SIES GRADUATE SCHOOL OF TECHNOLOGY, NERUL, NAVI MUMBAI

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

Annual Report 2021-22

Collaboration (MoUs and other extra ordinary achievements)

1. Signed MoU with Maven Silicon Softech Private Limited , Bangalore on 16/11/2021.
2. IEEE Student branch received "The Darrel Chong Student Activity Award 2021- Bronze Medal "for the event Techopedia 9.0 on 10/12/2021.

3. IEEE Student branch received Best branch award in IEEE Bombay section Young Professional Meet-Up 2021 on 30/10/2021 .
4. Prof.Biju Balkrishnan promoted as an IEEE Senior member.

IEEE Regional Exemplary Student Branch
Award 2021

Presented to:

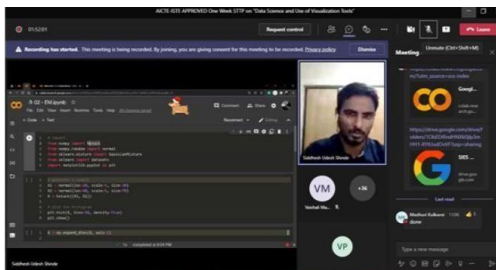SIES Graduate School of Technology

Bombay Section, R10

For exemplary performance as an active IEEE Student Branch offering technical programs,
activities, professional networking opportunities that enable members in building critical skills.

20th December 2021
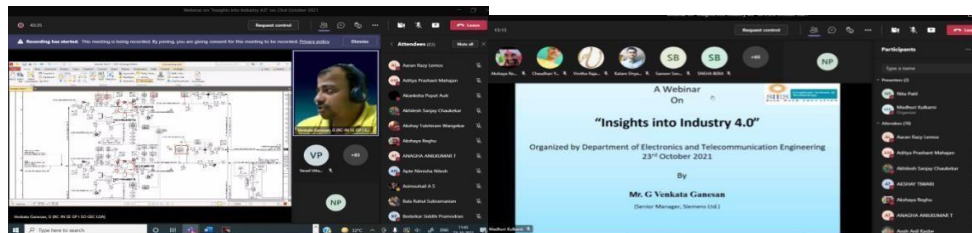
Susan K. (Kathy) Land
IEEE President 2021

Initiatives:

- Department along with CE and IT has organized ISTE Approved One Week STTP on " Data Science and Visualization Tools " during 6/12/2021 to 11/12/2021.

- Organized Webinar on "Insights into Industry 4.0" on 23/10/2021 .The session was conducted by an expert Mr. G Venkata Ganesan, Senior Manager, Siemens Ltd.

- Organized seven day National technical festival Techopedia-X by IEEE students branch during 14/2/2022 to 20/2/2022.Six events Sqabble, Inquisitive ,Technopreneur ,Quantum Break ,Nexus and Labyrinth conducted during technical festival.

Academic/Technical achievements of students

- Shubham Mishra IEEE Outstanding Student Volunteer: Shubham Mishra IEEE India Council Awards – 2021
- IEEE has appointed Mr. Prathamesh Thakur as the Ambassador of IEEE Xtreme 15.0
- Ms.Shruti Tiwari, Ms. Shruti Gope ,Ms.Shravya sai , Mr. Vatsal Kore and Mr.Kunal Tamhane
- Received prize of Rs.5000 per student during their Industry Internship Project in Efficient Innovations , Mumbai.
- Mr. Vyom Pandey, Pradyumn Joshi, Mr.Deepanshu Singh and Mr. Swapnendu Mukharji Received prize of Rs.2500 per student during their Industry Internship Project in Efficient Innovations , Mumbai.

