 01:00 PM On-Campus.

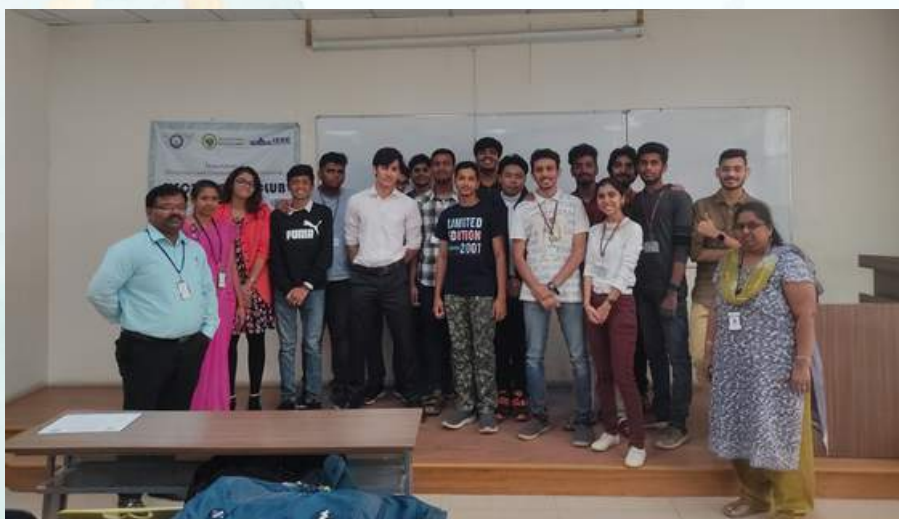
This event took place in 4 rounds namely General quiz round, Buzzer round, Rapid Fire and Technical Quiz. The main aim of the event was to test technical knowledge of the students which was done in the Final Technical Quiz round. To filter out the teams to last round, first three rounds were conducted with some general and basic technical questions, The enthusiastic participants made the event more competitive and tough.

WINNERS:

Divyanshu - Third Year, Dept of ECE.

Pavan B N - Third Year, Dept of ECE.

Shreyas S N - Third Year, Dept of ECE.





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ELECTROBLITZ CLUB ACTIVITIES

ROBO WARS

ELECTROBLITZ CLUB in association with the Department of Electronics and Communication Engineering, Dayananda Sagar University conducted the event 'ROBO WARS' on 21st December 2022 from 11:00 AM to 01:00 PM On-Campus. The hosts of the event were Mr. Priyanshu Singh (President), Mr. V Mageshwaran (Vice President), Ms. Sahana DM (Treasurer) and Mr. Pavan HD (Secretary).

We had 20 teams of 3-5 members in each team approximately 100 participants. The participants were asked to assemble by 12:00 PM.

The event was overseen by the club heads and the executive members of the club. All the participants showed great efforts and cooperation. The main aim of the event was to test their creativity skills, which was exclusively portrayed by them. The challenges given to the students to build their bots were overcome very smartly, The track was designed in such a way so as to test the bots to their full potential.





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The track consisted of bridges, ramps, rotating barriers, hanging bridge, obstacles such as dodgers, sand, gravel, water, grease, oil and glass. The bots after crossing these obstacles from their designated tracks, reached the main arena where the main battle between the two bots took place.

The bots were given options of both attack and defense of their own choices. Bots were of different forms and sizes and some bots took everyone by surprise.

The pairing of the battle was done on a chit pick basis, which led to an unbiased selection for the battle.

This event was mainly conducted to inculcate the concept of collective thinking and teamwork among each other, the major population of the event being 1st year students, learnt a lot from the event. The event went on for a whopping 6-7 hours in total and ended with a blast.

WINNERS:

Madhusudhan - Third Year, Dept of ECE.

Bhargava R - Third Year, Dept of ECE.

RUNNERS:

Divyanshu K - Third Year, Dept of ECE.

Pavan B N - Third Year, Dept of ECE.

Shreyas S N - Third Year, Dept of ECE.





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STUDENTS ACHIEVEMENTS

FINAL YEAR PROJECT (AUGUST 2021-2022)

A final year project guided by Dr. Pushpamala S was selected for 45th series of student project programme 2021-22, the state level project exhibition at the VTU Belagavi in August 2022. The students of the team were Lara J, Ili Sandhya, Nikitha B Jalihal, Shilpa DP. The project Selected for the expo was "Design and Experimentation of a Low-cost Exertion Gauntlet for Lymphedema".



