**SIES GRADUATE SCHOOL OF TECHNOLOGY**

Sri Chandrasekarendra Saraswati Vidyapuram, Plot 1C-E, Sector V, Nerul, Navi Mumbai – 400 706.

# DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
## Annual Report 2018-19

1.    **Academic achievements:**
- Dr. Preeti Hemnani has completed her Ph. D.
- Prof. Kintu Patel has enrolled for Ph. D.
- Prof. Vishal Gaikwad has enrolled for Ph.D.

2.  **Collaborative/MOUs':**
- NMMC- 50000 RESEARCH GRANT FOR STUDENTS
- Department has taken initiative to sign MoU between SIESGST and Eduvance Vanmat Technology Pvt. Ltd. on 16/3/2019.

3.  **Department Initiatives:**
- Inauguration of a MTT-S (Microwave Theory & Technique Society) chapter under IEEE SIES GST.
- Initiatives towards new COE.
- Soft submission of software related practicals.

4.  **Academic / technical achievements of students:**
- Atharva Karnik of SE A EXTC successfully completed TWO NPTEL courses on Computer Architecture & Engineering thermodynamics.
- Diksha Adke of SE A EXTC successfully completed  TWO NPTEL  courses on Computer Architecture and engineering thermodynamics
- Vishal Raj of BE A EXTC successfully completed NPTEL course on hardware modelling using verilog.
- Nivedita Lokhande of TE A EXTC successfully completed NPTEL course on soft skills.
- Jiten Kunder of BE A EXTC won GST FERIA 2.0
- Aditya Shanbhag and Yuvaraj Mudaliyar of BE-B EXTC conducted workshop for SIES GST students.
- **Industry Internship**

| Company Name | No. of Students |
| --- | --- |
| Eduvance | 34 |
| MCGV Technologies, Vashi, Navi Mumbai | 04 |
| Dynalog India Limited,Vikhroli, Mumbai | 04 |
| L & T pvt.Ltd.,Mahape | 04 |
| Central Railway | 04 |
| ONGC | 05 |

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## 5. Cultural / sports achievements:

- Harsh Agarwal oF SE A EXTC was among top4 in TML tug of war.
- Pratik Hegde of BE B won prize in Marshall Arts.
- Pooja Iyer of SE A EXTC won 2nd place in duet singing competition in TML-2018.
- Diksh Adke of SE A EXTC has successfully completed her Praveshika Purna of Classical music Madhyama Pratham.
- Vibha Rawan won Ist prize in intercollegiate folk dance competition in Pillai's COET Panvel.
- Sanchita Hole wins prize in solo singing competition.

## 5. Faculty achievements/Research grants:

### Minor research grants:

Following faculties got minor research grants from Mumbai university.

| Sr. No. | Principal Investigator | Topic | Grant(Rs.) |
|---|---|---|---|
| 1 | Shishir Jagtap | Compact Remote Controlled based multipurpose frequency reconfigurable antenna for long distance communication. | 25000 |
| 2 | Kintu Patel | UAV based Structural flaw detection using ANN. | 25000 |
| 3 | Shishir Jagtap | Asset Monitoring and Tracking using RFID System. | 35000 |
| 4 | Pratiba Joshi | IOT based Wireless Sensor Network(WSN) for metropolitian cities to monitor air pollution level. | 2000 |
| 5 | Vishal Gaikwad | An Intelligent Green Energy Based IoT Sensor Node for Data Monitoring using WEMOS D1 MINI | 20000 |

- Dr. Atul Kemkar and Dr. Preethi Hemnani reviewed papers of the 3rd Biennial International Conference on Nascent Technologies in Engineering organized by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai,(India) in its premises in association with IEEE on January 4-5, 2019.
- Dr. Atul Kemkar published paper titled "IoT based garbage monitoring System" in 4th International Conference on Recent Challenges in Engineering and Technologies organized by IFERP Pune in April 2018.
- Dr. Atul Kemkar has cordinated and attended Faculty Development Program on a blooming field of GeoInformatics titled "GeoInformatics and related open source software" by SIES Graduate school of Technology, Nerul Navi Mumbai and Graduate School of Engineering, OSAKA City University, Japan from 10-12 Jan'2018
- Dr. Preeti Hemnani published paper titled "The Building of NQR/NMR spectrometer" in International journal of Electrical and Computer Engineering June 2018.