Publications by Students

Sr No.	Name of students	Title of Paper	Conference/Journal
1	Prashant Kale	Fake news detection using machine learning	2nd International conference on Automation, Computing and Communication
2	Suyash Karwande		
3	Rhucha Keskar		
4	Prasad Kulkarni		
5	Sumit Bhanse	Smart Walking stick using Rpi and Tensorflow	Paper published in IJRAR
6	Akash Bagav		
7	Dheeraj Dayakaran		
8	Ramesh Gurjala		
9	Gauri Ramanathan	Cataract detection using machine and deep learning	IEEE
10	Diya Chakrabarti		
11	Aarti Patil		
12	Sakshi Rishipathak		
13	Cibin Chandrasekhar	Model Efficiency Analyzer using ML	JASC
14	Harsh Ramesh		
15	Payal Chaube		
16	Sharayu D		
17	Vaibhavi Deo	Image caption generation using CNN and LSTM	Published in International Journal of All Research Education & Scientific Methods
18	Tanvi Joshi		
19	Divya Shanbhag		
20	Aditya Ram		
21	Sameep Khandekar	Sentiment Analysis Using Natural Language Processing	Published in journal-IJSDR
22			
23	Mayur Parab		
24	Shreyans Shetty		
25	Siddesh Chaudhari		
26	Shivamari pillai	LoRa based home automation system	Published in IJCEA journal,
27	Vishal salvi		
28	Suraj sharma		
29	Abhijeet Surose		
30	Ganesh Viswanathan	Speech Controlled Robot using Embedded System	Conference. Waiting for Response
31	Rohit Iyer		
32	Vishnu Iyer		
33	Saurabh Mistry		
34	Robin Sen	Driver drowsiness detection system using CNN	published in International Journal of Research and Analytical reviews
35	Trushita Jadhav		
36	Nihal Shaikh		
37	Sushmita Singhasan		
38	Nethra Nair	Smart Book reader using embedded system	IEEE Explorer
39	Pranav Nair		
40	Mitalee Palwe		
41	Kaustubh Salgaonkar		
42	Ajish Nair	Fungus Detection	SMARTGEN IEEE

43	Nija K Manomohan	system	Conference
44	Sankul Pandey		
45	Hrishikesh Reddy		
46	Omkar Milind Munje	Smart security system using deep learning	Published in JASC
47	Shubham Sanjay Mhamunkar		
48	Arjun Sreedhar Vasista		
49	Shreya Sridharan		
50	Sudhan Somasundharam	IOT and Embedded system based Virtual telepresence Robot with VR vision	Published in JASC Journal
51	Shakti Valluvar		
52	Walsh Varughese		
53	Vignesh Nair		

Cultural Achievement:

- Anagha Upparna (TE EXTC) First place in AISYWLC GOT TALENT competition held at Kochi, Kerala on 19-12-2021.

Technical Activities:
- IEEE SIESGST organized Bridge the Gap- Instagaram Live with Alumni Interview Series Season2 Part 2 with Mr. Ameya Kale on 4/7/2021.

- IEEE SIESGST organized Bridge the Gap- Instagaram Live with Alumni Interview Series Season2 Part 3 with Ms. Riya Iyer on 11/7/2021.

- IEEE SIESGST organized Workshop on Industry automation Using PLC/SCADA conducted during 16/07/2021 to 21/07/2021.Session conducted by Mr.Arko Banergee ,Mr.Dinesh Joshi and Mr. Haiwalya Bembde from Chiripal Pvt Ltd GET,Fiat Motors.
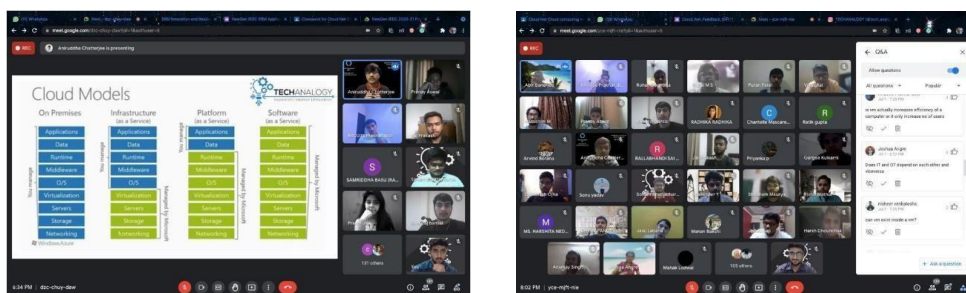
- IEEE SIESGST organized Writech 2.0: National Level Technical Article Writing Competition during 07/07/2021 to 23/07/2021.