Ms. Ili Sandhya



Ms. Shilpa DP

The students of Dept. of Electronics and Communication have represented the Institution in the National level Volley ball Tournament organized by SRM Institute of Science and Technology, Tamil Nadu. The students who participated were N. Jhenkar, N. Madhu Kumar, A. Sushil Kumar.



A promotional poster for the SRM Spikers Volleyball - Men Tournament. The poster features the SRM Institute of Science and Technology logo at the top left, the text 'SOUTH ZONE INTER UNIVERSITY VOLLEYBALL - MEN TOURNAMENT -2022-23', and the '75 Azadi Ka Amrit Mahotsav' logo. The central graphic is a large blue and white circular emblem with a tree and the text 'SRM SPOKERS'. At the bottom, it states 'ORGANIZED BY DIRECTORATE OF SPORTS SRM INSTITUTE OF SCIENCE & TECHNOLOGY TAMILNADU' and provides the date 'DATE: 23RD TO 27TH DECEMBER 2022' and venue 'VENUE: SRMIST, KATTANKULATHUR'. Social media icons for Instagram, Facebook, and Twitter are also present, along with the website 'directorateofsportssrmistktr'.



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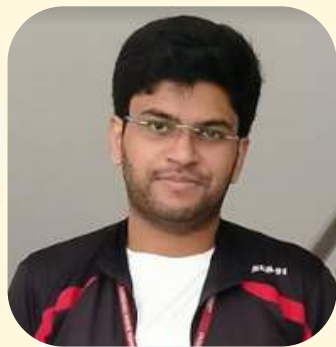
ALUMNI ACHIEVEMENTS

LARA J, ECE Alumni has been granted with an opportunity for a Double degree program in Embedded Systems at the University Of Applied Sciences, Bremerhaven, Germany.



Ms. Lara J

INDRANEEL MUKHERJEE, ECE Alumni has been accepted into the University of Nottingham, United Kingdom. for Masters in Electronics Communication and Computer Engineering. The university has been ranked 114th in QS world ranking 2023. Currently working as Automation Engineer at Amossys Digital Private Limited. First project was to develop and commission Torpedo Heating Station at G Blast Furnace of TATA Steel Jamshedpur. Responsible for developing logics in Total Integrated Automation (TIA Portal) for Step-7 1500 Programmable Logic Controllers and commissioning it completely, where it was appreciated by TATA Steel Jamshedpur.



Mr. Indraneel Mukherjee

DILEEP, ECE Alumni has been working at ARF Design Ltd Pvt Company, for the designation of Analog layout & STD cell layout Engineer 2.



Mr. Dileep U

AKASH SURESH, ECE Alumni has been recognized as a Design Engineer. After getting a job at Genser Aerospace as a Design Engineer, he was assigned to work with Electrical and Avionics Systems for a business jet. In doing so, he developed his skills and was able to design a cockpit for the aircraft. This design will be presented at Aero India 2023 held in the month of February 2023. The design was made referring other aircrafts of this type and global industrial standards such as FAR23, DO160 etc. He has been accepted into the University of Windsor, Canada to pursue his masters in Electrical and Computer Engineering. The university has been recognized as the 25th top global university in Canada by the QS World University Rankings (Top Global Universities) 2023.



Mr. Akash Suresh



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FACULTY ACHIEVEMENTS



Prof. Abhinav Karan S
Assistant Professor

A training Session was conducted by Prof. Abhinav Karan S at HARMAN INTERNATIONAL on the Field of Automotive Embedded and IoT Protocols management. The session was attended by 20 members and his expertise was duly shared with the attendees.

Prof. Nandini Rao G has been selected for part-time PhD at NIT, Calicut in the research field of "MIMO COMMUNICATION".



Prof. Nandini G Rao
Assistant Professor



Dr. Pushpa Mala S
Associate Professor

Dr. Pushpa Mala S has successfully guided and mentored Mr. Vinay BK, Department of Electronics and Communication Engineering in his PhD research on his thesis of " Power Aware Asynchronous Strategies for GALS Systems".

