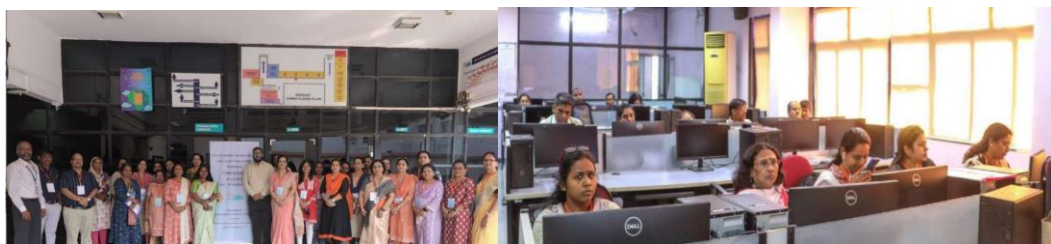


**SIES GRADUATE SCHOOL OF TECHNOLOGY, NERUL, NAVI MUMBAI**  
**Department of Electronics and Telecommunication**  
**Annual Report 2024-25**

**Department Achievement:**

- Organized AICTE Training And Learning (ATAL) Academy Faculty Development Program on Cyber Security at SIES GRADUATE SCHOOL OF TECHNOLOGY from 06/01/2025 to 11/01/2025 which is funded by AICTE of Rs.3.5 Lakh.



- IEEE SIESGST Organized a National Technical event “Techopedia 13” during 23/1/2025 to 24/1/2025.



**Collaboration (MoUs and other extra ordinary achievements)**

- Signed MoU with Inventronics , Mumbai on 4/7/2024.
- Signed MoU with EnergySpeak ,Mumbai on 5/8/2024.

**Initiatives:**

- Organized AICTE Training And Learning (ATAL) Academy Faculty Development Program on Cyber Security .

**Sports achievements of students:**

- Mr. Apurva Rahate , Mr. Mayuresh Abhang, Mr.Vedant Mankar, Mr. Raj More, Mr. Vignesh Mudaliyar, Mr.Sanket Katake, Mr.Nirav Lokhande, Mr.Yash Juvekar and Mr. Pranav Deshmukh Won the Kabaddi competition organized by SIESGST during TML2025.
- Mr. Aryan Thakur, Mr. Apurva Rahate ,Umair Khan and Rishi Srivastav won the Basket ball competition organized by SIESGST during TML 2025.
- Ms. Prerna Aswal , Runner up in Inter collegiate Badminton Tournament-Woman held Mumbai University in October 2024.

**Academic/Technical achievements of students:**

- Advait Varma , Chetana Dhongade , Atharva Hadawale and Shubham Jadhav received best paper award for the paper “Antenna design for AIS application” in ICE4IT IEEE Conference held at SIESGST, Nerul.



- Rushikesh Sawant, Arghya Das, Atharva Kotkar and Adinath Patil secured first prize of Rs.7000/- in national FCIRT Avishkar 2025 project competition held at Fr. Agnel Vashi.
- Mr. Atharva Kotkar, Mr. Arghya Das, Mr. Rushikesh Sawant and Mr. Adinath Patil Cleared and reached upto the final round of University Level project competition "AVISHKAR" for the project Title" RAH BoT".
- Mr. Arghya Das, Mr. Rushikesh Sawant, Mr. Atharva Kotkar and Mr. Adinath Patil's project Title" RAH BoT" received 4th nomination in CIIA held at Nehru Planetarium, Warali on 7/2/2025.



- Mr. Arghya Das, Mr. Rushikesh Sawant, Mr. Atharva Kotkar and Mr. Adinath Patil' were the winner of Cognition ,Project presentation held at SIES GST on 23rd October 2024.
- Mr. Krish Yagyik ,Mr. Dhurv Singh , Mr. Rohit Sharma and Ms. Purna Sharma our third year students wins second prize in Mini project competition for the project title “Audio Routing System” organized by A.C. Patil college of engineering., Kharghar on 18/10/2024.
- Mr. Aditya Dikonda ,Mr. Vedant Bhosale, Mr. Bobby Mehta and Mr. Raj Nimbalkar our third year students wins third prize in Mini project competition for the project title “2D Plotter” organized by A.C. Patil college of engineering., Kharghar on 18/10/2024.
- Mr. Aditya Dikonda secured a grant of Rs.10,000 for his startup AVBORT from SIES incubation center.

