

JULY'22 - SEP'22

# NEWSLETTER

SARDAR VALLABHBHAI  
NATIONAL INSTITUTE  
OF TECHNOLOGY



## DEPARTMENT OF ELECTRICAL ENGINEERING

Department of Electrical Engineering is one of the oldest departments in Sardar Vallabhbhai National Institute of Technology. The department actively conducts various academic and research activities throughout the year. This newsletter presents the brief about various activities carried out from July 2022 to October 2022.



### ☑ HIGHLIGHTS

- Research & Consultancy Projects - 01
- Research Publications
  - Journals - 16
  - Conferences - 02

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## Department Vision

To be the leading department disseminating globally acceptable education, effective industrial consultancy and relevant research output.

## Department Mission

To be a global centre of excellence in technical education and innovation producing competent professionals with integrity.

### Programme Educational Objectives

- Graduates will be able to solve engineering / industrial problems by employing various learning resources and modern tools.
- Graduates will be able to design products to meet social, economic and environmental demand by innovative ideas.
- Graduates will be able to investigate complex problems and take up research and development work in the allied fields.
- Graduates will be able to communicate effectively through oral and written presentation of technical reports, adopting lifelong learning with integrity and ethics; and they will have interpersonal skills required to lead and nurture diverse teams.



## **PROF. A.K.PANCHAL**

Head, DoEE  
SVNIT, Surat

Welcome to the Department of Electrical Engineering at SVNIT! Our department is well-known for the student-focused teaching-learning, engineering and technology practice-oriented research and education. Nearly 40 faculties and staffs are dedicated to impart their high-quality education and research experiences to our students and scholars to become leaders of the next generation of technocrats with the highest professional achievements. The curricula and well-equipped laboratories are designed for preparing the workforce to overcome the present and emerging technological challenges of the century.

As a research-oriented department, our research activities are extended to the major areas of Electrical Engineering, including power and renewable energy systems, power electronics and drives, instrumentation and control. Our faculty research is funded by several national and state agencies (SERB-DST, MeitY, CSIR, INAE, MHRD, GUJCOST, etc.). Our research in cutting edge of technology is published in the national and international referred journals with the IEEE, IET, Taylor & Francis, Elsevier, Springer and other reputed publishers. Our department offers testing and consultancy services to the nearby industrial belt HAZIRA, Surat Municipal Corporation, power distribution companies, etc.

With nearly 500 UG, 150 PG and 100 PhD scholars, we are one of the largest and most prestigious departments within the Gujarat state. Our graduates place themselves in prestigious positions in the corporate, government and educational institutions. Many fresh B. Tech. and M. Tech. graduates opt for higher education in the reputed international and national institutions (IISc, IITs, IIMs and others). We are dedicated to bring our education and research programmes to higher recognition in national and international level. I invite you to visit our website for exploring the department faculties, research activities and exciting opportunities that await you here at DoEE.

I am happy to present the 11th issue of the Department quarterly newsletter. The major parts of this collection include, short term training programmes organised (in the virtual mode), activities of Electrical Engineering Society, research publications and projects. I acknowledge the efforts of the committee members Dr. J. Venkataramanaiah, Dr. G. Sushnigdha and Dr. Suresh Lakhimsetty in the editing this issue. I also thank Mr. Jaydev Kamani, Ms. Devanshee Tanti, Mr. Raghav Nuwal and Ms. Dhruva Wankhade for assisting the committee members.

“Quality means doing things right and in time when no one is looking at you.” Henry Ford said for the successful business, and we do believe and follow it.

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## RESEARCH PROJECTS & CONSULTANCY



Prof. S N Sharma



Dr. Rakesh Maurya



Dr. Sabha Raj Arya

Consultancy project on "Electrical Safety Audit (with Thermography) for your Buildings (Office and Residential Quarters) at NABARD, Ahmedabad,

