SARASWATI Education Society's

# SARASWATI College of Engineering

Learn Live Achieve and Contribute

Kharghar, Navi Mumbai - 410 210.

## DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

*Newsletter: Jul '18– Dec '18* *Vol.21*

## Our Inspiration

Hon. Shri Prithvirajji Deshmukh

Chairman, SES

Smt. Vrushali Deshmukh

Founder Secretary, SES

Dr. Manjusha Deshmukh

Principal, SCOE

## About College

**VISION:** "To Become Center of Excellence in Engineering Education and Research."

**MISSION:** "To Educate Students to become quality technocrats for Taking up challenges in all Facts of Life."

## About Department

**VISION:** "To make students capable to contribute in development of society through research."

**MISSION:** "To impart quality education to train students in emerging technologies in Electronics and Telecommunication Engineering"

**Prof. Sheetal Bukkawar**

**H.O.D.**

## *From the HOD's Desk:*

The Department of Electronics & Telecommunication Engineering has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated and learned faculty. The Department has been consistently working towards the goal to produce highly skilled and scientifically oriented manpower through flexible, adaptive and progressive training programs along with cohesive interaction with the research organizations, academicians and industries. In a nutshell, the department is well nurtured to cater the needs of education for the career enhancement of students from both technical as well as social aspects.

## *Program Educational Objectives (PEO)-*

Graduates will,

- Apply the knowledge of mathematics and science to identify, formulate and define engineering problems in the field of Electronics and Telecommunication Engineering.
- Contribute to the needs of the society in solving technical problems using electronics & communication engineering principles, tools, and practices.
- Demonstrate professionalism, ethical attitude, communication skills and teamwork to adapt current trends by engaging in lifelong learning.
- Impart analytic and logical skills to initiate and develop innovative ideas for R &D, industry and multidisciplinary domain.
- Excel in higher education and succeed in technical profession exhibiting global competitiveness.
- Design systems, components or processes that meet specified needs with appropriate considerations for public health & safety, cultural, societal and environmental considerations.

*Program Outcomes (PO)-*

At the end of the Program, a student will be able to:

- Engage in life-long learning and an understanding of the need to keep up with current developments in the specific field of practice
- Apply knowledge of mathematics, science and engineering as appropriate to the field of electronics & telecommunication engineering practice.
- Understand of the effects of the engineering solutions in a global, economic, environmental and societal context.
- Design systems for applications based on the acquired knowledge to solve real time requirements.
- Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex problems.
- Demonstrates the knowledge of theoretical & practical aspects of signal processing to meet desired needs within realistic constraints such as economic, environmental, social, ethical, health and safety.
- Design, simulate and fabricate electronic and communication systems, components, devices as well as to design and simulate the analog and digital processes of physical world
- Acquire the communication skills necessary to interact effectively in multidisciplinary teams.
- Participate and succeed in competitive examinations or seek employment in the industry.
- Demonstrate leadership, managerial and entrepreneurship skills
- Understand impact of engineering solutions on the society with awareness of project management and finance related issues.

## "Expert lecture on Arduino and Raspberrypi programming

(24thJuly ,2018)

Expert lecture on Arduino and raspberrypi programming was conducted by R/D Head Mr. Santosh Kamble on 24th July, 2018. In this seminar he discussed various fundamentals of Arduino and raspberrypi.

He also discussed various types of embedded system and scope in Industry. In this seminar theory session and practical session on Arduino and Raspberrypi conducted .After seminar students also ask their doubts with expert faculty and they want to learn more about Arduino and raspberrypi programming.

## Workshop on Arduino Programming

(31st July -3rd August ,2018)

This Workshop were 3 days and Conducted by Mr Santosh Kambale R/D Head of Saitronics, after this session students can do projects on Arduino system and implement their own ideas regarding different Projects. Students was happy to learn new software and interested to learn new IOT concept. Along with this workshop Department has done MOU with SaiTronics so in future students can solve their Technical Difficulty and can updated with today's Technology . The workshop is coordinated by Prof. Nilesh Patil.