- Ms. Gouri Houlgoul, TE EXTC secured first place at technical paper presentation competition held at KJSIEIT, Sion.
- Ms. Gouri Houlgoul, TE EXTC secured first place at technical paper presentation competition held at KJSIEIT, Sion in October 2024 and won 1st Place in Presentation Pro Thesis Mechatronics at S.I.W.S 2025 in January 2025.
- Ms. Gauri Hoilgol Won third prize at Sparkathon hosted by Indala college of Engineering for the title " Dine Decide-a data driven solution for restaurant owners and got some amazing feedback on 20/3/2025.



- Anushka Potdar, Aditya Umesh, Aditi Kurhekar and Sharvari Kulkarni Won Second prize of Rs.6000/- in Texchxter-14 organized by SIESGST on 21/3/2025.
- Yash Indulkar, Rahul Ganoliya, Raj Vaity, Viany Avula Received second prize Rs.2000/- in Resilience Tech master an inter college project competition held at Sabo Siddhik college of Engineering, Mumbai on 27/2/2025.
- Raj Nimbalkar, Aditya Dikonda, Bobby Mehta and Vedant Bhosle secured third prize in Inter college mini project competition on 18/10/2024, organized by A. C. Patil college of Engineering, Kharghar, Navi Mumbai.

### Paper Publications by Students:

Sr. No.	Group Members	Title of the Paper	Conference/Journal Name
1	Shraddha Satpute	Qualitative Analysis of Vending Machine Technology	International Journal of Innovative Research in Computer and Communication Engineering (IJRCCE)
	Chinmayee Patil		
	Sakshi Phanse		
	Prathamesh Salunkhe		
2	Chirag Rane	Exploring traditional and modern techniques in fruit disease detection and classification with IoT integration: A comprehensive survey	World Journal of Advanced Research and Reviews.
	Adinath Kulkarni		
	Shivani Barge		
	Chinmayee Dhande		
3	Anushka Potdar	Evolution of IoT enabled logistics: A	
	Aditi Kurhrekar		

	Sharvari Kulkarni	survey on tracking, monitoring and cold chain management	International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)
	Aditya Umesh		
4	Prasad Reshim	Legal chatbot and document generator using ReFlaPsy	World Journal of Advanced Research and Reviews (WJARR) is an International Journal for publication of Research
	Rushikesh Patil		
	Sai Bhor		
	Atharva Mahajan		
5	Advaith Varma	Antenna design for AIS application	IEEE ICE4IT conference
	Chetana Dhongade		
	Atharv Hadawale		
	Shubham Jadhav		

### Research Grants/Paper publications/Achievements:

1. Dr. Preeti Hemnani published a paper Evaluating Sentiment Analysis Models: A Comparative Analysis of Vaccination Tweets During the COVID-19 Phase Leveraging DistilBERT for Enhanced Insights in Methods X SCI index journal on 30/5/2025.

2. Prof. Shyamala Mathi published a paper A Review Of Convolutional Neural Networks For Medical Image Analysis: Trends And Future Directions in Journal of Neonatal Surgery, Scopus Index journal on 5/5/2025.

3. Dr. Swati Rane published a paper on Legal chat bot and document generator using ReFlaPsy in World Journal of advanced Research and Reviews in April 2025.

4. Prof. Vaishali Mangrulkar published a paper on title “Evolution of IoT-Enabled Logistics: A Survey on Tracking, Monitoring, and Cold Chain Management” in IJIRCCE journal April 2025.

