DAYANANDA SAGAR UNIVERSITY

SCHOOL OF ENGINEERING

ELECTRO CLIPS

THE BIANNUAL NEWSLETTER OF ELECTRONICS

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PRESENTED BY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

BY

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.

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.

Dr. A Srinivas
Dean
School of Engineering,
Dayananda Sagar University, Bengaluru.

It is very heartening to learn that the ECE department of DSU is producing the biannual newsletter. It is extremely important for any growing system to document the achievements and events undertaken on a regular basis. This will facilitate introspection and to evolve strategies for continuous improvement in the quality of activities conducted. This newsletter publication will bring visibility to the activities being done and it also fosters collaboration between institutions. I compliment the ECE department and specially, the committee in-charge of this newsletter for bringing out the edition in such a brief time. Looking at the enthusiasm of the committee members, I am very sure the newsletter will see continuous improvement in terms of the quality of the events and the presentation. I wish ECE department the absolute best in their journey towards excellence.

Dr. Vaibhav A Meshram
Chairman, Department of ECE
School of Engineering,
Dayananda Sagar University, Bengaluru

It is with immense pleasure that I welcome you to 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 believed to be a focus of internal activities of the department. It highlights the academics, 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. Wide spectrum of articles 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 an all contributors for the success of this newsletter.

Guest Lecture on Energy Audit & Digitization

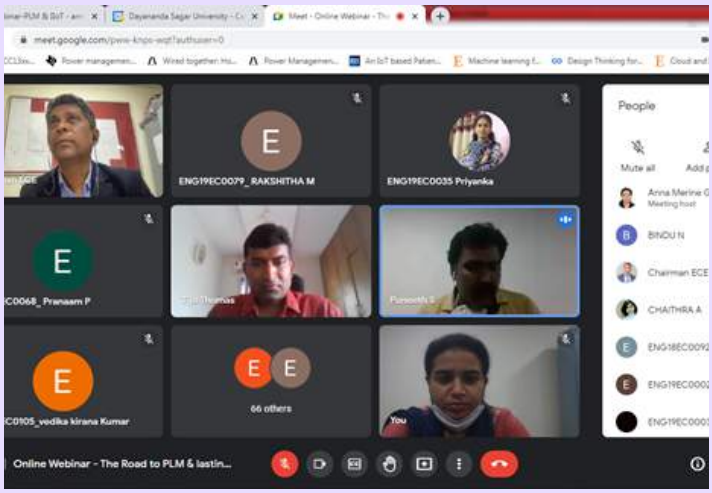
The Department of Electronics & Communication Engineering, School of Engineering, DSU organized an online Guest Lecture on "Energy Audit & Digitization" on 29th January 2022, for the first-year students. Mr. Sridhar Shenoy, General Manager - Energy & Sustainability Services, Schneider Electric, Bengaluru, and his associates were the speakers for the event. There were around 280 participants.

Highlights of the Lecture includes:

- Significance of Energy Audits from an industry perspective.
- Significance of Energy Digitization in today's world - The technologies that will be used 4 years down the lane.
- Live Demo of Energy Digitization using a Software.
- Skill development programme highlighting the industry requirements and training programmes available for students.

Online webinar on "The road to product life cycle management & lasting impact on Industrial IOT"

The Department of Electronics and Communication Engineering, Dayananda Sagar University, Bengaluru organized an online webinar on "The Road to Product Lifecycle Management and Lasting Impact on Industrial IoT" on 30th March 2022. Mr. Tijo Thomas, Senior Business Analyst, PLM, TE Connectivity, Bengaluru was the speaker for the event. Around 80 students participated in the session.



An FDP on "Industry 4.0" was Jointly organized by Mechanical Engineering, Electronics and Communication Engineering and Centre of Competence for Industrial Automation Technologies In Collaboration with Bosch Rexroth, Bangalore on 20th and 21st January 2022.

DEPARTMENT EVENTS

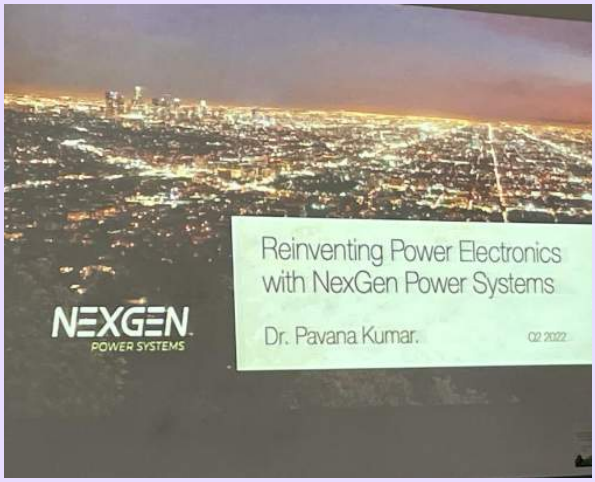
PROJECT EXHIBITION-2022

The final year "PROJECT EXIBHITION-2022" was conducted on 31st May 2022 in the Department of Electronics and Communication Engineering, SoE, Dayananda Sagar University. The entire event was planned and coordinated by the project coordinators, Dr. Rajeshree Narendra and Dr. Pushpa P V Professor, Dept. of ECE. The jury panel were Dr. Gopala Krishana K, Professor, Jain University, Mr. Pavan Sai, Analog Devices, Dr. Gurmeet Singh, Gill Instruments and Dr. Narendra, C P-BIT Bangalore.

The student groups prepared poster presentations and the Hardware/software demonstrations were ready for 37 projects to be showcased in four parallel panels. The hardware and simulation results were demonstrated to the external and internal panel members. The project contents were focused on various fields of Engineering and Technology finding applications in Defense, Medical, Environment and other niche areas.

Seminar on Reinventing Power Electronics with NexGen Power Systems

A seminar on "Reinventing Power Electronics with NexGen Power Systems" was conducted on 3rd June 2022 for 6th Semester students at Gallery Hall-2, A Block. The speaker of the event Dr. Pavan Kumar- Director of NexGen Power Systems, enlightened students about evolution of semiconductor power devices, their switching characteristics, NPD processes and compliance requirements.