Dr. Vaibhav A Mesharam has successfully guided and mentored Mr. MK Nishanth Rao, Department of Electronics and Communication Engineering on his Ph. D thesis entitled "Bandwidth Improvement Modeling and Optimization of Antenna Array for IoT Applications"



Dr. Vaibhav A Mesharam
Professor, Department of ECE



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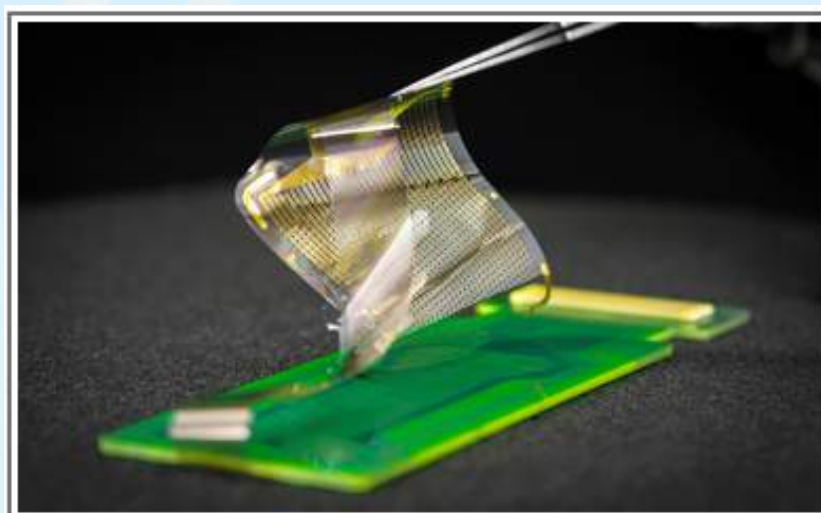
SCHOOL OF ENGINEERING

TECHNICAL BLOGS

NANOELECTRONICS AND ITS ENDLESS POSSIBILITIES

Spoiler Alert! Did you know nanosized gold is red? If not, then google it now and be amazed. At the nanoscale, matter can display remarkable physical, chemical, and biological characteristics distinct from those of bulk materials, individual atoms, and molecules. Compared to other shapes or sizes of the same material, some nanostructured materials are stronger or exhibit distinct magnetic characteristics. Others are more adept at transferring electricity or heat. As their size or structure changes, they may become more chemically reactive, reflect light more effectively, or change color. Any material's bulk characteristics are the average of all the quantum forces acting on individual atoms. When you get to a certain size, averaging stops working, and you must deal with the unique behavior of individual atoms or molecules, which might be significantly different from how these atoms behave when combined into a bulk substance. Nanotechnology can be defined as the art of controlling matter at the nanoscale, it involves understanding, tuning, and utilizing the unique properties of the nanosized matter.

Nanotechnology is revolutionizing various fields like Healthcare (from diagnostic to therapeutic protocols), Energy (from production to storage), Agriculture (from accurate soil treatment to detection of diseases), Environmental Remediation (from clean water to membrane for pollutant filters), Electronics and IT Applications (from transistors to foldable devices), and everyday fabric to lightweight airplanes.



A new array of brain **nano-sensors** can record electrical signals directly from the surface of the human brain in record-breaking detail.
Credit: David Baillot/UC San Diego Jacobs School of Engineering.



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TECHNICAL BLOGS

The combination of nanotechnology and electronics has led to “Nanoelectronics”. Major advancements in computing and electronics have been tremendously aided by nanotechnology, resulting in quicker, more compact, and portable systems that can handle and store ever-increasing volumes of data. Thanks to nanotechnology, transistors which are the building blocks of modern computers and electronics are getting smaller and smaller. Scientists from Lawrence Berkeley National Lab have developed a transistor with a 1-nanometer (nm) gate. Fed-up with the slow booting of your computer? Don't worry, soon computers will boot instantaneously using magnetic random-access memory (MRAM) enabled by nanosized magnetic tunnel junctions. Looking at a blur mobile screen overpowered by sunlight? Don't worry quantum dot (nanocrystals) displays are here to solve your problem. They have peak brightness levels as high as 4,000 nits, which is enough to overpower the glare of direct sunlight. Are you fancying a foldable phone? It is enabled by flexible electronics using semiconductor nanomembranes. How do you fuse electronic components now? If you say lead-based solder, then the answer is no! Nanoparticle copper suspensions have been developed as a harmless, inexpensive, and reliable alternative.

These are just a few examples of the application of nanoelectronics. "There's Plenty of Room at the Bottom: An Invitation to Enter a New Field of Physics" was a lecture given by physicist Richard Feynman at the annual American Physical Society meeting at Caltech on December 29, 1959. It is so true! If you control matter at the atomic scale, the possibilities are endless.