5. Prof. Biju B published a paper "Multilingual Voice Based Vending Machine" IEEE Xplore on 26/2/2025.

6. Dr. Preeti Hemnani published paper "Real-time Monitoring and Analysis through Video Surveillance and alert generation for prompt and immediate response “in International Journal of Computer Science and Applications(IJACSA).

7. Prof. Biju B. Presented a paper “Multilingual Voice Based Vending Machine” at the 2 nd IEEE International Conference on recent trends in Microelectronics, Automation, Computing and Communication Systems (ICMACC 2024) hosted by Circuits and Computing Branches of VNR Vignana Jyothi Institute of Engineering & Technology in association with IEEE Hyderabad Section, 19-21, December 2024.

8. Dr. Preeti Hemnani published a paper “Optimizing Stroke Risk Prediction Using XGBoost and Deep Neural Networks” in International Journal of Computer Science and Applications(IJACSA).

9. Dr. Preeti Hemnani presented paper ' Solar panel Fault detection using Machine learning and solar Tracker ' in ACOIT IEEE conference on 6/9/2024 .

10. Prof. Vandana Sawant published a paper titled “A dynamic approach to sign language recognition” in IJRAR in July 2024.

11.Dr. Preeti Hemnani successfully completed 4 week NPTEL FDP course on Python for data science with Silver + Elite certificate.

12.Prof. Biju B. successfully completed 12 week NPTEL FDP on Communication Networks with Silver + Elite certificate.

13..Prof. Vandana Sawant successfully completed Coursera course on Cyber security for everyone.

14..Prof.Pratibha Joshi successfully completed 8 week NPTEL course on Cloud computing and distributed systems with Elite certificate.

15..Prof. Vaishali Mangrulkar successfully completed 8 week NPTEL course on Cloud computing and distributed systems with Elite certificate.

16. Organized AICTE Training And Learning (ATAL) Academy Faculty Development Program on Cyber Security at SIES GRADUATE SCHOOL OF TECHNOLOGY from 06/01/2025 to 11/01/2025 which is funded by AICTE of Rs.3.5 Lakh. Program is coordinated by Dr. Preeti Hemnani and Co-coordinated by Prof. Priyanka kadam and Prof. Vandana Sawant.

### **Seminars/Workshops organized/attended by Faculty of GST:**

- Prof. Biju B. Organized a webinar on occasion of National Technology Day by Mr. Ramanathan Seshan on 11/5/2025.
- Prof. Vaishali Mangrulkar and Prof. Pratibha Joshi organized and conducted value added course on Introduction to Arduino,Rpi and IoT during Jan 2025 to February 2025.
- Dr. Preeti Hmnani and Prof. Pranavi Nikam organized and conducted value added course on Workshop on Digital System Design on FPGA Using Verilog during January to February 2025.



- Prof. Biju B and Prof. Vaishali Mangrulkar organized WiE Series Episode 1:Seminar on Entrepreneurship and Startups by Ms. Aparna Kshirsagar,Co-founder and head of Business Development at Frozculina Tech Services,Mumbai on 3/3/2025.





- Prof. Biju B and Prof. Vaishali Mangrulkar organized WiE Series Episode 2: Seminar on finding calm: Stress management through meditation by Dr. Sunita Jain, HoD of Pediatric department, MGM and Madhavi Patil, Leads Yogam Isha Hatha Yoga Studio in Navi Mumbai on 6/3/2025.
- Prof. Biju B and Prof. Vaishali Mangrulkar organized WiE Series Episode 3: Taking Stage Leadership and all by Ms. Priti Mumshi, Senior lead-Technology and Transformation on 8/3/2025.
- Prof. Biju B and Prof. Vaishali Mangrulkar organized WiE Series Episode 4: Women of Impact: Bold, Brave and Beyond by Ms. Sajitha Nair, HoD of Pedagogy and Innovation in Sacred Heart School on 8/3/2025.
- Prof. Priyanka Kadam organized Handon session on :Implementation of Retrieval-Augmented Generation(RAG) System by Dr. Pranita Mahajan Sr. Data Scientist at Rolex elsevear on 19/3/2025.
- Prof. Shyamala Mathi Organized a workshop on Accelerating Learning with AI by Mr. Shubham Dumbre, Founder, Delta The Innovators on 18/3/2025.