"The greatest glory in living lies not in never falling, but in rising every time we fall."
-Nelson Mandela

International Women's Day 2022

International Women's Day 2022 was organized in school of Engineering, Dayananda Sagar University on 12th March 2022 by Prof. Navya R & Prof. Divyashree H B, ECE. The theme for the day was "Gender Equality today for sustainable tomorrow".

Dr. Malini Patil, Professor, CSE Dept, JSSATE Bengaluru, chief guest and Dr. Anitha R, COE, DSU, guest of honor spoke about the theme and debated in their own perspective. All the female staff were part of the Cultural activities and fun games planned by the organizers.

Virtual Labs – Workshop Series-05

The 5th workshop on "Virtual Labs" was conducted from 17th - 31st January 2022 by the Department of Electronics and Communication Engineering, School of Engineering, Dayananda Sagar University, Bengaluru in collaboration with Electrical Engineering Department, IIT Roorkee with a motive of providing complete E-Learning Management System around the Virtual Labs where the students can avail the various tools for learning, including additional web resources, video-lectures, animated demonstrations and self-evaluation.

The workshop consisted of sessions handled by eminent resource persons: Mr. Chetan Dhiman, Mr. Amit Sharma, Mr. Jasbir Singh, Mr. Rajeev Kumar from IIT Roorkee and Dr. Pushpa P V, Dr. V Revathi, Mrs. Anna Merine George, Mr. Sripad Kulkarni, Mr. Srinath R from SoE, DSU, Bangalore who shared their expertise on the topics of Virtual Labs followed by Demo of Physics, Chemistry, Basic Electronics, Basic Electrical, Aerospace basic Labs, Python Basic Lab, Digital Electronics, Mechanical Workshop related experiments. The workshop was organized by Dr. Saara K, Nodal coordinator of Virtual labs for DSU and Mrs. Anna Merine George of ECE Department. Cumulatively around 950 participants attended the sessions.

"Our technology our machines, are part of our humanity we created them to extend ourselves, and that is what is unique about human beings."

- Ray Kurtzwell

One week hands-on workshop on Analog & Embedded System Design

Department of Electronics and communication Engineering in association with BITES conducted a One-week Hands-On workshop on "Analog and Embedded System Design" for the students of 6th semester ECE between 25th - 29th April 2022. The resource person of the workshop was Prof. Sargur M Narasimhan who has 30+ years of experience in Industry, Research, teaching, enterprising activities and project management.

Totally we had 81 registered participants from various streams of electives who practically built circuits and enjoyed all the hands-on sessions.

They were provided with software tool installations, hardware board trainings and various study material support for Exercise projects to work with, in future.

Guest lecture on "Embedded system and IOT"

The lecture was delivered by Mr. Gurjit Singh, Gill Instruments Pvt Ltd, Bangalore. It was organized by Dr. Saara K on 30th March 2022.

Blood Donation Camp

On the occasion of World Blood Donor Day, a blood donation camp was organized on campus by Dr. Pushpa Mala S, DSU and Jack Patro V, Project chair (Rotaract HSR) in association with the Department of Electronics and Communication Engineering and Aerospace Engineering, SoE, DSU with the collective help of Rotaract Club of Bangalore and Bangalore Medical Services Trust(BMST) on 22nd April 2022. This year's theme of the Donation Drive was "Donating blood is an act of solidarity. Join the effort and save lives" to reinforce the need for more people all over the world. A total of 301 units of blood packets was collected from this drive. The students and the faculty of SoE, DSU collectively volunteered in donating and also the conduction of this drive.

National Conference On Recent Trends In Engineering

A two- day National Conference was organized by the Department of Electronics & Communication Engineering, SoE, DSU on 27th – 28th May 2022. NCRTE 2022 was a forum for engineering students, research scholars & delegates to present their research work as well as exchange knowledge on "Recent Trends and Developments in Engineering". The conference included invited lectures from eminent academicians, industry experts in addition to the technical paper presentation sessions by the participants. All the accepted papers will be published in a NCRTE-2022 conference proceeding with ISBN number and in MJIT approved journal. The organizing chairs of this conference were Dr. Saara K, Dr. Rajashree Narendra and Mrs. Anna Merine George. There were 58 papers received for technical paper presentations and a total of 44 high quality plagiarism-checked research papers were selected to be presented in four parallel tracks. Apart from the paper presentation tracks, four keynote talks were arranged from experts in academics and industry on various emerging technologies.

KALAAGNI-2022

The School of Engineering, Dayananda Sagar University organised Kalaagni-2022 a cultural event on 28 thMay, 2022. The students from all departments participated enthusiastically for the theme "ELEMENTS OF NATURE". The Department of ECE won the first place in the cultural fest under the guidance Prof. Navya R, Cultural Coordinator, Department of ECE.

"Real growth of a country was in the hearts , minds, bodies and souls of young men and women of the country."

- Sir C V Raman

INDUSTRIAL VISIT

Students Industrial visit to Gill Instruments & Elica Clusters

An industrial visit was organised by the Department of ECE for 6th semester students on 30th May, 2022 to Gill Instruments and Elica Clusters, Electronic City campus. At Gill Instruments, Mr. Gurjeeth Singh briefed and demonstrated about IoT-enabled systems, their management and optimization of the natural and consumer resources in real-time. The students were exposed to

- The need for IoT connectivity in real-time monitoring for equipment located in remote locations.
- The applications of the IoT gateway for cost effectiveness and ease maintenance.
- The demonstration of Diesel Generator and Water Level Control and monitoring with real time constraints.

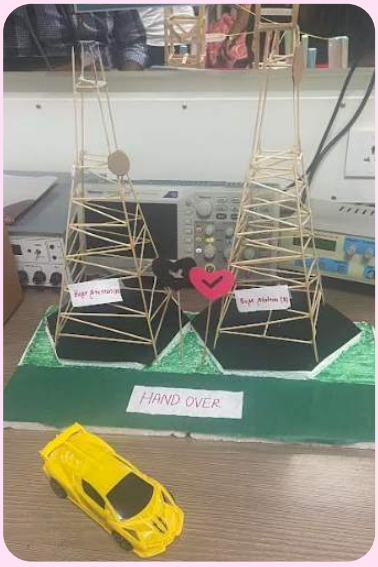
At Elica Clusters, Electronic section students were demonstrated with PCB fabrication process flow and mechanical section highlighted upon modelling of the products using CNC machines.

