



Celebrating 50 Years of Excellence

JULY 2019 Newsletter

Symbiosis Institute of Technology, Pune

Electronics and Telecommunication Engineering Department

Department Vision:

To emerge as a leading source for Electronics and Telecommunication engineering, fostering globally proficient engineers to meet the demands of evolving industry and society.

Department Mission:

- **M1:** Foster collaboration with industry to facilitate the acquisition of cutting-edge technologies and contribute to the generation of up-to-date knowledge, enhancing employability and sustainability.
- **M2:** Encourage innovation, research, and development, creating an environment conducive to higher education, entrepreneurship, and lifelong learning.
- **M3:** Cultivate leadership qualities infused with social and ethical values, providing a platform for their development.

Program Educational Objectives (PEOs):

- **PEO1:** Graduates will possess a strong foundation in science and engineering fundamentals, along with analytical skills to effectively solve real-world problems.
- **PEO2:** Graduates will gain technical proficiency in Electronics and Telecommunication fields and scale new heights in profession through lifelong learning.
- **PEO3:** Graduates will embrace professionalism, ethical conduct at all levels and constantly evolve in a multidisciplinary approach leading towards sustainability.
- **PEO4:** Graduates will leverage their engineering knowledge, effective communication skills, leadership qualities, and teamwork spirit to serve society and contribute positively to their community.

Guest lectures organized:

- The guest speaker **Mr. M. S. Damodara**, (Business Head) from Entuple Technologies Pvt. Ltd. Bangalore has delivered a comprehensive lecture on VLSI Industry- Trends and opportunities on 22nd October 2019 for the benefit of B. Tech students.

Value added course:

- A value added course on “**Digital Design Using Verilog**” has been introduced for the benefit of B. tech students. The objective of this course is to make students well versed with the current technology in VLSI domain and to provide training in Verilog programming. The course consists of 48 hours of theory and practical sessions. The coordinators for the event were Mr. Shivappa and Mr. Harish from Entuple Technologies.

Student achievements:

- **Aditya Chauhan** of E&TC department has participated in West Zone Inter University Men's Volleyball Championship organized on 18th December 2019 by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur and reached quarter final stage.
- **Smit Shah** of E&TC department has participated in DST & Texas Instruments India Innovation Challenge Design Contest organized on 30th August 2019 by Texas Instruments.
- **Anshika Mathur** of E&TC department has participated in World Robotic Championship organized on 23rd September 2019 by Times Technoxian supported by AICRA, Digital India.

Department publications:

- Paresh S. Nasikkar and Chandrakant D. Bhos, Cuckoo Search based approach towards Maximum Power Point Tracking for Solar Photovoltaic System under Partial Shading, Journal of Computational and Theoretical Nanoscience, Volume 16, Number 8, 3338-3345.
- Javed Sayyad and Paresh Nasikkar, An overview of methods used for outdoor performance characterization of photovoltaic module string up to 10 kWp, International Journal of Instrumentation Technology, Inderscience Publisher, Vol. 2, No. 2, 114 – 134.
- Mr.Abhaya Pal Singh , Dipankar Deb, Dipankar Deb, Himanshu Agrawal, Himanshu Agrawal, On selection of improved fractional model and control of different systems with experimental validation, Communications in Nonlinear Science and Numerical Simulation, Vol 79, Article number 104902, 1-14
- Ms.Shilpa Manoj Hudnurkar, Ms.Ankita Sunil Wanchoo, Denoising and analysis of ECG signal using Wavelet Transform for Detection of Arrhythmia, International Journal of Recent Technology and Engineering, Vol 8, Issue 4, 2113-2117
- Ms.Priyanka Rohan Tupe Waghmare, Ms.Sushma Nareshsing Parihar, Variation in Radio Frequency Power and Field Intensity Value on Fixed Distance from Different Mobile Base Stations in and Around Symbiosis International (Deemed University), Lavale, Pune, International Journal of Engineering and Advanced Technology, Vol 9, Issue 1, 6930 – 6933
- Ms.Apoorva Sanket Shastri, Mr.Aniket Ravindra Nargundkar, Hexagonal and ring packing method for solving circle packing problem using modified heuristics, International Journal of Engineering and Advanced Technology, International Journal of Engineering and Advanced Technology, Vol 8, Issue 6, 2714 – 2719
- Mr.Sanjeev Kumar, Ms.Priyanka Rohan Tupe Waghmare, Frequency Reconfigurable Patch Antenna for L band Applications, International Journal of Engineering and Advanced Technology, Vol 9, Issue 1, 4775 – 4784
- Mr.AbhayaPalSingh *, Himanshu Agarwal, Himanshu Agarwal, Pallavi Srivastava, Pallavi Srivastava, Praveen Naidu, A Robust Fractional Model Predictive Control Design, Progress in Fractional Differentiation and Applications, Vol. 5, Issue 3, 217 - 223
- Anupam Pandit, Mr.Ravi Raman Sekhar, Dr.Priteshkumar Biharilal Shah, Simulation Based Process Optimization for Additive Manufacturing, International Journal of Innovative Technology and Exploring Engineering, Vol 8, Issue 10, 3405 – 3410
- Dr.Priteshkumar Biharilal Shah, Mr.Ravi Raman Sekhar, Sudhir Agashe, Application of fractional pid controller to single and multi-variable non-minimum phase systems, International Journal of Recent Technology and Engineering, Vol. 8, Issue 2, 2801 - 2811

Placement details:

Students of 2016-20 batch have been placed in renowned companies, such as KPIT, Vodaphone, Google, Acquia, eclerx, Capita India, PetrolIT, Shoptimize, Innogenium, Media.net, IBM, etc.

Alumini Message

“I had a great experience in SIT, Pune. The atmosphere in and around Pune make one fall in love with it. The faculties are very helpful and experienced, and makes one feel very homely. The one message I would like to give to the new batches is that make your lie at SIT eventful, don't be lazy, shy to ask for help around yourself. Make your time at SIT memorable one“

“Mohit Pareek”

“My time at SIT has been very fruitful. I would urge all the batches to make fully utilize the facilities and opportunities available in the campus. The influence of the faculty make you ready for the challenging and cutting edge technology in the industry. The programme structure is very helpful in this regard with all the available modernized labs there in place.”

“Pranshul Singh”

Few Titbits by our students

- The Most of today's internet users are aware of what Wikipedia is. It is common knowledge that the online encyclopedia is created and edited by volunteers. But do you know that thousands of bots (automated programs) currently maintain the Wikipedia pages? Today, there are 2468 bot tasks approved to carry out maintenance jobs on more than 52 million English Wikipedia pages.
- The world's first computer mouse was invented at Stanford Research Institute (SRI) in the 1960s. The equipment was called “X-Y position indicator for displays”. Douglas Engelbart and Bill English are credited with the invention of the mouse