- Prof. Shyamala Mathi Organized a Expert session on “From Idea to Impact: Navigating the Entrepreneurial Journey in a Tech-Driven World”by Mr. Parth Deo, Business and Operations Leader on 19/3/2025.
- Prof. Pratibha Joshi organized a expert session by Daryl Thomas,Co-founder and CTO at Greenoxtech on 12/3/2025.



- Dr. Preeti Hemnani and Prof. Pranavi Nikam organized Awareness Session on - Career Opportunities for Engineers in Defence by Mr. Sagar Singh on 3/2/2025.
- Prof. Pranavi Nikam Organized workshop on "Circuit design and simulation : Altium, Kicad, and proteus for students on 15/2/2025 by Ms. Samiksha Kamble , Embedded Hardware Engineer (Hexamodel Technology).



- Prof. Vaishali Mangrulkar organized expert talk on “Telecom service provider IT Systems: Enabling Customer Delight” for TE and BE students by Mr. Aiyappan Pillai, CEO and Founder of Congruent Services, Mumbai on 12/2/2025.



- Prof. Vandana Sawant organized expert talk on Future as an EXTC Engineer in RF Field by Mr. Ojas Savarkar IoT Manager, R&D Department, Human Ventures Pvt. Ltd. Mumbai on 10/2/2025.
- Prof. Pratibha Joshi organized a expert session on “Effective paper writing by Dr. Pooja Singh, Assistant Professor at SIESGST on 18/2/2025.
- Dr. Swati Rane organized Expert Talk on DVLSI domain by Mr. Rachith Kushalappa , NVIDIA,Mumbai on 14/2/2025.
- Prof. Vandana Sawant organized guest lecture by Mr. Jatin Bhosale, Embedded Engineer, R&D Department, Endee Engineers, Mumbai on 19/9/2024 , topic Product Engineering: Electronic System Design.
- Prof. Vaishali Mangrulkar,organized expert Talk by Dr.Manoj Kavedia,Kaizen Futuretech,Mumbai on 19/9/2024 topic IoT in Robotics.
- Prof. Biju B ,IEEE SIESGST organized technical event- Techopedia 13 during 23/1/2025 to 25/1/2025.
- Dr. Priti Hemnani and Dr. Swati Rane organized expert talk on topic “Job opportunities in VLSI/Semiconductor industry“ by Mr.Uday Shankar ,Alumni 2007 pass out , Staff Engineer and Manager at Arm ,USA on 23/10/2024.
- Prof. Biju Balkrishnan Organized IEEE Day 2024 celebration on 1/10/2024.





- Prof. Biju Balkrishnan Organized Technozine Annual Book Revealing Ceremony and IEEE Investiture ceremony on 4/10/2024.
- Prof.Biju Balkrishnan organized session on Carrier guidance and profile building by Tanvi Sharma ,Senior counsellor at Collegepond on 24/7/2024 for all students.
- Organized Industry Visit for faculties at Yotta Data Center ,Panvel on 10/1/2025