JVS Electronics

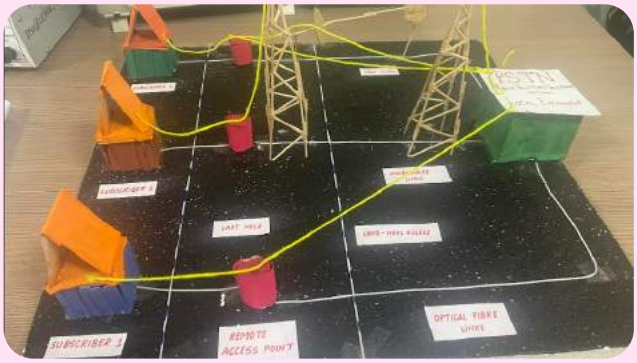
A group of 40 final year students along with 2 faculty from ECE department had visited JVS electronics on 17th May, 2022 to learn about transformers, relays and coupling devices. JVS Electronics is a Bangalore based company engaged in the design, development and manufacture of Embedded power system protection, automation and control products. The Students were delighted to see how they manufacture the product and they interacted with the engineers.

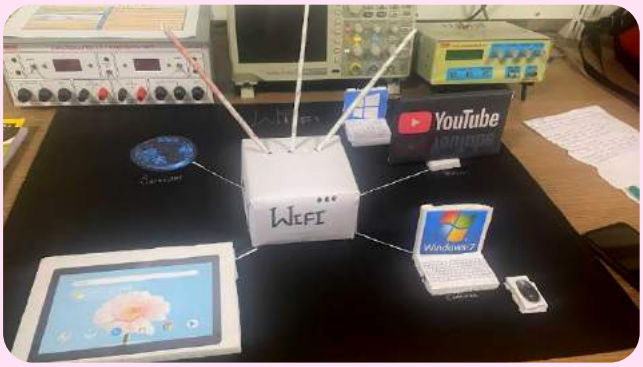
On the same day students visited Channapatna toy town and were dazzled to see how much hardwork goes in making a wooden toy. They interacted with artisans, craftsman and the skilled workers. Students enjoyed this academic visit and were happy to acquire business skills from this visit. Prof. Nandini G Rao and Dr. Sivaramakrishnan S coordinated the industrial visit.

PROJECT BASED LEARNING- A BEST PRACTICE

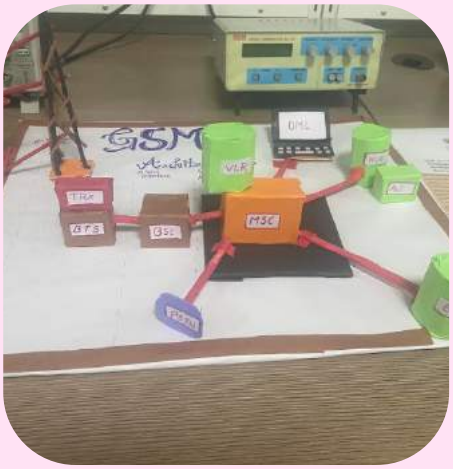


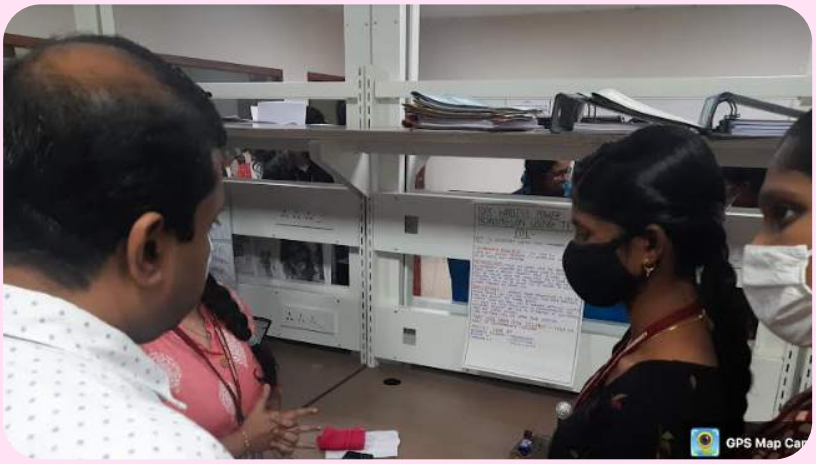
Mini Projects

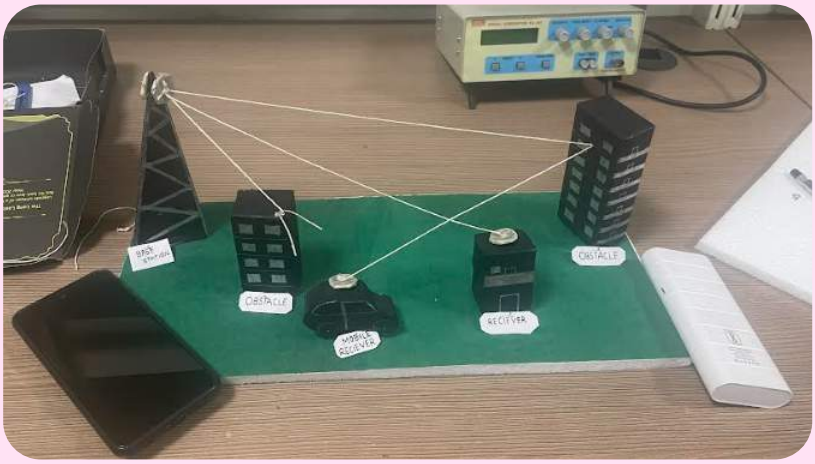




MINI PROJECT EXHIBITION







SPONSORED PROJECT

Mission Innovation- Indo-Canadian- Integrated Clean Energy Consortium of Project of DST, Govt. of India : Lead Centre @ IIT – Kanpur.