- IEEE SIESGST organized Data Analytics Workshop on 08-01-2021 .Workshop conducted by Mr. Jigar Bhat, Data Analytics at ALLEGION India Pvt Ltd.

- IEEE SIESGST organized workshop on Cognitive Application using ML / AI during 09-08-2021 to 22-08-2021 . Workshop conducted by Mr. Aditya Jyoti Paul Founder Cognitive Research Application Lab(CARL).
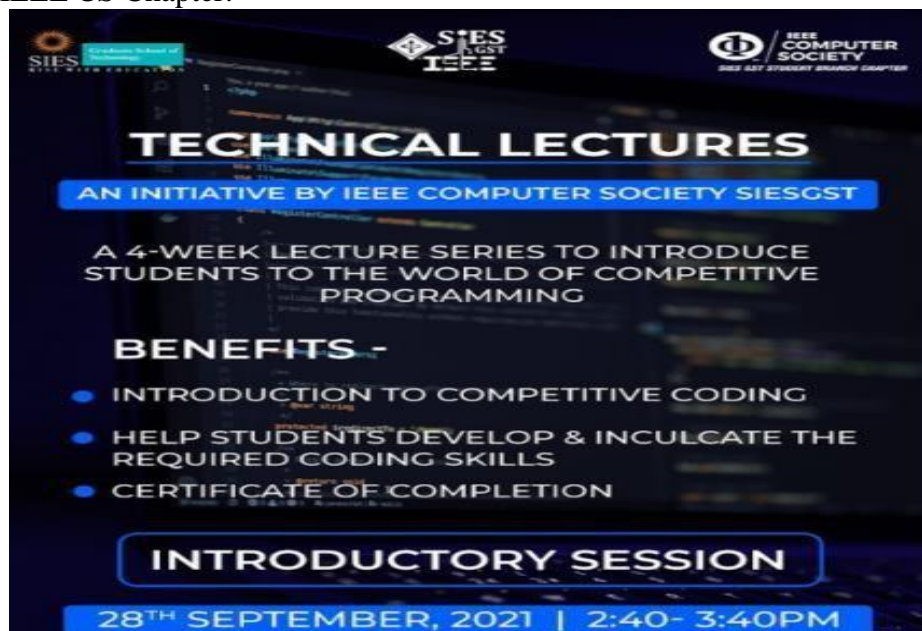

- IEEE SIESGST organized BrainHertz- Podcast Series Part1 Robots and Drones: The unmanned journey on 5/9/2021.
- IEEE SIESGST organized Enigma Tech Sundays Season 3 Episode1:Weekly Technical News on YouTube Channel on 19/9/2021.

- IEEE SIESGST organized ROBONETICS- 15 days workshop on Robotics during 24/9/2021 to 8/10/2021.Session conducted by Mr.Tuhinsubra Sen and Mr.Arko Banergee.

- IEEE SIESGST organized Enigma Tech Sundays Season 3 Episode2:Weekly Technical News on YouTube Channel on 26/9/2021.

- IEEE SIESGST organized IEEE Xplore Digital Library Training Session for students and faculty on 27/9/2021 by Dr. GK Upadhyaya, Senior Training Manager EBSCO Information Services.

- IEEE SIESGST organized Technical Lecture Series-1 on 28/09/2021 Kartik Iyer ,Chair, IEEE CS Chapter.

- IEEE SIESGST organized Guest Lecture for Regression Analysis on 30/9/2021.Session conducted by Ms. Osheen Mohan , Data Analyst, Amazon.
- IEEE SIESGST organized Webinar on LoRa WAN by MTTS Chapter on 3/10/2021.Session conducted by Mr. Tushar Borhade, Solution Architect to design IoT solution at Nextqore Inc.
- IEEE SIESGST organized BrainHertz- Podcast Series Part3 Cryptocurrency: From Euros to Ethereum on 3/10/2021.

