



Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule
(Approved by AICTE, Recognized by DTE and Affiliated to DBATU, Lonere)

Department of Electrical Engineering

Vol. 5. January 2023

ELECTROTECH SCOOP

(The half yearly newsletter)





CHAIRMAN'S MESSAGE

Hon. Shri. Amrishbhai R. Patel

I am happy to see the fifth edition of newsletter “Electrotech Scoop” January 2023 edition under Electrical Engineering Department of SVKM’s Institute of Technology, Dhule. The newsletter/magazine is a communication medium for all students, staff, parents and friends to know the recent activities and developments that are taking place at the departmental level. I congratulate the Hon. Principal, HOD, Faculty Members, Technical staff, students and the editorial team for coming up with this new issue of newsletter/magazine for the department.

At SVKM’s Institute of Technology, we remain committed to give very best to the students under our assistance. I want to extend my heartfelt gratitude to all the parents, students, stakeholders who have put their trust in us and been a part of this wonderful journey of SVKM’s Dhule Campus.

Let's come together to work with vision of Trust “Pursuing Excellence in Education”



PRINCIPAL'S MESSAGE

Dr. Nilesh Salunke

I am very pleased to see the fifth edition of newsletter of Electrical Engineering Department “Electrotech Scoop” January 2023 edition.

The newsletter contains all the information related to student activities, achievements, faculty achievements, workshops and other activities conducted at the departmental level. Indeed, it is a canvass that has taken its forum through the contribution of all the concerned in the Department. I would like to congratulate the Head of Department as well as staff and students.

I wish many more activities, academic pursuits, and achievements coming across our path as we journey together to conquer the milestone with SVKM’s Institute of Technology, Dhule.



HOD'S MESSAGE

Dr. Vishal Moyal

I am very blissful to inform that Department of Electrical Engineering, has taken a leading role constructively in various development activities. The newsletter report highlights many evidences in the areas, such as, industrial visits, internship, training of students and faculties. A major area of focus during this Academic Year 2022-23 has been enhancement of formation of departmental student chapters in technical associations IEEE and ISTE.

The department continually strives to nurture the new relations with follow-up activities to strengthen the bond between academia and industry. Students got opportunities to learn in this new fashion and innovate through industry supported projects, internships, and guest lectures of eminent persons. Research papers have been published in the renounced national and international conferences by the department in this year which shows a healthy trend and positive look. This year I proud to express that our faculties are showing interest in research, one of our faculty has been awarded with Ph.D in this academic year and almost all faculties are pursuing Ph.D.

There are various professional bodies and organisations around the world that are vital to upskilling individuals. Professional bodies like IEEE, ISTE can often provide that link between education and industry. Professional bodies also include access to technical publications, Professional and educational development. Various Opportunities for Networking and Funding is opened to the professional body members to meet other people who share the same interest and start networking early.

The Institute of Electrical and Electronics Engineers (IEEE), a global professional organisation, provides IEEE Student members with a diverse range of scholarships. You will have access to our database of available funds to assist in financing your transition from student to young professional and beyond as a member. Student Travel Grants are among the numerous Education Funds supported by the IEEE Foundation. The purpose of these grants is to assist you in concentrating on your aspirations of developing your capabilities in non-local domains. A membership in IEEE provides a variety of advantages like Access to technical publications; Opportunities for professional and educational growth; Exclusive networking venues; Discounts on insurance programmes, conference attendance, and IEEE products.

The Indian Society for Technical Education (ISTE) is an organisation of professionals at the national level. Student members of the ISTE are granted the opportunity to engage in conferences, workshops, and other academic activities of their choosing at the chapter, section, and national levels. In order to assist and contribute to the production, ISTE provides technical institution students with high-quality training programmes that allow them to update their expertise and knowledge in their respective disciplines. ISTE makes significant contributions to the Union Government's numerous initiatives as the sole national organisation representing educators specialising in engineering and technology. For technical education-related programmes, the Ministry of Human Resource Development, CTE/DST/MIT, and state governments are strong allies of the ISTE.