Dr. Rupam Bhaduri, Professor and Principal Investigator from DSU, Bangalore has participated for the Inauguration Meeting of the aforementioned most prestigious Consortium of Collaborative Project on Integrated Clean Energy (IC-MAP-Platform-2) Lead / Head Centre at IIT – Kanpur on 27th- 28th May 2022 to discuss the key issues of the platform & the road ahead. There are 13 partner institutes apart from DSU–Bangalore, such as IIT–Kanpur, IIT–Madras, IIT–Guwahati, IIT–Hyderabad, IIT– Roorkee, IIT–Mandi, NIT–Trichy and few Central–CSIR-Labs. The main inaugural speeches were delivered by Prof. Dr. S. Ganesh, Deputy Director, IIT-Kanpur and Prof. Dr. Sandeep Verma, Secretary, Science and Engineering Research Board (SERB). Several key ideas and plans were brought forward in the meet to take the platform ahead.

PATENT GRANTED

Dr. Vaibhav A Meshram is granted with an Australian Patent for the title "An asynchronous logic design technique for VLSI implementation" on 23rd March 2022.

IEEE REPRESENTATION

Dr. Pushpa Mala S was the convener for the AI Symposium followed by Hackathon. The event was held at CDAC, Electronic City in association with IEEE Bangalore Section.

The EXECOM member for IEEE Bangalore section and the Treasurer for IEEE TEMS Bangalore Chapter, 2022.

HIGHLIGHTED BY DEPARTMENT OF SCIENCE & TECHNOLOGY

Dr. S. Arungalai Vendan developed the Internet of Things (IoT) integrated machine titled "Magnetically Impelled Arc Butt Welding Equipment" embedded with sensors for sound, vibration, arc light intensity, temperature as well as smoke, along with processors for abstracting data for predicting the quality of the welding. The low-cost IoT integrated machine was supported by the Department of Science and Technology & recognised in their website.

Magnetically Impelled Arc Butt (MIAB) welding involves striking of an arc between two coaxially placed tubes, followed by interaction of the axial component of arc current and radial component of a magnetic field that causes a force called Lorentz force. This force acts on the arc and impels it around the joint line with an approximate linear speed of 200m/s that uniformly heats the tube surfaces upto the highest temperature at which it is solid (solidus temperature). The softened tube edges (butt ends) are then forced into penetration by forging to form a weld.

The equipment developed is customized for welding mild steel/ low carbon steel tubes for 3 outer diameters 21.5 mm, 22.5 mm and 27 mm respectively with 2-3 mm thicknesses which are typically employed in automotive and structural applications. The scientists are in the process of establishing new equations for two dependent parameters-- arc velocity and arc rotational sound, based on which an approximate prediction can be made about the welding.

FELLOWSHIP

Prof. Mukti Chaturvedi has been selected for the Summer Faculty Research Fellow Programme–2022 at IIT-Delhi under QIP/CEP initiative. Selection to this program is based on the academic merit of the candidate. She has been selected under Mechanical Engineering Department to work in the Welding research lab under the mentorship of Prof. Abhishek Das.

CEP is an outreach initiative of IIT Delhi which aims to cater to the training and development needs of the working professionals and enables them to build unique skills, capabilities and knowledge to manage complex challenges, meet operational and strategic needs and enhance competitive advantage.

The Quality Improvement Programme (QIP) was launched by the Government of India in 1970. Since its inception the programme has been endeavouring to improve the quality of technical education in the country. The main objective of the programme is to upgrade the expertise and capabilities of teachers of the AICTE approved degree-level engineering institutions, National Institutes of Technology (NITs) of the country.

The faculty fellow gets an opportunity to interact and work with the IITD faculty mentor and his/her research students and get exposure to the world-class research matched by world-class facilities.

A project titled "Design and Experimentation of a Low- cost Exertion Gauntlet for Lymphedema" has been selected for funding from KSCST (Karnataka State Council for Science and Technology), under the guidance of Dr. Pushpa Mala S

Lara J
ENG18EC0052

Ili Sandhya
ENG18EC0041

Shilpa DP
ENG18EC0100

Final year B.VoC students incubated a startup company named "TRISX TECHNOLOGIES" in AIC-DSU under the guidance of Prof. Puneeth S.

Varun J

Piyush Bhardwaj

Mohit Patil

The project titled "All Terrain Rover for Precision Agriculture" incubated at AIC-DSU under the guidance of Dr. Gayathri K M & Prof. Sudha Deepthi.

Kushal J

Aryan Jain

Akash Suresh

Aditya Iyer

Implications of Green Energy, Carbon Emission and Electric Vehicles with Charging Aspects

Now a days, utilities are assigning green energy to eMobility Service providers to charge electric vehicles (EVs),which is further contributing in reducing the dependency on hydrocarbon-based energy resources and greenhouse gas emissions of the world.

What is Green Energy ?

Basically, the green energy, also known as clean energy or renewable energy, is inexhaustible. It comes from natural sources that continuously regenerate, such as sunlight, wind, water (in-motion), and geothermal. Renewable energy was the main source of energy before the discovery of oil, coal, and natural gas. With the increasing threat of climate change, green energy has slowly but surely regained prominence. Hydroelectric and geothermal have been integrated within the power generation infrastructure for decades and have increased their contribution to the existing power supply thanks to technological advancements. 17% of the world's power is generated by hydroelectric, and 8.3 percent is delivered by geothermal. Geothermal energy comes from volcanos, hot springs, and geysers, and it is generally sited along major tectonic plate boundaries.

Fig.1: Green energy resources

Renewables are Highly Intermittent

Solar and wind are the easiest to locate, scale, and convert to energy. Solar power ranges from single solar panels on individual roofs to large distributed solar "farms." For solar, individual photovoltaic cells transform sunlight directly into electricity.

Leaders in solar power generation are China, United States, India, Mexico, and Japan. Wind turbines can be placed anywhere, on land and in the sea, generally on floating platforms. Unfortunately, these renewables are highly intermittent in nature, due to fluctuating weather conditions. However, storage systems have evolved enough to safeguard that issue.