Dr. BM Ashwin Desai

Associate Professor

Department of ECE

School of Engineering

Dayananda Sagar University

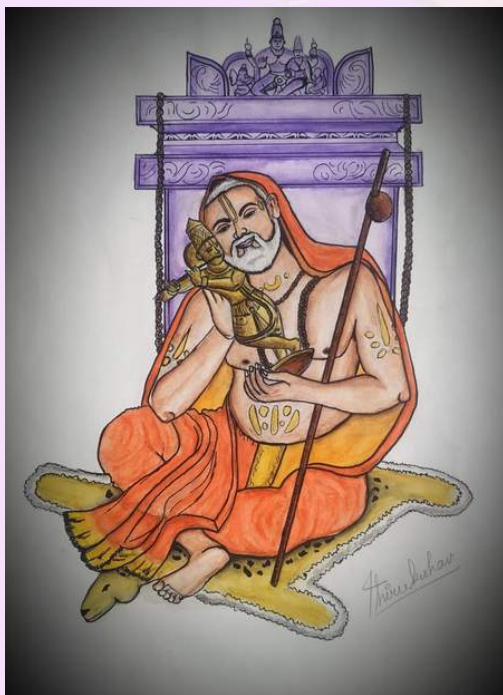


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ART WORKS

Thirumalesh K
6th SEM ECE





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ART WORKS



Punith V
6th SEM ECE





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ART WORKS

Pavan BN
6th SEM ECE

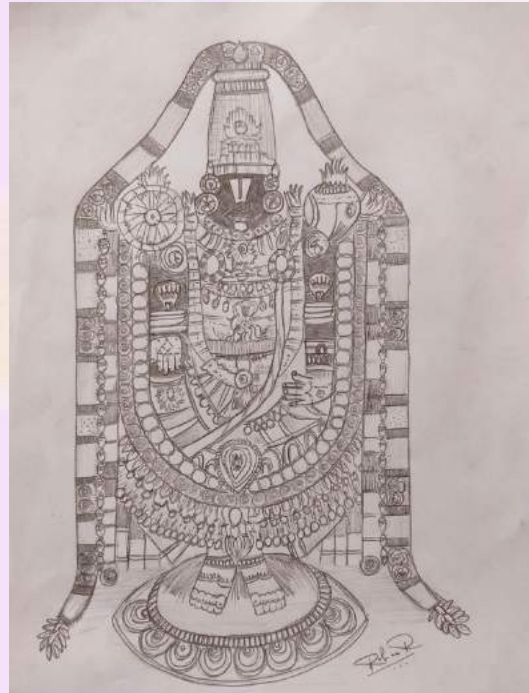
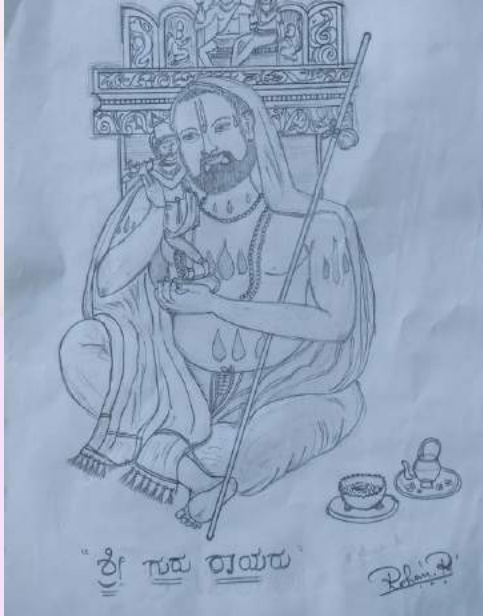




DAYANANDA SAGAR UNIVERSITY SCHOOL OF ENGINEERING

ART WORKS

Rohan R
6th SEM ECE





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LITERATURE WORKS

Behind The Smile Of Our Teachers

Behind the smile of our teachers

**There is so much unsaid
Not even their shadow
Says the saga of their steps**

**All the tears of challenges
They prefer not to shed
Only those of joy
Flows down their eyes**

**It isn't easy to be a Teacher
Not until there is the spirit of sacrifice
All of them, without an exemption
Live it, as evident as the shining sky**

**They face our questions
As well as our Parents'!
B'cos beyond the book they care
for the welfare of their Student!**

**It is not just a job
But the making of our life
It is not just a task
But they are here for us, at our desk!**

**Their life is to sail us safe
To make us fare so well
Putting everything behind
They are here to take us ahead**

**This day is not just to thank
But to comprehend
Where we stand as a student
Are we worthy for their kind!**

**It makes no difference to them
They keep giving and forgiving
But if we take it all for granted
Forever we would stay behind**

**We are here as the darlings
Of our parents family friends
We are nurtured by our teachers
With the patience, Only they know
best**