- Mr. Sandeep Ushkewar

INSTITUTE VISION

To be a socially sensitive engineering institute of excellence adding value to the nation.

INSTITUTE MISSION

1. To provide resources of excellence with a focus on nurturing and developing the society.
2. To strive to be an institute of global recognition.

DEPARTMENT VISION

To nurture technically efficient and socially responsible Electrical Engineers, capable of meeting society's future requirements and environmental challenges.

DEPARTMENT MISSION

M1: To improve academic infrastructure in the field of Electrical Engineering, resulting in high-quality professionals, by utilizing modern technology and design automation tools.

M2: To provide industry with technically educated and globally competent Electrical Engineers.

M3: To inculcate passion for learning and encourage creativity to serve society.

PROGRAM EDUCATIONAL OBJECTIVES (PEO'S)

PEO1: To develop the ability of solving engineering problems using the fundamentals of science and mathematics.

PEO2: To create the ability to use design automation tools and design for addressing social and industrial challenges.

PEO3: To encourage graduates for higher education, careers in research and entrepreneurship to work as part of a team with leadership skills.

PROGRAM SPECIFIC OUTCOMES (PSO'S)

PSO1: Graduate will apply Electrical Engineering knowledge effectively in the context of environmental and social concerns.

PSO2: Graduates will exhibit their understanding of electrical engineering for systems design and experimentation.

PSO3: Graduates will strive to pursue lifelong learning and leadership prospects.

PROGRAM OUTCOMES (PO'S)

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

FACULTY MEMBERS



Dr. Vishal Moyal
Associate Professor
and Head of the Department



Dr. Namra Joshi
Associate Professor



Dr. M. Ankush Kumar
Assistant Professor



Mr. Sandeep Ushkewar
Assistant professor



Mr. Gaurav Patil
Assistant Professor



Mr. Jagdish More
Assistant Professor



Ms. Farha Naz
Assistant professor



Mr. Shahid Akhtar
Assistant Professor



Mr. T. M. Shubham
Assistant Professor

TECHNICAL ASSISTANTS



Mr. Rahul Thakur
Technical Assistant



Mr. Jayesh Patil
Technical Assistant



Mr. Pankaj Bhavsar
Technical Assistant

FACULTY PUBLICATIONS

S. No.	Name of the Faculty	Title of the paper	Name of the Journal/Conference	Indexing	Date of Publication
1	Mr. Sandeep Ushkewar	Wireless Charging in a Dynamic Environment for Electric Vehicles	IEEE Bombay Section Signature Conference 2022	SCOPUS	08-10 December 2022
		Enhancing Capabilities of Wireless Transmission for Electric Vehicles	IEEE Global Energy Conference 2022 (GEC 2022)	SCOPUS	26-29 October 2022
2	Mr. Gaurav Patil	Computation of Mass Spring Damper System Using Matlab	Journal Of East China University of Science And Technology	SCOPUS	
		The Current State of the Art for PV Grid Connected System Issues with Power Quality	International Interdisciplinary Humanitarian Conference for Sustainability (IIHC-2022)	SCOPUS	18-19.November.2022
		Comparative analysis of power quality issues in grid integrated wind energy system	International Interdisciplinary Humanitarian Conference for Sustainability (IIHC-2022)	SCOPUS	18-19.November.2022
		A Review on Grid Integration Challenges of Wind Energy Systems	International Journal of Engineering and Management Research	Scilit	31-08-2022
3	Dr. M. Ankush Kumar	Comparative Analysis of Artificial Intelligent Controllers Based Intentional Islanding Algorithm for Distributed Energy Resources (DERs) in Disaster Management	Journal of Electric Power Components and Systems by Taylor and Francis	SCI	8-Nov-22

FACULTY CONTRIBUTIONS

Faculty Achievements		
S. No.	Name of the Faculty	Details of Achievement
1	Mr. M. Ankush Kumar	Awarded with “Doctor of Philosophy” in December 2022 from Jawaharlal Nehru Technological University Hyderabad.
2	Mr. Sandeep Ushkewar	Received an appreciation Letter from IEEE Bombay Section Education Activities Committee for the contributions as a Secretary of the society.