Renewables & EV Charging

Ultimately, charging electric vehicles with renewable energy creates a special impact against climate change. To achieve substantial curtailment in the greenhouse gas (GHG) emissions from the internal combustion enginepowered vehicles using fossil fuels, there has been an incessant focus on the EVs which are propelled by green energy. Hence, the GHG production lowers by the receding requirement to generate power from non-renewable energy resources such as coal, petroleum and natural gas when EV charging is facilitated from green energy resources.

As and when required these green energy resources will supply power directly to the charging points and the surplus energy will get stored in on-site storage systems (batteries and other form of storage). That stored surplus energy would be then utilised to power the charging points on cloudy / overcast days and or, during evening to night.

Better Future

The optimized benefit of green energy is crucially depending on efficient use and management of the same. The green energy impact can be maximized by utilizing smart EV charging and energy management solutions with intelligent management of energy chain by integrating energy storages and energy resources with active participation during high energy demand.

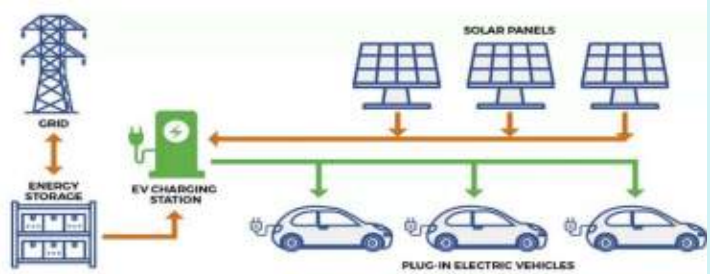


Fig.2: EVs connected to the charging points

-Dr. Rupam Bhaduri

Professor and Principal Investigator, DSU

MUDRA THERAPY

Mudra is a Sanskrit word translated as “gesture”, “seal”, “mark”, etc. Mudras can be perceived as symbolic gestures which are generally practiced with hands, body and even eyes for channeling energy in the pranic (subtle) body to create a spiritual connection between an individual's pranic energy and the cosmic energy.Mudras help in efficient connection of the nervous communication between the mind and body, it stimulates smooth blood flow, it also stimulates energy in the nervous systems by tapping the nerves (NADIS).

Mudras and yoga helps in physical and emotional well being from regular practice. According to ancient science the hands have five points represented as the five worldly elements, namely: fire, air, space, earth, water. As various mudras are depicted in the fig 1. If there is imbalance in these elements it leads to mental and physical complications. Mudra therapy helps in bringing the balance in these elements and reduces health complications.

FIG 1.VARIOUS TYPES OF MUDRAS

- Mr.Divyanshu Kedia (ENG20EC0030)

4th Sem,UG Scholar

C@NNECT A CIRCUIT

An offline event which was conducted on 11th March 2022. The competition was held between 16 teams, which had 2 members each. Each team was provided with clues to find the missing data and further wire the circuit for expected results.

The event was judged by Dr. Sneha Sharma, Dept. ECE, SoE-DSU.

The prize distribution ceremony was presided by Dr. Vaibhav A Meshram, Chairman of Dept. ECE, SoE-DSU.

WINNERS:

Nithin(8th SEM ECE), Brindan B M(8th SEM ECE)

RUNNERS UP:

Pavan HD(4th SEM ECE), Punith V(4th SEM ECE).

TECHNICAL DEBATE

'Technical Debate' was conducted on 26th of March 2022 from morning 10:00 AM. 6 participants took part in the competetion individually. The event was judged by Prof. Manasa K R,Prof. Kanmani B S.

The topics were as follows:

1. Online classes not beneficial from student point of view.
2. Use of technology is changing people for better.
3. Can Artificial intelligence take over the world.
4. Use of Electronic vehicle is eco-friendly in future.
5. Art and culture to be part of syllabi in technical education.

The participants were asked to randomly pick the topic and were given 2 minutes of preparation time. They were asked to debate for 5 minutes on the chosen topic.

WINNER:

Ayesha Malaika (4th SEM, CSE)

RUNNER UP:

Karthik (6th SEM,ECE)

"It is nice to have a valid competition, it pushes you to do better."

- Gianni Versace

PCB DESIGN WORKSHOP

A hands on workshop on "PCB DESIGN" was conducted on 23rd April 2022 from morning 10:00 AM to noon 04:30 PM.

60 participants who took part in the workshop, were divided into 15 teams of 4 members each. The speaker of the event Mr. Arvind S, Final year student intern working in DERBI started his presentation with an introduction to basics of PCB and the eagle software used to design the board.

Mr. Arvind S also gave insights and shared his knowledge on how to build the circuit on the software and even taught the connection of the software on the copper clad. The event concluded with a beautiful message from Dr. Vaibhav A Meshram, Chairman of ECE.

STAND-UP COMEDY

'Stand-Up Comedy' was conducted on 12th March 2022 in the afternoon session. It was the first-ever fun event that was conducted where there were 12 participants. The event was formally inaugurated by the judge Mr. Srinath R and Mr. Karthik Tandel addressed the gathering and motivated the participants. Prizes were distributed by Mr. Karthik Tandel and Mr. Srinath R from Department of Aerospace Engineering.

WINNER:
Varun N(4th SEM CSE)
RUNNER UP:
Navaneeth Krishnan Nair (6th SEM CSE)

TREASURE HUNT

'Treasure Hunt' an on-campus event which was held on 26th March 2022 from 12:00 PM. There were around 25 teams. There were three rounds which was prepared by the organizing members.

Round 1: Part-1: Magic Squares Puzzles(15 min).
Part-2: Aptitude Test (15min).
Round 2: Part-1: Technical Quiz (15 min).
Part-2: Current Affairs Quiz A (15 min).
Round 3: Part-1: Location decoding for the second clue.
Part-2: Clue searching at a location found in part 1.
Part-3: Password cracking with the clue found in part-2.
Part-4: Search for the treasure from the given location clues.

The team which reaches the treasure and gets it first, was declared as the winners.