Amount (in Rs.) = 2,24,200.00

by Prof. S N Sharma, Dr. Rakesh Maurya, Dr. Sabha Raj Arya and Dr. P. V. Bhale



# WORKSHOPS & EXPERT TALKS

- Expert talk on "Photovoltaic- battery charging systems: PV to EV" by **Prof. A.K. Panchal**, was organized by Nirma University, Ahmedabad from 4th to 16th July 2022.
- Expert talk on "Design and Development of Integrated On-board Electric Vehicle Chargers with Multifunctional Features" by **Dr. Rakesh Maurya**, was organized by Institute of Technology, Nirma University on 4th to 16th July 2022 under the Auspices of CQAAD, Two-week STTP on "Electric Vehicle Technology- Status, Challenges and Road Ahead".
- Expert talk on "Stability Analysis using MATLAB" by **Dr. H. G. Patel**, was organized by DoChe, SVNIT Surat on 26th to 30th September 2022 in a STTP on "MATLAB and its Application in Engineering and Research".
- A self-sponsored STTP in virtual mode was organized on "Sustainable development and recent advances in electrical engineering (SDRAEE)" on 26-30th September 2022 by Dr. Vasundra Mahajan, Prof. Anadita Chowdhury, Prof. Ashish K. Panchal, Dr Akanksha Shukla.
- Expert talk on "Modernization of Electrical grid: Renewables and Protection" by **Dr. P Kaliappan**, Joint Director, Power items division, CPRI Bangalore was organized by DoEE, SVNIT on 8-July-2022.
- Expert talk on " An overview of the computational electromagnetics" by **Prof. Uday kumar**, IISC Bangalore, was organized by DoEE, SVNIT on 25- July-2022.
- Expert talk on "Advancement of motors in electric vehicles". by **Prof. Raghavan**, IIT Gandhinagar, was organized by DoEE, SVNIT on 8-September-2022 under EES colloquy.
- Expert talk on "Electrocardiography: An Engineer's delight" by **Prof. Ranjan Maheswari**, RTU, Kota, was organized by DoEE, SVNIT on 13-september-2022.

# RESEARCH PUBLICATIONS

## Journals

- Mansuri, R. Maurya and S. M. Suhel, "Reduction of Common-Mode Voltage Using Zero Voltage Vectors in Dual Star Asymmetrical Induction Motor," in IEEE Transactions on Energy Conversion, 2022.
- Praveen Shankar, and Rakesh Maurya, "Integration of Solar Powered DC Homes to DC Micro grid Using Dual Active Bridge Converter", in International Journal of Power Electronics, 2022.
- Sabha Raj Arya, Rakesh Maurya, Talada Appala Naidu and B. Chitti Babu, "Adaptive Observer for dynamic voltage restorer with optimized proportional integral gains", IEEE Chinese Journal of Electrical Engineering, vol. 8, no. 1, pp. 38-52, March 2022.
- A. Urooj, A. Dak, B. Ristic and R. Radhakrishnan, "2D and 3D Angles-Only Target Tracking Based on Maximum Correntropy Kalman Filters", Sensors, vol. 22, no. 15, 5625, July 2022.
- A. Dak and R. Radhakrishnan, "Non-iterative Cauchy kernel-based maximum correntropy cubature Kalman filter for non-Gaussian systems", Control Theory and Technology, Springer.
- Jyoti Gupta, Rakesh Maurya and Sabha Raj Arya, "Development of On-Board Charger with Features of Multiple Electric Vehicles Charging", Chinese Journal of Electrical Engineering (CJEE), 2022 (accepted)
- Jayadeep Srikakolapu, Sabha Raj Arya, Rakesh Maurya and Shailendra Sharma, "Predictive Control based DSTATCOM with a Multi Criterion Decision Making Method", Institution of Engineers (India): Series B, 2022.
- Arvind Pratap, Prabhakar Tiwari, Rakesh Maurya & Bindeshwar Singh, "Minimization of Electric Vehicle Charging Stations impact on Radial Distribution Networks by optimal allocation of DSTATCOM and DG using African Vulture Optimization Algorithm", International Journal of Ambient Energy (TAEN), 2022.