Faculty Attended FDPs/STTPs				
S. No.	Name of Faculty	Title	Start Date	End Date
1	Dr. Vishal Moyal	MATLAB and SIMULINK basics for Hardware Projects	1.Aug.2022	5.Aug.2022
		Online Orientation Training Programme for Mentors	22.Aug.2022	26.Aug.2022
		National Symposium on Academic Challenges Towards Implementation of NEP in HEI's	29.Sep.2022	30.Sep.2022
		Research Scope in Electric Vehicles	05.Dec.2022	9.Dec.2022
		Recent Trends in Power System	13.Dec.2022	17.Sep.2022
		Recent Trends in AI, Machine Learning and Data Science	26.Dec.2022	31.Dec.2022
2	Dr. Namra Joshi	Received “Elite Certification” in a 8 Week FDP on ‘Roadmap for Patent Criterion’.		
		MATLAB and SIMULINK basics for Hardware Projects	1.Aug.2022	5.Aug.2022
		Tools for Engineering Research	19.Sep.2022	23.Sep.2022
3	M. Ankush Kumar	Tools for Engineering Research	19.Sep.2022	23.Sep.2022
		Power Electronics for Renewable Energy Applications	04.Nov.2022	31.Dec.2022
		Research Scope in Electric Vehicles	05.Dec.2022	9.Dec.2022
		Recent Trends in Power System	13.Dec.2022	17.Sep.2022

S. No.	Name of Faculty	Title	Start Date	End Date
4	Mr. Sandeep Ushkewar Mr. Sandeep Ushkewar	MATLAB and SIMULINK basics for Hardware Projects	1.Aug.2022	5.Aug.2022
		CAD using Solid Work	12.Sep.2022	16.Sep.2022
		Tools for Engineering Research	19.Sep.2022	23.Sep.2022
		Power Electronics for Renewable Energy Applications	31.Dec2022	04.Nov.2022
		Research Scope in Electric Vehicles	05.Dec.2022	9.Dec.2022
		5 Days Face to Face UHV-II FDP	16.Aug.2022	20.Aug.2022
4	Mr. Gaurav Patil	MATLAB and SIMULINK basics for Hardware Projects	1.Aug.2022	5.Aug.2022
		Power Electronics for Renewable Energy Applications	31.Dec2022	04.Nov.2022
5	Mr. Jagdish More	MATLAB and SIMULINK basics for Hardware Projects	1.Aug.2022	5.Aug.2022
		Recent Trends in Power System	13.Dec.2022	17.Sep.2022
6	Ms. Farha Naz	MATLAB - Artificial Intelligence and Optimization Techniques	21.Nov.2022	25.Nov.2022 8
		Power Electronics for Renewable Energy Applications	31.Dec2022	04.Nov.2022
		Recent Trends in Power System	13.Dec.2022	17.Sep.2022
		Tools for Engineering Research	19.Sep.2022	23.Sep.2022
7	Mr. T.M. Shubham	Internet of Things II	25.June.2022	11.August.2022
8	Mr. Shahid Akhtar	MATLAB and SIMULINK basics for Hardware Projects	1.Aug.2022	5.Aug.2022
		Tools for Engineering Research	19.Sep.2022	23.Sep.2022
		Power Electronics for Renewable Energy Applications	31.Dec2022	04.Nov.2022
		Research Scope in Electric Vehicles	05.Dec.2022	9.Dec.2022
		Recent Trends in Power System	13.Dec.2022	17.Sep.2022

SEMINAR

A seminar on RTI is organized on 28th September 2022 in the department with following objectives:

1. To bring awareness about RTI in students
2. To describe the importance of RTI in legal affairs to students
3. To provide the details of application of RTI
4. To provide the fee structure and time requirements of RTI
5. To describe the limitations and rules of RTI



EXPERT TALK

A competitive exam helps select students for the various job strata. Selected candidates from these exams are trained for jobs in their respective fields. They are conducted at various levels. These competitive exams in India are highly competing and require time and effort to clear. With this context, an expert talk was organized for the students of Electrical Engineering on 09th December 2022.