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- Prof. Biju Balakrishnan Invited speaker at K J Somaiya Institute of Engg. and Tech., Sion on 7-2-2018 on the topic: Overview of digital Communication and bridging the research gap.
- Prof. Biju Balakrishnan Invited speaker at K J Somaiya Institute of Engg. and Tech., Sion on 2-4-2018 on the topic: Analog and digital Communication beyond the syllabus.
- Prof. Vandana S. published paper titled "Human Skin as Touch Screen" in International Journal of emerging technology and innovative research in May 2018.
- Prof. Swati Rane published paper titled "A survey of Nonlocal means image denoising technique and its variants" in ICIETS-International conference on Innovations in Engineering, Technology science 20-21 Sept, 2018 by IEEE.
- Prof. Sonal Hutke and Prof. Hema Raut published paper titled "Design of RF Energy Harvesting System for Low-Power Electronic Devices" on 2018-10-22 in UGC approved IOSR Journal of Engineering.
- Priyanka Kadam, Prashnat L. Ahire published paper titled "Improving quality of service of WSN network by dada Aggregation" in International conference Equinox 2018 on 26/09/2018.
- Prof. Pranavi M conducted Guest Lecture on EDC-I at Vasandada Patil College of Engineering, Sion on 19/10/2018.
- Prof. Abhishek Kadam organized webinar on RTL Design & Functional Verification by Sivakumar P R CEO, Maven Silicon at SIES GST on 21st Aug 2018.

## 7. Seminars/workshops organised by departments:

- Extc department has organized One week AICTE-ISTE approved STTP on "Neural Network and Deep Learning use Tensor Flow" from 1st Jan 2019 to 5th Jan 2019.



- Extc department has organized a Faculty Development Program on a blooming field of Geo-Informatics titled "Geo-Informatics and related open source software" by SIES Graduate school of Technology, Nerul Navi Mumbai and Graduate School of Engineering, OSAKA City University, Japan from 10-12 Jan'2018.
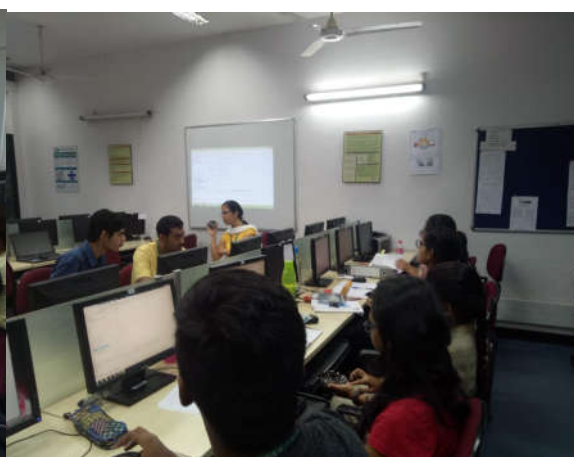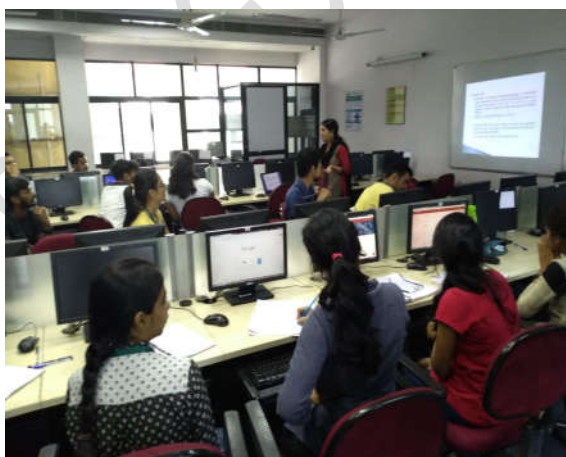
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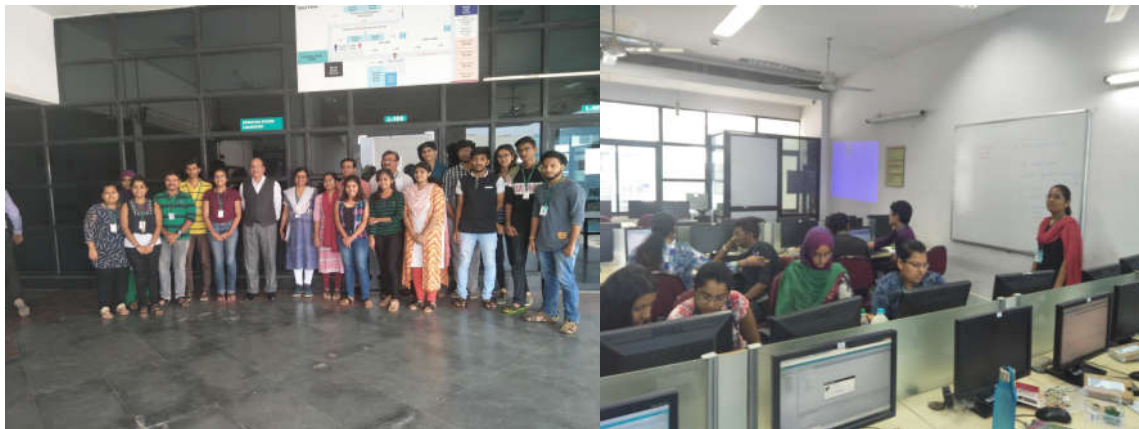- Seminar by Alumni Mr. Ameya Kale on "Life after Engineering" dated 2nd April 2019.