# RESEARCH PUBLICATIONS

- Prashant Kumar, Sabha Raj Arya and Khyati D Mistry, "Optimized neural network and adaptive neuro-fuzzy controlled dynamic voltage restorer for predicting power quality performance," International Journal of Emerging Electric Power Systems (IJEEPS), vol. 22, no. 4, pp. 383-399, August 2022.
- V Rajagopal, Sabha Raj Arya, Sanjay K Patel, Talada Appala Naidu, J Bangarraju, "Optimized PI gains for dynamic voltage restorer control using admittance estimation strategy," Journal of Electrical Engineering, no. 9, Sept. 2022..
- S. Bhattacharjee, S. Halder, Y. Yan, A. Balamurali, L. V. Iyer and N. C. Kar, "Real-Time SIL Validation of a Novel PMSM Control Based on Deep Deterministic Policy Gradient Scheme for Electrified Vehicles," in IEEE Transactions on Power Electronics, vol. 37, no. 8, Aug. 2022.
- Mudgal, S., Mahajan, V., Chowdhury, A, "Gender Inequality: Academic, Economic, Social and Pandemic Viewpoint", Mahajan, V., Chowdhury, A., Kaushal, U., Jariwala, N., Bong, S.A. (eds) Gender Equity: Challenges and Opportunities. Springer, Singapore. [https://doi.org/10.1007/978-981-19-0460-8\\_47](https://doi.org/10.1007/978-981-19-0460-8_47), 2022.
- Ambati Bhimaraju, Aeidapu Mahesh, Sukhdev Nirbheram Joshi, "Techno-economic optimization of grid-connected solar-wind-pumped storage hybrid energy system using improved search space reduction algorithm", Journal of Energy Storage, vol. 52, Part A, August 2022, pp. 1-14.
- Nitesh Tiwari, Shekhar Yadav and Sabha Raj Arya, "Direct Torque Control of Induction Motor Equipped Electric Vehicle drives and Optimized PI Gains", Accepted for Publication in International Journal of Electric and Hybrid Vehicles, July 2022.
- Mandar Chaudhari & Anandita Chowdhury, "Design and Performance Analysis of Single-Phase Line Start Synchronous Reluctance Motor Derived from Single Phase Induction Motor", Smart Science, 2022, DOI: 10.1080/23080477.2022.2074655
- Chaudhari, M., Chowdhury, A. "Improved Performance Analysis of Single-phase Line Start Synchronous Reluctance Motor Derived from Induction Motor", International Journal of Engineering, vol. 35, no. 8, pp. 1641-1650, 2022, doi: 10.5829/ije.2022.35.08b.20.



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# RESEARCH PUBLICATIONS

## Conferences

- A. Dak, A. Urooj and R. Radhakrishnan, "Estimation and interception of a spiralling target on reentry in the presence of non-Gaussian measurement noise", in 9th Symposium on Control, Automation, Industrial Informatics, and Smart Grid (ICAIS'22), Trivandrum, Kerala.
- Talada Appala Naidu, Sabha Raj Arya, Rakesh Maurya and Ahmed Al-Durra "Control of Supply Voltage Power Quality Issues using DVR through Forward-Backward LMS" in Proc. 2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation, GRIET, Hyderabad, August 4-6, 2022, pp. 1-8.

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# INSTITUTE LEVEL FACULTY RESPONSIBILITY



Dr. S. N. Sharma  
Professor, Ph. D.

Dean (Academic) from 2020 - till date

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Dr, Rajasekhara Reddy Chilipi  
Assistant Professor, Ph.D.

1. Departmental Training and Placement Coordinator for period of 2 years
  2. Faculty Associated for Dean academics related activities
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# Ph.D. Awardee

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**DS13EL002**

21-06-2022

**CHAVDA JITEN KISHORBHAI**

"COST-EFFECTIVE OPTIMAL SIZING OF HYBRID ENERGY STORAGE SYSTEM WITH INBUILT ENERGY MANAGEMENT CAPABILITY FOR SMALL EV CAR FOR AN INDIAN URBAN TRAFFIC CONDITION"

**SUPERVISOR - PROF. VARSHA A. SHAH**

**DS17EL003**

09-06-2022

**VAMJA RAJAN VINODRAY**

"INDUCTION MOTOR DRIVEN SOLAR PHOTOVOLTAIC SUBMITTED BY WATER PUMPING SYSTEMS - A TOPOLOGICAL INVESTIGATION"