Speaker: Mr. Gaurav Patil, Assistant Professor, Electrical Engineering.



IEEE STUDENT CHAPTER

The students branch of Institute of Electrical and Electronics Engineers was inaugurated by Mr. Anand Gharpure, Director, Sonic Multitech Pvt. Ltd., Nashik and Chair Elect IEEE Bombay Section and Honorable Principal Sir Dr. Nilesh Salunke on 28th September 2022.



IEEE SPONSORED GUEST LECTURES

IEEE Sponsored Guest Lecture was organized in continuation to the chapter inauguration on “Blockchain Application for Enhancing the Security of Renewable Energy Systems” by Dr. Adil Sheikh, Assistant Professor, Electrical Engineering Department, St. Francis Institute of Technology, Mumbai.



An another Guest Lecture was organized on “Internet of Things-Opportunities & Challenges” by Prof. Dattaray Sawant, Assistant Professor, Mechatronics Department, MPSTME, Vile-Parle, Mumbai.

INAUGURATION OF ISTE STUDENT CHAPTER



On the occasion of Engineer’s Day: the birth anniversary of sir Mokshagundem Vishweswaraya, the students chapter of Indian Society for Technical Education (ISTE) was inaugurated by Dr. Nilesh Salunke, Principal, SVKM’s IOT, Dhule on 15th September 2022.

FACULTY DEVELOPMENT PROGRAMS

A one week FDP on “Research Scope in Electric Vehicles” was organized in the Department in collaboration with NITTTR Chandigarh to throw light on the scope of research in the areas of power quality issues in EVs, battery management system of EVs, HIL testing of controller using OPALRT and EV hardware demo during 05/12/2022 to 09/12/2022.



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 Belland Gurdawara, Mumbai-Agra Highway, Dhule 424001.

Nodal Centre for Faculty Development Program
 Conducted by
Electrical Engineering Department
National Institute Of Technical Teachers Training And Research (NITTTR) Chandigarh.

Faculty Development Program on
Power Electronics for Renewable Energy Applications

31.10.2022 to 04.11.2022 (One Week)

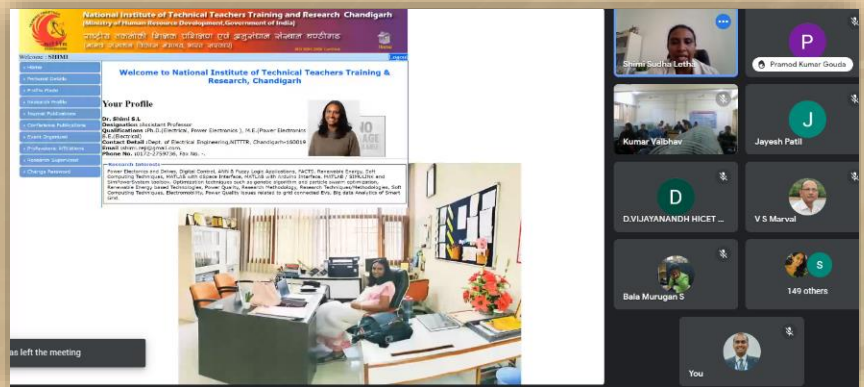
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A one week AICTE recognized FDP on “Power Electronics for Renewable Energy Applications” was organized in the Department in collaboration with NITTTR Chandigarh to create a platform for researchers of college and outside participants during 31/10/2022 to 04/11/2022.



A one week FDP on “MATLAB and Simulink Basics for Hardware Projects” was organized in the Department in collaboration with NITTTR Chandigarh to train researchers with the software tools like MATLAB/Simulink and dSPACE integration with hardware application during 01/08/2022 to 05/08/2022.



A one week FDP on “Tools for Engineering Research” was organized in the Department in collaboration with NITTTR Chandigarh to train engineers of college and outside participants with the research tools such as Plagiarism, Mendeley, PRISMA Flow and LaTeX software during 19/09/2022 to 23/09/2022.