Friends,

**Let us not harbour any thought
That keeps us away from them
It's time to pause and ponder
How can we give them some rest?**

**We get our graduation
For writing in our exams
But, a day full of gratitude
Guides us all along**

**Let us salute our Teachers
From the depth of our heart
Let us bow down before them
For every drop of their sweat**

For,

**Behind the smile of our teachers
There is so much unsaid
Not even their shadow
Says the saga of their steps**

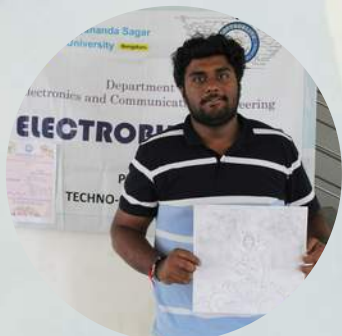


Meenakshi
6th SEM ECE



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PHOTO GALLERY





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PHOTO GALLERY





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PHOTO GALLERY





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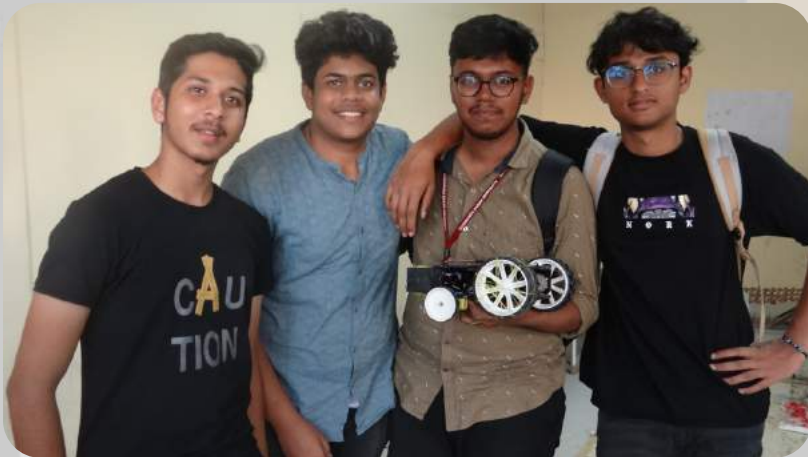
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PHOTO GALLERY





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ECE FACULTY

Dr. Puttamadappa C
Professor and Registrar



Dr. Theodore Chandra S
Associate Professor
and Chairman



Dr. Pushpa P.V
Professor



Dr. Rupam Bhaduri
Professor



Dr. S. Arungalai Vendan
Professor



Dr. Saara Khamar
Associate Professor



Dr. Pushpa Mala S
Associate Professor



Dr. Gayathri K M
Associate Professor



Dr. B M Ashwin Desai
Associate Professor



Dr. Sneha Sharma
Assistant Professor



Dr. Bhawani Patnaik
Assistant Professor



Mr. Abhinav Karan
Assistant Professor





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Mrs. Mukti Chaturvedi
Assistant Professor



Mrs. Kanmani B S
Assistant Professor



Mrs. Kokila.S
Assistant Professor



Mrs. Manasa K R
Assistant Professor



Mrs. Anna Merine
George
Assistant Professor



Mrs. Devikarani H S
Assistant Professor



Mrs. Navya R
Assistant Professor



Mrs. Divyashree H B
Assistant Professor



Mrs. Nandini Rao G
Assistant Professor



Mr. Sharanabasavaraj
Assistant Professor



Mr. Puneeth S
Assistant Professor



Mrs. Shwetha M P
Assistant Professor





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**Mrs. Jaishree
Ramadevaru**
Assistant Professor



Dr. Godfrey D
Assistant Professor



Dr. Supraja Eduru
Assistant Professor



Mr. Nadeem pasha
Assistant Professor



Mrs. S S Sivasankari
Assistant Professor



NON-TEACHING STAFF

Mrs. Swetha Ningaiah G
Lab Instructor



Mrs. Chaitra Bhavana
Lab Instructor



Mr. Karthik
Lab Instructor



EDITORIAL TEAM

"Knowledge will give you power, but character brings respect."

Ms. SAHANA D M



"With Great Power comes Great Responsibility"

Mr. MAGESHWARAN V



"Learn from yesterday, live for today and hope for tomorrow."

Mr. PAVAN H D



"What you do has a greater impact than what you say"

Mr. PRIYANSHU SINGH



FACULTY COORDINATORS



Dr. GAYATHRI K M



Prof. KANMANI B S



Prof. MANASA K R