WINNERS:

Aaroodh, Abhishek Krishna T M, Chethan BS, Third Year, Dept of CSE.

RUNNERS UP:

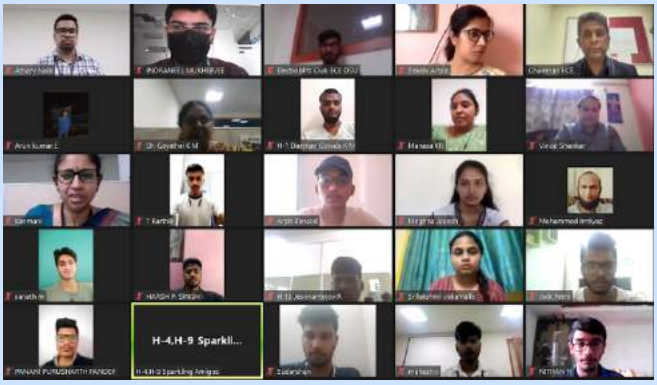
Sahana DM, Yamini Obinendi, Shraddha Prabhakar, Second Year, Dept. of ECE.

OATH TAKING CEREMONY

The oath taking ceremony was conducted on 13th April 2022. The former club executives Mr. Indraneel Mukherjee, President, Ms. Sandhya Ili, Vice President, Mr. Atharv Dhananjay Naik, Treasurer and Mr. Vasudev Kulkarni, Secretary handed over the charges to the newly nominated club executives Mr. Priyanshu Singh, Mr. Mageshwaran V, Ms. Sahana D M, and Mr. Pavan H D respectively.

PROTOTHON PHASE-1

'Prototon (#Exhibit your Prototype) Phase-1' was conducted on 30th March 2022 from morning 09:30 AM till evening 05:00 PM in virtual mode.



Around 200 registered participants from all over India took part in the event as teams of 3-5 members each, there were a total of around 50 teams. The event was carried out under the leadership of the faculty co-ordinators of electroblitz club in collaboration with AIC-DSU. The event started with a small introduction about Prototon and the club by, the organizing chairperson Dr. Vaibhav A Meshram, Chairman of Dept. ECE and Dr. Vinod Shankar Chief Executive Officer, Atal Incubation Center - Dayananda Sagar University.

The chairperson welcomed and wished the participating team a stroke of good luck and Dr. Vinod Shankar gave an insights about the sponsors and the jury members from the various industries were: Mr. Prakash Vivekananda, Mrs.Meghana Joseph, Dr. Deepo Subin, Ms. Preeti Choudhary, Mr. Vinod Shankar, Mrs. Natasha Martin.

The presentation were grouped into 3 streams: Healthcare, Waste Management and Mobility. We had four sessions of presentation wherein each session had 12 teams the event was overseen by the club heads and the executive members of the club. The presentations of all teams highlighted great team efforts, skills and cooperation. The main aim of the event was to test their prototype building and presentation skills, which were exclusively portrayed by them. Out of the 50 teams, 22 teams got selected and qualified for 'Prototon Phase-2'.

PROTOTHON PHASE-2

'Prototon (#Exhibit your Prototype) Phase-2' on 30th April, 2022 from morning 08:30 AM onwards conducted in Gallery Hall-3, A-Block. At the registration desk each team was provided with a registration kit, and were directed for breakfast at canopy hall. The inauguration ceremony started with a brief introduction to the event and an invocation song, by Mr. Rishab of 4th Semester ECE.

Mr. Indraneel Mukherjee, the former president and Ms. Sahana DM, the treasurer of Electroblitz Club welcomed the dignitaries on the dais Dr. K N B Murty Vice-chancelor, Dayananda Sagar University, Dr. M K Banga, Dean-Research, DSU, Dr. A Srinivas, Dean-School of Engineering, DSU and jury members.

The Master of Ceremony also introduced the judging panel Mr. Vinod Shankar, Chief Executive Officer, AIC-DSU Innovation Foundation, Mr. Naren Kollu, Entrepreneur; Mr. Atul Udupi, Mentor of Change; Ms. Geetha Ramamurthy, GiGa Innovation Centres; and Mr. Deepesh Goel, Strategist, Mentor, and Business Transformation Leader, Dr. Vaibhav A Meshram, Chairman, Department of Electronics and Communication Engineering, School of Engineering, DSU, the participants, their faculty mentors, faculty members from the ECE department, and the students of DSU.

Followed by the inauguration ceremony, the participants demonstrated their prototypes to the jury members and enjoyed their suggestions.

The Valedictory function was carried out by Mr. Atharv D Naik, Former Treasurer, of Electroblitz Club. The winners were announced by Dr. Gayathri K M, and momentos were distributed by the jury panel, apart from the announcement of 1st 2nd, and 3rd prizes, as per the jury panel's recommendation four additional consolation prizes were also announced since the competition was quite tough. Dr. M K Banga, Dean-Research gave his concluding remarks, where he shared his beautiful experience of the entire day. The event was concluded with a group photograph.

WINNERS:

Team H6-Wearable Prenatal Monitoring Device, from Sethu Institue of Technology, Tamil Nadu.

RUNNERS UP:

Team H15-Biomechanical Foot balancing platform to measure Plantar foot pressure, from RNSIT, Karnataka.

Team M1-Automatic Air Inflation System, from Sethu Institue of Technology, Tamil Nadu.

IMPORTANCE

The ideas that changes the way of thinking,
is important..
Importance is,
something that changes the way of living..

Importance of living in this world,
is to take responsibilities..
To be motivated always,
which is the important ingredient of this life..

Taking care of everyone,
is important..
Importance is,
to grow up together making this world the best..

Importance is to be,
confident enough..
These come with all the above,
importances..