INDUSTRIAL VISITS

Suvij Electricals Pvt. Ltd. Dhule has a vast experience in designing and development of transformers and electrical components. With this context, the department had organized a one-day educational visit to Suvij Electricals Pvt. Ltd., Dhule on 24th November 2022.



The electric traction system is the most efficient of all other traction systems such as steam and internal combustion (IC) engine type systems. With this context, a one-day educational visit was organized to Central Railway Station, Dhule on 23rd November 2022.

SHORT TERM TRAINING COURSE

Department has organized a five-day training program on “Recent trends in power systems” from 13th of December 2022 to 17th of December 2022. The training program has provided a platform to share the cutting edge development in the field of power systems.



Speakers:

1. Dr. R. S. Tare, Retired Professor, SGITS, Indore.
2. Dr. Suresh Deshmukh, Professor, ICT Mumbai.
3. Dr. Sudhir Bhil, Dean Diploma, VJTI, Mumbai.
4. Dr. N. M. Pawar, Associate Professor, MGM College of Engineering and Technology, Navi Mumbai.
5. Dr. A. P. Chaudhari, Associate Professor and Head, Electrical Engineering Department, SSGB College, Bhusaval.
6. Dr. Vishal Moyal, Associate Professor & Head, Electrical Engineering Department, SVKM's Institute of Technology, Dhule.
7. Dr. N. R. Joshi, Associate Professor, Electrical Engineering Department, SVKM's Institute of Technology, Dhule.

PARENT – TEACHER MEETING



To create a platform for the interaction of between faculty and parents, parent – teacher meeting was organized in the Department on 03rd September 2022.

Departmental achievements were highlighted to the parents. Suggestions from parents were collected for improvements.



IIC EVENTS

SVKM's Institute of Technology have established Institute Innovation Council (IIC) as per the norms of Innovation Cell, Ministry of Education, MHRD, Government of India. Under this council, department has organized a Quiz Contest "QUIZOMANIA - 2022" on theme R & D on 26.11.2022.



STUDENT'S ACHIEVEMENTS



S. No.	Name of the Student	Name of the event	Level
1	Manas Mali	Running	Zonal
2	Riya Patel	Basket Ball	Zonal
3	Surabhi Gupta	Basket Ball	Zonal
4	Tanishka Jadhav	Basket Ball	Zonal



STUDENT'S ACHIEVEMENTS - PLACEMENTS

DTE Code: 5449

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Congratulations!
For getting selected in

Package **7.0 LPA**

**TCS TATA
CONSULTANCY
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Ms. Kanchan Deore
System Engineer

Batch: 2022-23
Department of Electrical Engineering

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Behind Gurudwara, Mumbai-Agra Highway, Dhule 424001.

Congratulations!
For getting selected in

Package **4.17 LPA**

genpact


Mr. Rohit Bhadane
Technical Assistant

Batch: 2022-23
Department of Electrical Engineering

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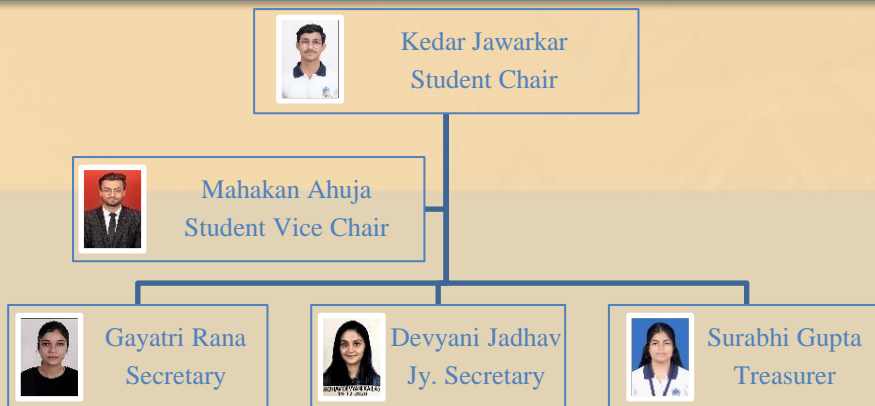
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S. No.	Name of the Student	Name of the employer	Package in LPA
1	Bhamre Sunidhi Subhash	Careerlabs Pratian Innovation Campus, Bangalore, Karnataka.	3.50
2	Patil Aayush Jagatrao	Careerlabs Pratian Innovation Campus, Bangalore, Karnataka.	3.50
3	Sonawane Jagadish Dipak	Careerlabs Pratian Innovation Campus, Bangalore, Karnataka.	3.50
4	Jadhav Jagruti Dipak	Careerlabs Pratian Innovation Campus, Bangalore, Karnataka.	3.50
5	Bhingare Shivam Bhausaheb	Focus Edumatics, Bengaluru, Karnataka.	2.50
6	Mali Tushar Balasaheb	Focus Edumatics, Bengaluru, Karnataka.	2.50
7	Pawar Amit Ganesh	Focus Edumatics, Bengaluru, Karnataka.	2.50
8	Sonawane Yogesh Vidyanand	Focus Edumatics, Bengaluru, Karnataka.	2.50
9	Lonari Pravin Amrut	Focus Edumatics, Bengaluru, Karnataka.	2.50