**SUPERVISOR - DR. MAHMADASRAF A. MULLA**

**DS14EL005**

01-07-2022

**PATIL YOGESH PUNJARAM**

"DESIGN OF SLIDING MODE CONTROLLERS FOR PROCESS CONTROL APPLICATIONS"

**SUPERVISOR - DR. HIRENKUMAR G. PATEL**

**DS16EL004**

14-07-2022

**PARMAR ASHOKUMAR BHIKHUBHAI**

"SUPPLY/DEMAND-SIDE RESOURCE SIZING AND MANAGEMENT IN DEREGULATED POWER SYSTEM: A COMPARATIVE TECHNO-ECONOMIC ANALYSIS"

**SUPERVISOR - DR. PRANAV DARJI**

**DS14EL003**

02-09-2022

**AGRAWAL SUNIL KUMAR**

"A NOVEL METHODOLOGY FOR OPTIMAL PLACEMENT OF VSC-HVDC CONVERTER WITH TECHNO-ECONOMIC OPTIMIZATION USING UOPF MODELLING"

**SUPERVISOR - DR. PRASANTA KUNDU**

# Ph.D. Awardee

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**D14EL001**

06-09-2022

**GOR CHANDANIBEN PANKAJKUMAR**

"INVESTIGATIONS ON FAULT TOLERANT CONTROL OF FIVE PHASE INDUCTION MOTOR DRIVE OVER THE ENTIRE SPEED RANGE FOR ELECTRIC VEHICLE "

**SUPERVISOR - PROF. VARSHA A. SHAH**

**DR. MAKARAND M. LOKHANDE**

**D17EL006**

13-09-2022

**MOHITE UTKARSHA LAXMAN**

"CANCER CHEMOTHERAPY DOSAGE ESTIMATION WITH ERROR FUNCTION BASED EXTENDED KALMAN FILTER"

**SUPERVISOR - DR. HIRENKUMAR G. PATEL**

**DS17EL004**

23-09-2022

**SAYED JAVED ALAM**

"CONTROL ALGORITHMS FOR UNIFIED POWER QUALITY CONDITIONER TO MITIGATE POWER QUALITY PROBLEMS"

**SUPERVISOR - DR. SABHA RAJ ARYA**

**D18EL003**

03-10-2022

**NEERAJ KUMAR SINGH**

"CYBER-SECURITY OF CRITICAL INFRASTRUCTURE IN CYBER-PHYSICAL SYSTEMS NEERAJ KUMAR SINGH OF SMART GRID"

**SUPERVISOR - DR. VASUNDHARA MAHAJAN**

**DS14EL007**

29-03-2022

**LAKUM ASHOKKUMAR CHAMANLAL**

"A NOVEL APPROACH FOR OPTIMAL PLACEMENT AND SIZING OF ACTIVE POWER FILTERS USING GREY WOLF OPTIMIRE AND ITS VARIANTS"

**SUPERVISOR - DR. VASUNDHARA MAHAJAN**



## **FACULTY ACHIEVEMENT**

Talada Appala Naidu, Sabha Raj Arya, Rakesh Maurya and Ahmed Al-Durra received best paper award for presenting paper on "Control of Supply Voltage Power Quality Issues using DVR through Forward-Backward LMS" in Proc. 2022 IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation, GRIET, Hyderabad, August 4-6, 2022, pp. 1-8.

# STUDENT ACHIEVEMENT



## INTER-DEPARTMENT TOURNAMENT

Runner ups

Meghna Singh (B.Tech. 3rd year) - best player of tournament (Women)

Deepam Sinha (B.Tech. 4th year)

Sonia Ghodke (B.Tech. 4th year)



Inter department tournament price distribution

# STUDENT ACHIEVEMENT

## PLACEMENTS

ROLL NO.	NAME	COMPANY
U19EE006	JAYDEV KAMANI	GE HEALTHCARE
U19EE014	HARIOM VYAS	WELLSFARGO
U19EE015	HEMANT AGRAWAL	MATHWORKS
U19EE032	SITANSHU YADAV	SAMSUNG
U19EE060	DEEPAM SINHA	TEXAS INSTRUMENTS
U19EE061	ANUJ CHHIROLIYA	ORACLE
U19EE065	RAJ NATH SINHA	MATHWORKS
U19EE077	RUDRA PUJARA	WELLSFARGO
U19EE084	PARTH PATEL	ORACLE
U19EE085	NISHA PRAKASH	JP MORGAN
U19EE089	NAVEEN RAWAT	WELLSFARGO