- IEEE SIESGST organized Technical Lecture Series-2 Data Strucures and Algorithms on 6/10/2021. Lecture conducted by Mr. Saptarshi Mukherjee, Software Engineer, Google.

- IEEE SIESGST organized Guest Lecture for Statistical Analysis on 9/10/2021.Lecture conducted by Dr. Sajeev George, Professor,SP Jain Institute of Management and Research, Mumbai.

- IEEE SIESGST organized Enigma Tech Sundays Season 3 Episode3:Weekly Technical News on YouTube Channel on 10/10/2021.

- IEEE SIESGST organized Technical Lecture Series-3 Data Strucures and Algorithms, Lecture conducted by Mr. Saptarshi Mukherjee, Software Engineer, Google.

- IEEE SIESGST organized ROBOTON-Robotics Symposium during 15/10/2021 to 17/10/2021by Mr. Saptarshi Mukherjee, Software Engineer, Google.

- IEEE SIESGST organized BrainHertz- Podcast Series Part4 Cryptocurrency: An expert's PoV on 17 /10/2021.

- IEEE SIESGST organized IEEE Xtreme 15.0 Programming Competition during 23/10/2021 to 24/10/2021.

- IEEE SIESGST organized Enigma Tech Sundays Season 3 Episode 4 Weekly Technical News on YouTube Channel on 21/11/2021.

- IEEE SIESGST organized one week Technical festival Techopedia-X in January 2022.

- IEEE SIESGST Organized and conducted STEM lectures at Municipal School, Nerul on 23/3/2022 and 25/3/2022.

- IEEE SIESGST organized SELENIUM: MTTS WEBINAR-Power Beaming and Space Solar on 11/4/2022.

- IEEE SIESGST organized SELENIUM:CS WORKSHOP- Unboxing the Web on 11/4/2022.

Faculty Research Grants/Achievements

- Dr. Preeti Hemnani and Pranavi Nikam registered copyright for Litter detetction using Machine Learning on 28/3/2022.

- Ms. Sonal Hutke filed a patent on a MACHINE LEARNING BASED SYSTEM FOR ENHANCING COMPUTER NETWORK SECURITY at Australian Government in October 2021.

- Dr. Shubhangi Kharche registered copyright for CONCEPTUAL FRAMEWORK OF WEBCRAWLER on 27/6/2022.

- Dr. Shubhangi Kharche registered copyright for Analogy between 6G communication network and animal kingdom on 2/3/2022.

- Dr. Shubhangi Kharche registered copyright for CONCEPTUAL FRAMEWORK FOR 6G INTELLIGENT HEALTHCARE on 22/4/2022.

- Ms. Pratibha Joshi Presented paper at 4th International Conference on Intelligent Circuits and Systems (ICICS 2022) April 9, 2022 at Lovely Professional Univ.Punjab.

- Dr. Shubhangi Kharche published a paper titled Interoperability Issues and Challenges in 6G Networks in Journal of mobile multimedia on 4/4/2022.

- Ms. Swati Rane published a paper titled "Effective strategies for detection of abnormal activities in surveillance video streams" in Springer .

- Ms.Priyanka Kadam and Ms. Madhuri Kulkarni published a paper tited " Bandwidth Management for VoIP Calling Through Asterisk" in IEEE Explore.

- Ms. Pratibha Joshi presented paper titled ''Review on Pre-processing algorithms for Breast Density Classification using Digital Mammograms'' at "International Conference on Innovations in Computer Science, Electronics and Electrical Engineering (ICICEEE-2022) held at ADCET Ashta, Dist. Sangli,

Seminars /Workshops organized/attended by Faculty of GST

- Ms. Vandana Sawant , Ms. Sonal Hute and Ms. Hema Raut attended HFSS training during 1/6/2022 to 2/6/2022.