- Faculty Members of Department of EXTC, under COE IOT conducted workshop on IOT from 18/6/2018 to 22/6/2018.



- Dr. Preeti H, Pranavi M, Sonal J, Abhishek K conducted SDP on FPGA design using VHDL from July -September(3days) at SIES GST with participation of 14 students.

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- Prof. Shubhangi K. organized SITIP 2018(SUMMER INDUSTRIAL TRAINING 2018) by Dr Jonathan Joshi, CEO, Eduvance Technologies Ltd. from June 19, 2018 to July 19, 2018 for SE and TE EXTC 34 students.



- Prof. Pushkar Sathe, Hema Raut conducted SDP on Embedded systems- ARM Mbed workshop from 19-21 Dec. 2018 (3days) at SIES GST with participation of 12 students.
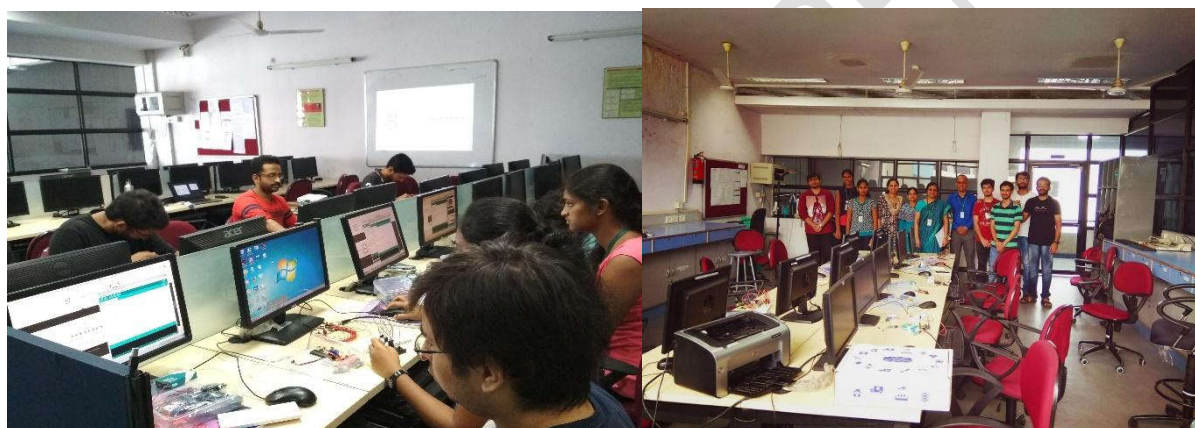


- Prof. Shishir Jagtap, Prof. Vandana Sawant conducted SDP on Advanced antenna design using IE3D on 1st July 2018 at SIES GST with participation of 18 students.

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- Prof. Shishir Jagtap, Prof. Vandana Sawant conducted SDP on Antenna design using IE3D from 18/6/2018 to 22/6/2018 at SIES GST with participation of 8 students.



- Prof. Vishal Gaikwad conducted SDP on Arduino and Introduction to IoT from 20/06/2018 to 23/06/2018 at SIES GST with participation of 9 students.



- Prof. Biju Balakrishnan conducted SDP on Orientation on Course file, Handbook, Personal file and Menter-Mentee scheme on 04-07-2018 at SIES GST with participation of 5 faculties.

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- Prof. Biju Balakrishnan, Prof. Madhuri Kulkarni conducted SDP on Analog and Digital Communication mini project competition on 29 sept. 2018 at SIES GST with participation of 40 teams (147 students).



- Prof. Biju Balakrishnan, Prof. Madhuri Kulkarni conducted SDP on Radiation, sourses, hazards and solutions mini project competition on 06 Oct. 2018 at SIES GST with participation of 40 teams (147 students).