## “PCB Designing Workshop”

(01st October ,2018)

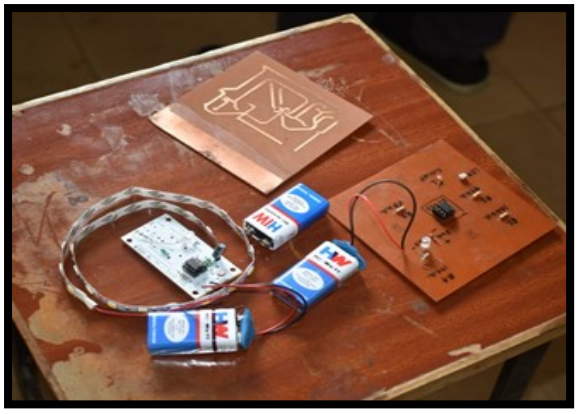
IETE Students Forum in association with Electronics and telecommunication student association (ETSA) had organized one day Workshop on “PCB designing” on 1st October, 2018.

The workshop was aimed to provide knowledge about circuit layout designing using software “Proteus Professional 8”and PCB designing.

As per schedule of EXTC Department, event started at 09.30 am with the arrival of Respected HOD Prof. Sheetal Bukkawar, and faculty co-ordinator Prof. Pallavi Kharat and the participants of second year students from EXTC Engineering department.

The function began with the lightening of lamp by performing saraswati pooja. As soon as it ended, HOD , Sheetal Bukkawar graced the function with her inspiring words. All the staff members attended the function and hence it ended with the vote of thanks for the dignitaries after which the First event 'PCB workshop' began under the guidance of Prof. Pallavi Kharat.

The workshop started with the component description. In this session the brief explanation of the electronic components used for designing the circuit “LDR controlled LED” was given to the students. After that software session started for designing the softcopy of the PCB layout of the above mentioned circuit. The students got brief introduction about the software “Proteus Professional 8” which is used for designing the circuit layout.



The hardware session gave the student's hands on experience of making the Printed Circuit Board by using "Phenix Etching machinery". The PCB layout was printed on the copper plate and then it was used for mounting and soldering the components of the "LDR controlled LED" circuit .

The session ended with the vote of thanks and distribution of 'Certificate of Participation' to each of the participant.

## "ETSA INDUCTION"

(29th October ,2018)

The ETSA–Electronics and Telecommunication Students Association is the departmental Committee of E&TC Department. As every year this year too ETSA progressively wishes to work for the students of their department in all possible aspects including Academics and the other Co-curricular activities.


The Induction started with the Traditional ritual Saraswati Pooja. The Alums of our Akash Ambodkar, Suchitra Naregal, Siddesh Dahivalkar and Gaurav Kothare were also invited for the event. The event further witnessed a speech by the Principal in-charge Prof. Vaishali Jadhav . The HOD of EXTC Department Prof. Sheetal

Bukkawar also spoke few words about the Committee.

The alums were felicitated by the Principal in charge and HOD E & TC. A short introduction about the Committee was given to the students which included information about the events performed by the committee the previous year. The new logo of the Committee was also inaugurated by Prof. Vaishali Jadhav, Prof. Sheetal Bukkawar. The alums also guided the upcoming ETSA Committee with few valuable words and experiences.

All the elected members were felicitated with their letters of appointment and the batches which included the name and their posts. The event end by a short vote of thanks given by one of the committee member.

## Industrial Visit

(24th August,2018)

**Industry**: - Lantec Technologies ,Silvassa

**Number of Students**:- 53

**Staff coordinators**: -

Prof. Sheetal Bukkawar,
Prof. Sarita Kale,
Prof. Naresh Kr. Joshi


Lantec Technologies a company manufacturers & Exporters of Medium & Low Voltage Switch Boards For Medium Voltage - HT Panels up to 33KV, For Low Voltage - LT Panels like PCC, MCC & APFC Panels, AMF & Synchronizing Panels, PDBs, MLDBs, LDBs, & RTDBs, Instrument cum MIMIC Panels, Control Relay Panels etc.