- Ms. Vandana Sawant attended STTP on Digital forensic for cybersecurity during 18/6/2022 to 24/6/2022 , organized by D. Y. Patil college of engineering.

- Mr. Biju B.attended FDP of IEEE Sponsored FDP on Education 4.0: Tools for effective NEP2020 implementation during 27/6/2022 to 2/7/2022.

- Dr. Shubhangi Kharche completed certificate course of AWS solutions architect associate on 20/6/2022.

- Mr.Pushkar Sathe and Mr. Vishal Gaikwad attended IEEE's teachers congress during 25/3/2022 to 27/3/2022.

- Ms. Nita Patil successfully completed course on Cybersecurity and the Internet of Things by Corsera in March 2022.

- Ms. Pratibhs Joshi , Ms. Vaishali M., Pranavi Nikam and Ms. Madhuri Kulkarni attended Online Workshop on Do's and Don'ts in Research and Technical Publication during weekends of Feb 2022.

- Ms. Pratibha Joshi and MS. Pranavi Nikam participated in IP Awareness/Training program under NIPAM on 18/2/2022.

- Dr. Shubhangi Kharche attended ATAL FDP on "Design Thinking" at NITTR Chandigarh from 31/12/2021 to 4/1/2022.

- Ms.Vaishali Mangrulkar and Ms. Sonal Hutke attended FDP on "IoT: A Journey from Sensor to Server" from 04/01/2022 to 08/01/2022 organized by A. P. Shah Institute of Technology.

- All faculties attended ISTE Approved One Week STTP on " Data Science and Visualization Tools " during 6/12/2021 to 11/12/2021.

- Ms.Madhuri Kulkarni attended ATAL FDP on AI-Natural Language Processing from 29/11/2021 to 3/12/2021.

- Ms.Pranavi Nikam Attended ATAL FDP on 6G Communication from 2o/12/2021 to 24/12/2021.

- Ms.Pranavi Nikam completed 5 days workshop on " RTL design using Verilog HDL using SKy 130 Technology " From VSD Banglore.

- Ms.Shyamala Mathi successfully completed NPTEL course on Pattern Recognition and Applications in November 2021.

- Ms.Vaishali Mangrulkar successfully completed NPTEL course on Problem Solving Through Programming in C in November 2021.

- Ms. Sonal Hutke successfully completed NPTEL course on Programming in Java in November 2021.

- Ms.Swati Rane ,Ms.Nita Patil and Ms.Priyanka Kadam attended FDP on Fundamentals of Deep Learning on 27/11/2021.

- Ms.Priyanka Kadam Completed CISCO Certification course on "Introduction to Cybersecurity"in November 2021.

- All faculty attended Faculty Development Program on "IOT :Our Connected World" on 30/11/2021,The session was conducted by an expert Mr.Hannan Satopay .Founder: ALHANSAT TECHNOLOGIES, IEEE Bombay TPAC Secretary.

- Ms.Madhuri Kulkarni completed FDP on Machine Learning Applications in NLP and Computer Vision during 4/10/2021 to 8/10/ 2021.

- Ms.Shyamala Mathi attended FDP on Artificial Intelligence in Healthcare_27/9/2021 to 1/10/2021 and FDP on Artificial Intelligence applications in medical diagnosis during 4/10/2021 to 8/10/2021.

- All faculty attended Webinar on "Insights into Industry 4.0" on 23/10/2021.The session was conducted by an expert Mr. G Venkata Ganesan, Senior Manager, Siemens Ltd.

- Ms. Madhuri Kulkarni attended guest lecture on Insights for industry 4.0 in October 2021.

- Ms.Vandana Sawant attended webinar "Cyber Crime" on 25/9/2021.Seminar conducted by Adv. Nandini G. Menon.

- Dr.Preeti Hemnani and Ms.Sonal Hutke Completed One month training on " VLSI SoC Design using Verilog HDL Course" by Maven Silicon 28/8/2021.