MEMBERS OF IEEE



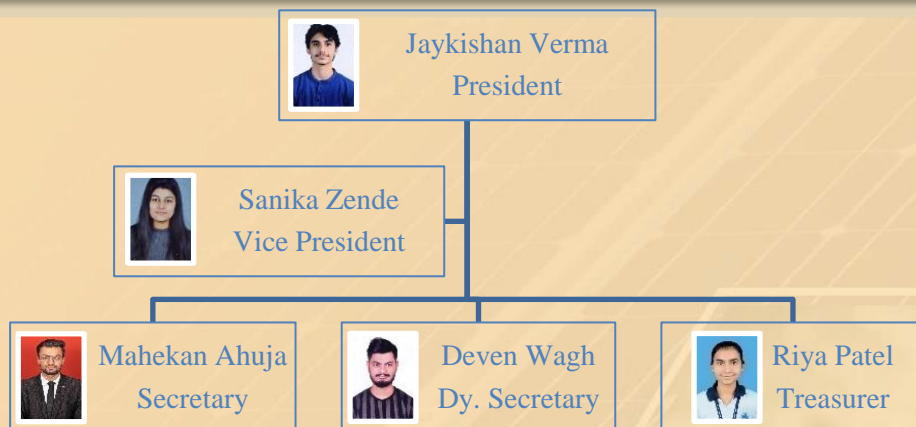
Mr. Sandeep Ushkewar
IEEE Student Branch Counselor



MEMBERS OF ISTE



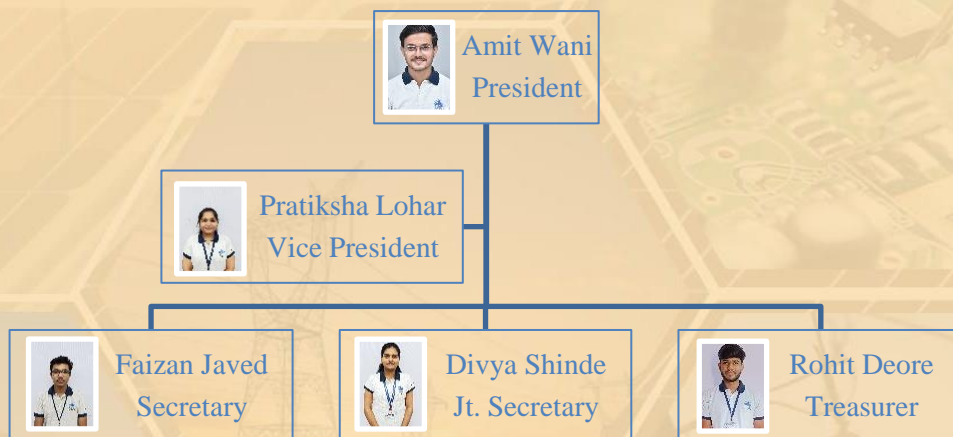
Mr. Sandeep Ushkewar
ISTE Faculty Advisor



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