The whole Manufacturing process such as Fabrication(GI SHEET only), Metal pre-treatment(Henkels – Nano-Ceramic Process), Conveyorised Powder Coating Plant, Busbar, Assembling, Wiring, and Testing are explained by expert Engineers to our students.

## Industrial Visit

(25th August,2018)

**Industry**: - RR Cables, Silvassa

**Number of Students**:- 53

**Staff coordinators**: -

Prof. Sheetal Bukkawar,
Prof. Sarita Kale,
Prof. Naresh Kr. Joshi


Wires and cables permeate through every aspect of our modern lifestyle, which commands uninterrupted and efficient electricity supply. From planes to trains, telecommunication to entertainment, satellites to Wifi – wires are the omnipresent, unsung heroes pulsating with electricity, bringing surroundings to life and bridging distances. RR Kabel are also the pioneers of wire design, technology and applicability.

The whole Manufacturing process of the wires and cables, and testing are explained by expert Engineers to our students.

Students understand the in manufacturing of of the wires and cables.

## Students Achievements

- **Result At Glance**

  **List of Toppers for Academic Year- (Nov-Dec 2018)**

## S.E. SEM-IV

| *TOPPER LIST FOR DIVISION SE-overall 18-19 ODD* | | |
|---|---|---|
| ***NAME OF STUDENT*** | ***SGPI*** | ***RANK*** |
| **DUBEY SAGAR** | **9.69** | 1 |
| **MANKAR SHREYA** | **9.23** | 2 |
| **KODGULE SIDDHI** | **8.62** | 3 |

## T.E. SEM-VI

| *TOPPER LIST FOR DIVISION TE-overall 17-18 EVEN* | | |
|---|---|---|
| ***NAME OF STUDENT*** | ***SGPI*** | ***RANK*** |
| WAMAN SAMPADA | **8.37** | 1 |
| GOWDA RAMKRISHNA,<br>GUPTA SANDHYA,<br>SAHA MANISH KUMAR | **8.22** | 2 |
| METHA SHEJAL | **7.93** | 3 |

## B.E. SEM- VIII

| *TOPPER LIST FOR DIVISION BE-overall 17-18 EVEN* | | |
|---|---|---|
| ***NAME OF STUDENT*** | ***SGPI*** | ***RANK*** |
| POORTI KULKARNI | **8.81** | 1 |
| CHILE NAVJYOT | **8.22** | 2 |
| BHERE SHWETA | **7.93** | 3 |

Heartiest congratulations to our Toppers as well as placed students. “God bless you and we hope that you make us proud in the future as well”.

## Placement Details

**We proud and glad to notify that our final year students have been placed in following companies.**

1. **Nucsoft,**
2. **Paramatrix,**
3. **Neosoft,**
4. **Cognizant technologies,**
5. **Swabhav tech,**
6. **L&T infotech,**
7. **TCS, Snakey Solutions,**
8. **Reliance Jio ,**
9. **Jaro education pvt ltd.,**
10. **Extra marks pvt.ltd.**

## Faculty Achievements

| Name of Publisher/presenter | Publications |
|---|---|
| Prof. Sheetal Bukkawar | 1. " Novel Pentagonal shape Meander Fractal Monopole antenna for UWB applications" , Springer International conference on Computer networks, big data and IOT ( ICCBI), Madurai, India, December ,2018 |

## Student Achievements

- Poorti Kulkarni, Priyanka Nayak, Komal Duddam, Sonali Raut, " A review of MIMO antennas with various mutual couplin reduction techniques", International conference of Engineering confluence and lotfi zadeh center of excellence, September 2018.
- Smit patil - achievements from July 2018 to Dec 2018
    1. Got selected for Maharashtra state powerlifting championship representing Mumbai district in July 2018
    2. Secured 4th rank in maharashtra state powerlifting championship held at PUNE ON 18 to 20 of August 2018
    3. winner in fitness program survival of fittest organised by rotaract club of saraswati college of engineering in dec 2018

**EDITOR:**

**Prof. Mandeep Kundhal**