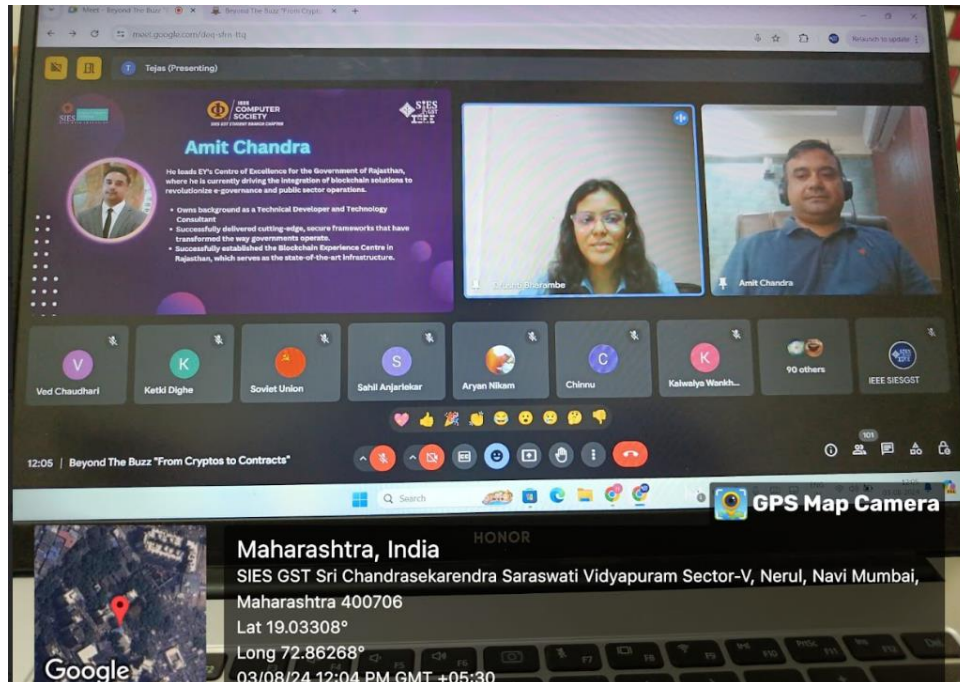
- Organized Industrial visit for students at Acumen PVt Ltd ,Turbhe on 4/4/2025 :



- Prof.Biju B organized IEEE SIESGST" EPSILON 2024" 3-day international Technical Symposium during 14/9/2024 to 16/9/2024.



- Prof. Biju B organized IEEE SIESGST Webinar on AI Driven Networks on 6G Communication by Mr. . Sandeep Sharma on 2/3/2025.
- Prof. Biju B organized IEEE SIESGST session on Blockchain: Beyond the Buzz "From Cryptos to Contracts"by Mr. Amit Chandra on 3/8/2024.



- All faculties successfully participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on Cyber Security at SIES GRADUATE SCHOOL OF TECHNOLOGY from 06/01/2025 to 11/01/2025.
- Pratibha Joshi participated & completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on mmWave Technologies at VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY from 13/01/2025 to 18/01/2025.
- Dr. Preeti Hemnani ,Dr. Swati Rane ,Prof. Biju Balakrishnan , Prof. Vandana Sawant ,Prof.Pratibha Joshi and Prof. Priyanaka Kadam attended ISTE approved FDP on Generative AI during 9/12/2024 to 14/12/2024,organized by SIESGST.
- Prof.Vaishali Mangrulkar attended one Day Workshop on Academic Writing" held on July 24, 2024, organized by SIESLLD ,Conducted by Dr. Pratima Sheorey at Nerul.
- Dr. Swati Rane , Prof. Vandana Sawant , Prof.Shyamala Mathi and Prof. Vaishali Mangrulkar attended 3 days AICTEE's FDP on Universal Human Values ,organized by SIESGST during 21/8/2024 to 23/8/2024.
- Prof. Biju B. worked as a visiting Expert for Department Quality Assurance Committee at Fr. C. Rodrigues Institute of Technology, Navi Mumbai on 29/11/2024.

## Alumni Activity:

1.Mr. Rachith Kushalappa , NVIDIA, Mumbai ,2006 pass out alumni delivered a expert talk on DVLSI domain for students on 14/2/2025.

2.Mr. Sagar Singh ,2019 pass out alumni delivered a awareness Session on - Career Opportunities for Engineers for students on 3/2/2025.

3. Expert talk on “Job opportunities in VLSI/Semiconductor industry“ by Mr.Uday Shankar ,Alumni 2007 pass out , Staff Engineer and Manager at Arm ,USA on 23/10/2024.

4. Mr.Arun Nadar and Mr.Medhansh Mahto , 2020 passout alumni invited as a judge for SE and TE Project competition Cognition 2024.

SIESGST