# ACADEMIC ACHIEVERS

## M.Tech.

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2nd Year

SPECIALIZATION	ROLL NO.	NAME	CGPA
POWER ELECTRONICS & ELECTRICAL DRIVES	P20EL019	FIRAKE DINANATH MOHAN	9.00
POWER SYSTEMS	P20PS019	MORE SHREYASH DINKAR	8.90
INSTRUMENTATION AND CONTROL	P20IC001	AASTHA DAK	9.60

## B.Tech.

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1st Year (till semester-2)

SERIAL NO	ROLL NO.	NAME	CGPA
1	U21EE043	RIYA GUPTA	9.20
2	U21EE001	ARYAN S KUMAR	9.14
3	U21EE081	ADITI TAPARIYA	9.14
4	U21EE054	TANMAY SHIVCHARAN AGRAWAL	9.12

# ALUMNI SECTION

The Electrical Engineering Department holds a special place in my heart. I vividly remember the moments I had spent along with my friends, seniors, juniors and the professors. When I look back, I feel that I am extremely lucky to have such wonderful people in my life to guide and support me.

**1) What are the things you fondly remember about our department?**

A: The most exciting memory I hold is from the Practical Coursework sessions (Laboratory-practical) we had in our courses. The theoretical knowledge being imparted by the professors in the classroom used to come alive during the Lab sessions. The Labs in our department were well established to allow us to experiment and learn beyond the course. I personally enjoyed a lot working in Power Electronics, Power system and Control system Labs. The faculty members were extremely patient and helpful in understanding the applications and implementations of the various systems and their analysis. During my internship and project, I sought help from several faculties and they always spared time for me explaining the minute details of each and every developments.

One of the most cheerful memory I have is celebrating the "Department Week" when all the students and faculties would come together to interact with each other through various events and share the joyful moments. These informal connects played an important role for breaking the communication barriers among students as well as between students and faculties.

**2) How do you think our college contributed in the journey to your current position?**

A: I believe that that my college has played a pivotal role in my journey so far. It has provided me with the opportunities to explore my areas of interest and the resources to pursue them. The knowledge I gained from the Faculties, the peer-to-peer learning that happened in the campus from various extra-curricular events helped me become persistent, disciplined and empathetic.

Having my interest in the core electrical engineering, the depth in the subject knowledge that I gained at the college were extremely useful in my job, especially electrical machine design and ETAP software for the Power system analysis. Having worked on different projects allowed me widen my perspective about different technologies and processes prevalent in the industry. The industrial workshops, industry visits and internships exposed me to the application and execution aspect of the engineering. My learnings were immense during my summer research internship under Prof. A. K. Panchal and final year project under Prof. A. Chowdhury. I developed a deeper understanding about working of solar PV cells and modules during my internship.

The alumni connections and network from the college definitely forms the most important base for the future opportunities.

**3) What are your thoughts on job after higher education v/s starting the corporate journey directly after B.Tech?**

A: I believe that the decision of completing higher education first and then taking up a job or proceeding for the job directly after B.Tech is completely subjective and depends on individual preferences, available opportunities and the relevance.

There are certain niche job profiles which opened up by in the industry only for the people specialized in the requisite field due to requirement of advanced knowledge. If an individual has clarity over pursuing the career in any such field, he/she may opt for the higher education and then proceed for job in the preferred domain.

However, if someone wants to explore the opportunities available in the market, be it in their own domain or across other functions involved in the corporates, they may be benefitted by the work experience in order to evaluate their options.

Corporates have various different functions like R&D, Engineering, Manufacturing, Supply Chain Management, Marketing Management, Finance, Project Management, Human Resources Department, etc. which have their own importance in the growth of the company and each one of them provide lucrative opportunity for growth of the employees. I would encourage to evaluate the available options and carefully select the field of specialization which aligns with their goals and personality as it is a significant investment in terms of time, money and effort.