-Indraneel Mukherjee
8th Semester

WAY OF THINKING

Having an idea, belief
About someone or something
Which may or may not give relief
Without it there is nothing

Your thinking determines
The way you act and your behavior
For that everyone may admire
With the hope of great future endeavour

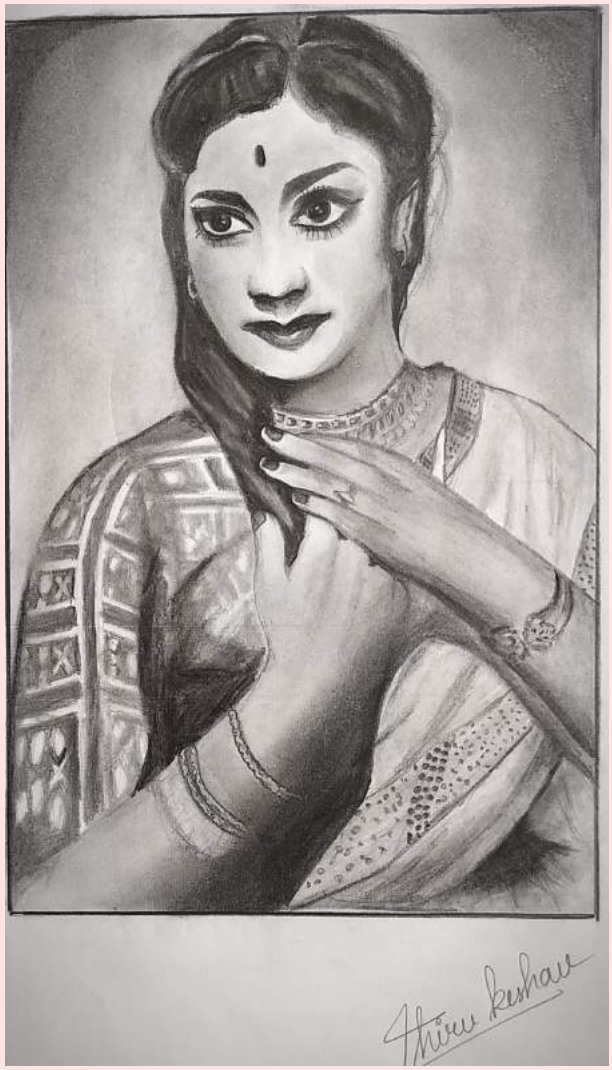
Thinking can be positive
This gives an opportunity
Then every act of yours is productive
Having a work continuity

Thinking can be negative
This leads to the opposite of positive
Then the person can't be productive
Because it depends on his/her perspective

-Atharv Dhananjay Naik
8th Semester

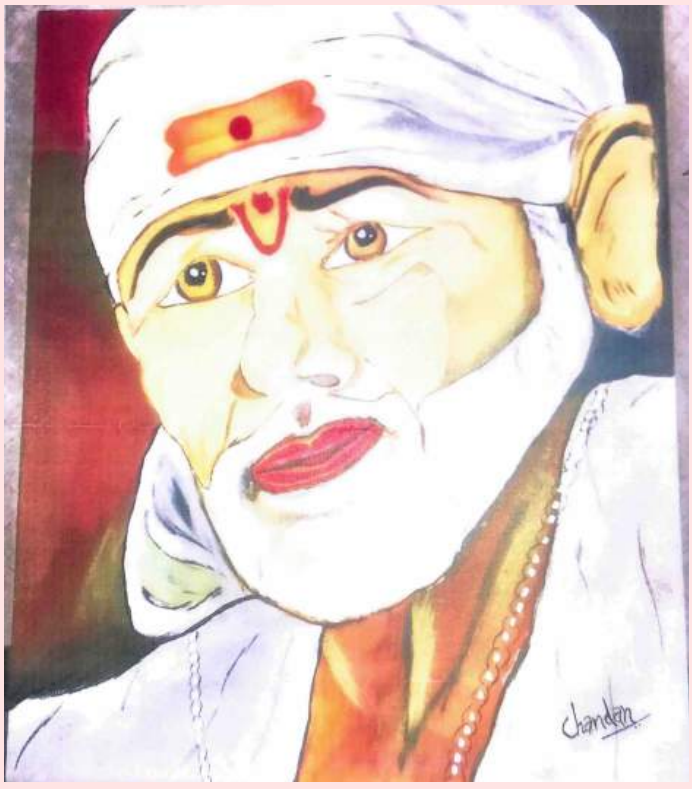
ART SECTION

Thirumalesh Keshav
4th Sem ECE

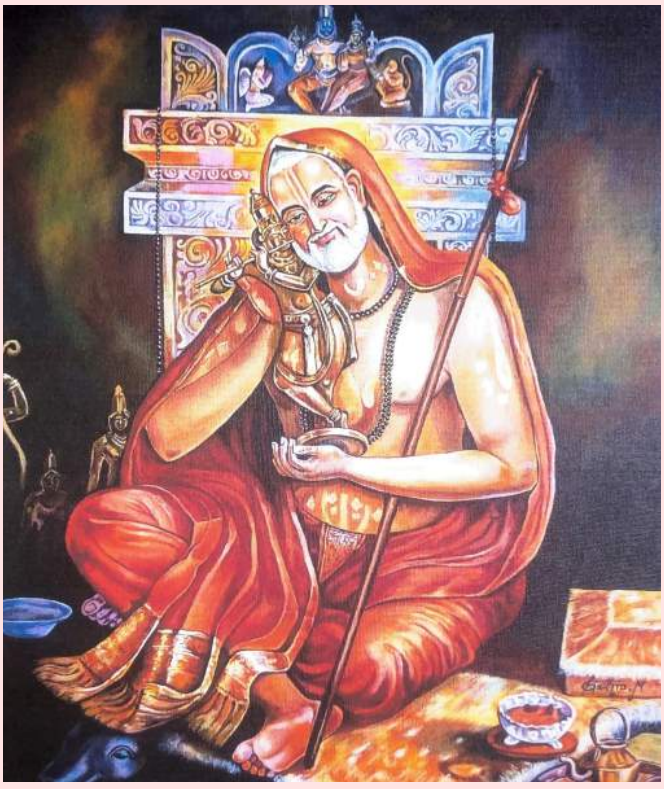


"Every artist dips his brush in his soul and paints his own nature into his paintings."