- Ms. Vandana Sawant FDP on "Android app development using Kotlin"during 5/7/2021 to 10/7/2021.

- Dr.Preeti Hemnani Attended "Blended Teaching Learning" by Dr.Deepak Pathak ,IIT B on 17/7/2021.

- Dr.Shubhangi Kharche attended MHRD-IA Online Training Sessions Basic Level during 30/6/2021 to 30/7/2021.

- Seventeen faculties attended Session on "Procedural Aspects of IPR" by SIES GST .Session was conducted by Mrs. Rashmi Hingmire, Patent Agent, GREAT MISSION GROUP CONSULTANCY, INDIA.

- Ms.Priyanka Kadam attended FDP "FOUNDATIONS OF CYBER SECURITY & DIGITAL FORENSICS" on ATAL Portal during 26/7/2021 to 29/7/2021.

- Ms.Vandana Sawant organized Seminar/Alumni interaction Telecommunication &RF engineering on 18/10/2021.Session was conducted by our Alumni Mr. Pranesh Mokashi.

- Ms.Pranavi Nikam organized Expert talk on "Digital electronics : Beyond the books !" for second year students on 30/11/2021

- .Ms. Pratibha Joshi organized Faculty Development Program on "IOT :Our Connected World" on 30/11/2021,The session was conducted by an expert Mr.Hannan Satopay .Founder: ALHANSAT TECHNOLOGIES, IEEE Bombay TPAC Secretary.

- Ms. Swati Rane and Ms.Pranavi Nikam organized Seminar/Alumni interaction Roadmap to VLSI domain on 30/7/2021 .Session conducted by our Alumni Mr.Anurag Iyenger.

Co-Curricular Activities

- Dr. Preeti Hemnani organized Webinar on "Follow your path-Career advice" with our Alumni Dr.Anchan Mohan on 28/2/2022.
- Dr. Shubhangi Kharche organized Webinar_"5G-IOT-Cloud Technologies with our Alumni Dada suryawanshi on 11/2/2022.
- Ms.Madhuri Kulkarni and Ms.Priyanka Kadam organized student development program on Natural Language Processing during 20/12/2021 to 24/12/2021.
- Mr. Biju B organized workshop on Data Analytics by Jigar Bhat, Data Analysis engineer Data Analytics at ALLEGION India Pvt Ltd on 1/8/2021.
- Ms.Nita Patil and Ms.Madhuri Kulkarni organized guest lecture on Insights into industry 4.0 on 23/10/2021.Session was conducted by Mr. G Venkata Ganesan, Senior Manager, Siemens Ltd.
- Dr. Shubhangi Kharche organized guest lecture on Data communication protocols in embedded systems and Job opportunities in embedded systems on 8/10/2021 and 18/10/2021.
- Ms. Vaishali Mangrulkar Conducted "Workshop on IoT" Organized by CE Department , SIESGST under CSI on 8/7/2021.

Alumni Activities:

- Webinar on "Follow your path-Career advice" with our Alumni Dr.Anchan Mohan on 28/2/2022.
- Webinar on"5G-IOT-Cloud Technologies "with our Alumni Dada Suryawanshi on 11/2/2022.
- Bridge the Gap- Instagaram Live with Alumni Interview Series Season2 Part 2 with our Alumni Mr. Ameya Kale conducted on 4/7/2021.
- Bridge the Gap- Instagaram Live with Alumni Interview Series Season2 Part 3 with Ms. Riya Iyer conducted on 11/7/2021.
- Organized Seminar on Roadmap to VLSI domain on 30/7/2021 .Session conducted by our Alumni Mr.Anurag Iyenger.
- Organized Seminar on Telecommunication &RF engineering on 18/10/2021.Session was conducted by our Alumni Mr. Pranesh Mokashi.
- Organized Seminar on After graduation? Live with alumni Season3 Episode 1 on 1/6/2022.
- Organized Seminar on After graduation? Live with alumni Season3 Episode 2 on 26/6/2022.