An individual may be inclined towards not pursuing the higher education and continuing with the job in the industry. This is also perfectly fine as long as he/she is able to continue widening his knowledge base while working on the job. Many job profiles in the industry value on the job learnings and offer growth opportunities irrespective of the higher education degree on the basis of the results delivered. It depends on the type of the industry, job profile and relevance in the job market for making the decision of opting higher education before or after the job and whether to pursue higher education itself or not.

**4) Any guidance for the beginners to survive and succeed in this strong industry competition?**

A: The industry is becoming more and more competitive as the technologies involved are evolving rapidly. Companies are in need of the employees who can adapt to these changing technologies, learn and implement them efficiently and cost effectively.

In order to tackle present day challenges, it is considered a pre-requisite for the employees to constantly upgrade their knowledge about the latest industrial trends, their relevance to their organization and the value addition these technologies would bring in. Innovation, creative thinking and problem solving attitude are encouraged among the beginners. However, these ideas/solutions must be feasible and cost effective. Hence, someone who is beginning his career will have to get acquainted with current industry practises, he/she will have to continuously update his skills for the newer technological interventions which the industry might adopt in the near future. Many industries are undergoing transformations post pandemic, this has provided the employees the opportunity to take the responsibility and ownership to implement the solutions.

In order to succeed in this strong industry competition, the qualities like persistence, flexibility and adaptability hold much importance. Constant upskilling and industry vigilance may be considered as a pre-requisite to survive in this competition. In order to excel, the leadership and ownership of responsibilities for recognizing and implementing these changes to improve existing processes play an important role. In today's highly competitive world, Soft Skills and networking are equally important as compared to the Hard Skills.



**Himanshu Warke**  
pursuing MBA  
from SPJIMR, Mumbai

# ALUMNI SECTION

1) What are the things you fondly remember about our department?

Many things I remember about the department. One is that I got a chance to work and learn with the most incredible faculty and peer students, which helped me to lot to develop. Secondly, the most exciting memory coursework knowledge we can directly see and experience in the laboratory. This is an exciting thing for me. I still remember power electronics, electrical machines, and control system lab work where we applied theoretical knowledge directly to see how it reflects where its lacks.

I remember our faculty member who provided us with much-needed guidance to pursue my interest. I worked under prof. A. K. Panchal as the summer research intern. We came up with a great idea to find PV solar panel parameters, and even after, we continued that work and published it in IEEE, Journals of Physics. My final thesis was under Prof A. Chowdhury where I learned lot about real work implements and challenges. So I encourage all students to discuss your passion with a faculty member they will help you grow quickly.

2)How do you think our college contributed in the journey to your current position?

It is true for me that college is where you grow quickly. Our college contributed a lot in my journey to reaching my current position. It provided me with a platform to explore different interests. I am blessed to get an environment where I learned from great peers and faculties. Colleges provided me with lab resource which is extremely useful in real industrial application. Throughout my undergraduate working with peers who are such a wide range of perspectives and idea helps me to learn quickly and see the problem from different perspectives.

Apart from studies, our college supports different clubs and extracurricular events which help me lots in my personal development. I still remember each year's tech and cultural fest "Sparsh".

3) What are your thoughts on job after higher education v/s starting the corporate journey directly after B.Tech?

In my opinion, it depends on the individual current position and the opportunity at hand. As a corporate where you work on the application base on education. Higher studies provide in-depth knowledge of the specialized role. This will boon for a further professional career.

After a B.tech individual gets general exposure to the field, Whereas certain types of roles require specialized knowledge of the domain like R&D, Engineering, etc, the Person needs to evaluate their current situation and select the field where his interest and long-term goal align. I strongly encourage students to talk with alumni who currently work in the same field of interest and decide what's the best thing.

4)Any guidance for the beginners to survive and succeed in this strong industry competition?

The current industry is evolving very rapidly, becoming more and more competitive with new technologies. Today company seeks candidates who quickly adapt to the environment and bring innovation.