## IEEE Events

- Department has organized more than 30 various events under IEEE Student branch for SE, TE and BE students in 2018-19 academic year. Some of the many events which served as a very knowledgeable and interesting experience for all the students are;
- FPGA workshop, Machine learning workshop, Drone workshop, Arduino workshop, IoT workshop and MTT-S Student Chapter Inauguration and some seminars.
- FPGA workshop was conducted by scientists from Tata Institute of Fundamental Research, the aim of workshop was to provide a platform for students to learn, design and implement digital system on FPGA using VHDL.

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- A workshop on IoT was conducted by Dr. Sourabh Mehta (IEEE Bombay Section).
- Machine Learning workshop conducted by a Prof. Santosh Chapneri, St. Francis Institute of Technology. This workshop provided practical foundation level training that enables immediate and effective participation in big data and data science and it covered the basic algorithms that helps us to build and apply prediction functions with an emphasis on practical applications.



- Drone workshop, Arduino workshop were conducted by our Technical team of IEEE-SIESGST.
- A very informative guest lecture was conducted by Prof. Aiyappan Pillai, an Excom member, IEEE Bombay Section.
- "Technical Talk & Interaction: Design and Development of Analog Instruments" was conducted by the Director of Electronic Enterprises Mr. Arun P. Wagle.
- On 10th October 2018 IEEE Day was celebrated in SIES GST by heads, volunteers and members of IEEE. The Chief Guest of the event, Taskeen Nadkar gave a visionary speech.



- Industrial Visit at GMRT, Narayangaon.

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- Industrial visit was arranged for third year students at MTNL, Pawai on 6/2/2019.



- Industrial visit was arranged for third year students at SAMEER IIT, Bombay on occasion of Science Day 28/2/2019.

## 8. Seminars/workshops attended by department faculty:

- Dr. Preethi Hemnani attended seminar on Elsevier Research Solutions by Elsevier Connect At Elsevier on 20-12-2018.
- Dr. Preethi Hemnani, Prof. Abhishek Kadam, Prof. Pranavi Mhatre attended workshop on Introduction to Mentor Graphics HEP by Kamalesh Pansare at Trident Tech Labs on 23-24 Aug 2018.
- Prof. Vishal Gaikwad attended workshop on IoT Application Design by Mr. Rather Sajad at AP Shah Institute of Technology on 26/12/2018 to 28/12/2018
- Prof. Shubhangi kharche, Prof. Swati Rane, Prof. Anuradha Pawar, Prof. Vaishali Mangrulkar, Prof. Pratibha Joshi attended seminar on design thinking and data science by Mr. Shreevastav at ISDI Lower Parel Mumbai on 25/09/2018.
- Prof. Abhishek Kadam attended workshop on advanced topics in embedded system and Robotics at IITB Eyantra Team on 27/08/2018 to 31/08/2018.
- Prof. Swati Rane attended seminar on Digital Image Processing by Dr. Suyash Awate /Dr. Ajit Rajwade at IITB from July-Nov 2018.
- Prof. Prashant L. Ahire attended Faculty Development Program on Computer Vision and Machine Learning by Prof. Aparajita Ojha, IIITDM, Jabalpur Prof. K. M. Bhurchandi, VNIT, Nagpur at Shri Sant Gajanan Maharaj College of Engineering from 03/12/2018 to 07/12/ 2018.
- Prof. Anuradha Pawar attended Developer Weekend on AR/VR/MR, ML,design thinking and Blockchain by Mr Javed Khatri, Mr Nilay Chandra, Mr Abhilash Ashok at SIES GST Nerul on 07/09/2018 to 08/09/2018.
- Prof. Priyanka Kadam attended workshop on Ethical hacking by Kyrionix from 29/09/2018 to 30/09/2018.
- Prof. Priyanka Kadam, Prof. Anuradha Pawar, Prof. Vaishali Mangrulkar, Prof. Madhuri Kulkarni, Prof. Nita Patil attended STTP on Computer Network and Security by Prof. Lakshmisudha, at SIES GST on 15/11/2018 to 22/11/2018.
- Prof. Sonal Hutke attended workshop on Practice on HFSS Antenna design tool at K. J. Somaiya College Sion, Mumbai from 09-10 March 2018.

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- Prof. Biju Balakrishnan attended seminar on Onscreen marking (OSM) and conduction of University Exams by Dr. Arjun. P. Ghatule at CK Thakur College, New Panvel Mumbai on 1/10/2018.
- Prof. Pranavi Mhatre attended webinar on RTL Design & Functional Verification by Sivakumar P R CEO, Maven Silicon on 21st Aug 2018.
- More than 15 faculties completed different NPTEL courses.

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