- Henry Ward Beecher

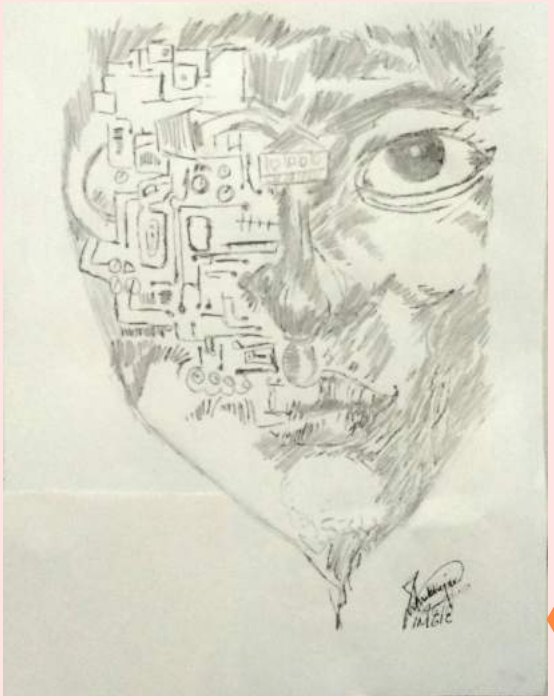


Chandan M
UG Scholar



Chaitra N
UG Scholar

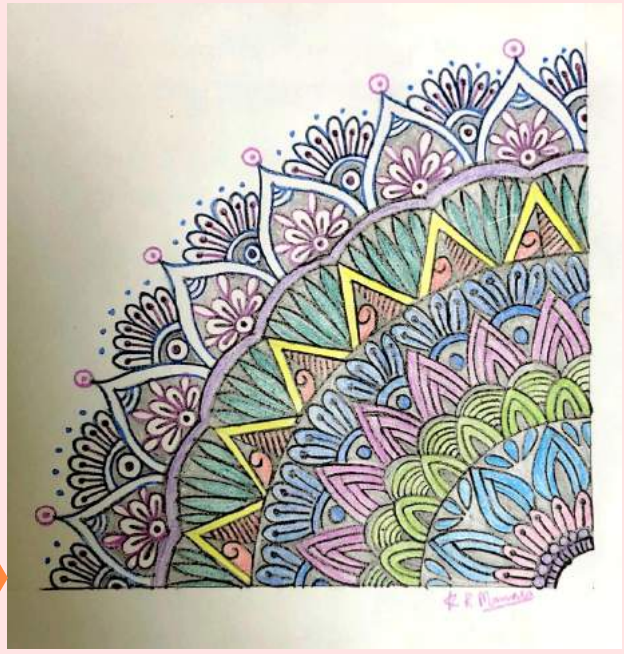
ART SECTION



"We need to change our way of seeing things to cherish our ideas."
- Indraneel Mukherjee

Indraneel Mukherjee
8th Semester

"Each person's life is like a mandala - a vast, limitless circle."
- Pema Chodran



Mrs. Manasa K R
Faculty, ECE

"Creativity is nothing but a mind set free."
- Torrie T Asai

Mrs. Navya R
Faculty, ECE

PHOTO GALLERY

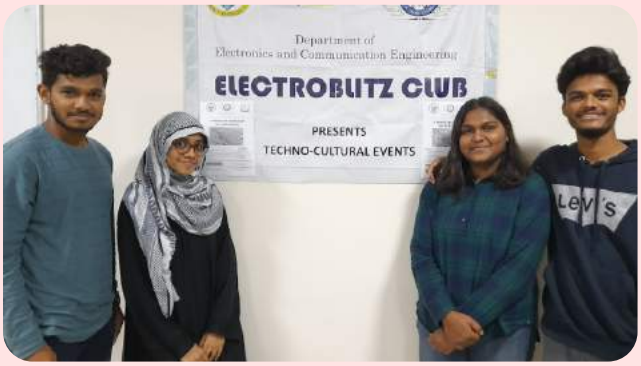


PHOTO GALLERY

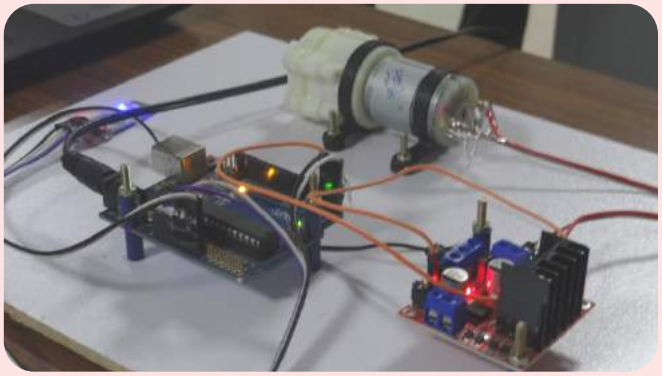


PHOTO GALLERY

M.Tech Batch 2020-2022

B.Tech Batch 2018-2022 A Section

From Left-Right

Row1: Dr S Sivaramakrishnan, Dr. S Arungalai Vendan, Dr. Theodore Chandra S, Dr. Pushpa Mala S, Dr. Vaibhav A Meshram, Dr. Puttamadappa C, Dr. A Srinivas, Dr. Rupam Bhaduri, Dr Rajashree Narendra , Dr. Saara K, Mrs. Kanmani B S, Dr. Gayathri K M, Dr.Bhawani Patnaik

B. Tech Batch 2018-2022 B Section

From Left-Right

Row 2: Mr. Karthik, Mr. Sharanabasavaraj, Mr. Abhinav Karan, Mr. Puneeth S, Mr. Darshan H, Dr. K S Bhagya Jyothi , Mrs. Kokila S, Mrs. Shwetha M P, Mrs. Manasa K R, Mrs. Navya R, Dr. Sneha Sharma, Mrs. Chaitra Bhavana, Mrs. Swetha N G, Mrs. Anna Merine George, Mrs. Nandini G Rao

STUDENT COORDINATORS

Mr. PRIYANSHU SINGH

Mr. MAGESHWARAN V

Ms. SAHANA D M

Mr. PAVAN H D

FACULTY COORDINATORS

Mrs. KANMANI B S

Dr. GAYATHRI K M

Mrs. MANASA K R