From my point of view, the student should decide which career path which best for him in the early stage of his career and spend some time on what current industrial technologies and practices follow. Take part and some competitions which help to get an idea about company expectations from the candidate and what's current trends. Moreover, talk with the professor about your interest, and based on that try to work on projects. Always be willing to work hard, and don't afraid of the strong competitive environment



Kaushik Kukadiya

M.Tech (Artificial Intelligence)  
IISC, Bangalore

# ELECTRICAL ENGINEERING SOCIETY (EES)

Electrical Engineering Society is a techno-managerial club that conducts seminars, guest lectures, and other technical workshops and events and at the same time organizes informal and managerial events for students from all educational departments.

Following are the event descriptions of the events conducted in recent times:

## RECHARGE 2022

Recharge is the event that involves adding newly interested and eligible members from sophomores. This year the event was conducted from the 7th of September to the 9th of September. Interviews were conducted in offline mode in the Electrical Department building from 5:15 pm to 7:30 pm on the third floor. The questions were based on the candidate's choice of preference as well as those which consisted of general problem-solving.



Interviewing students for the committee

## TECH-X

TechX, a technical exhibition was conducted on the occasion of Engineer's Day on the 15th of September for the students of B.Tech, M.Tech, Ph.D., and faculties from SVNIT in collaboration with Co-Curricular Affairs Council. The exhibition was held in the Workshop Lab where Director Dr. Anupam Shukla and Dean Student Welfare Dr. Ravi Kant visited and gave their valuable input. Various student chapters such as DRISHTI, CEV, FSAE, And PHOENIX AERO showcased their projects that had topics ranging from rover and ai-ml to stock prediction models.



Technical Project Exhibition

# ELECTRICAL ENGINEERING SOCIETY (EES)

## COLLOQUY 1.0

Colloquy, a talk session on the advancement of motors in electric vehicles, was conducted by EES for the students of the third year pursuing B. Tech, M. Tech, Ph.D., and faculties from the Electrical department on 6th September 2022 in EED Seminar Hall. It started at 5:00 PM and lasted till 6:30 PM. The eminent speaker, Dr. Ragavan K is the Assistant Professor at IIT Gandhinagar. The talk session was immediately followed by an interactive Q&A session which included topics like; the future scope of Vehicle charging technology in India and its infrastructure requirement, and alternative power storage options for electric vehicles.

## COLLOQUY 2.0

Another talk session on 'Electric Vehicles: Challenges and Opportunities, was conducted for the students of second & third year pursuing B. Tech, M. Tech, Ph.D. and faculties from the Department of Electrical Engineering on 3rd October 2022 in EED Seminar Hall. It started at 5 PM and lasted till 7 PM. The eminent speaker was Professor Krishna Vasudevan from the Department of Electrical Engineering, IIT Madras. The talk was followed by an interactive Q&A session which included topics like; the future scope of Vehicle charging technology in India and its infrastructure requirements, capacity increment of batteries, High voltage DC generation, etc.



# ACADEMIC AFFAIRS COUNCIL (AAC)

Teachers are the role models to the young generation and are our guiding stars towards the correct path.

A message to all teachers by students:

Dear respected teachers,

We find immense pride in thanking our alma matter who play a great role in making what we are. We would love to start by thanking our respected Dean Academic Prof. S N Sharma sir. He has played a crucial role in making this event possible, and we would love to have your support sir for all the awesome events we will plan out in the future.

We take immense pleasure in thanking our head of the department Dr. AK Panchal sir for his support and wonderful teaching style. You teach us EM and it is a class we never dream of missing. Next, our heartfelt thanks go out to all the teachers, who are our second parents, who always stand by us, guide us, and motivate us to grow.

We can't forget the help that PhD and M. Tech students provide and make lab practical understandable and interesting.



Cake cutting ceremony on Teachers Day



Picture of Teachers day celebrations

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## TEAM

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**GANGIREDDY SUSHNIGDHA**  
ASSISTANT PROFESSOR  
DOEE SVNIT SURAT



**J.VENKATARAMANAIAH**  
ASSISTANT PROFESSOR  
DOEE SVNIT SURAT



**SURESH LAKHIMSETTY**  
ASSISTANT PROFESSOR  
DOEE SVNIT SURAT



**RAGHAV NUWAL**  
U20EE107  
3RD YEAR B,TECH



**DHRUVA WANKHADE**  
U20EE012  
3RD YEAR B.TECH.