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: Jan '19– June'19   *Vol.22*

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)-

➢ To embed a strong foundation of electronics and telecommunication engineering fundamentals to identify, solve, analyze and design real time engineering problems as professional or entrepreneur for the benefit of the society.

➢ To motivate and prepare students for life long learning and research to manifest global competitiveness.

➢ To equip students with communication, teamwork and leadership skills to accept challenges in all facets of life ethically.

Program Outcomes (PO)-

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

- Apply the knowledge of Mathematics, Science and Engineering fundamentals to solve complex Electronics and telecommunication engineering Problems.

- Identify, formulate and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics and engineering sciences.

- Investigate complex Electronics and telecommunication engineering problems and find appropriate solution leading to valid conclusion.

- Design an electronic system or process to meet specified needs with appropriate attention to health, safety, standards, environmental and societal considerations.

- Create, select and apply appropriate techniques, resources, advanced engineering and software tools necessary to analyze and design telecommunication engineering problems.

- Understand the impact of Electronics and telecommunication Engineering solutions on society and environment for sustainable development.

- Understand societal, health, safety, cultural and legal issues and responsibilities relevant to engineering profession.

- Apply professional ethics, accountability and equity in engineering profession.

- Work effectively as a member and leader in multidisciplinary team for a common goal.

- Communicate effectively within a profession and society at large.

- Appropriately incorporate principles of management and finance in one's own work.

- Identify educational needs and engage in lifelong learning in a changing world of technology.

Program Specific Objectives (PSO):

- Identify, understand, formulate and analyze the complex engineering problems in communication engineering, signal processing, Embedded systems and electronics engineering.

- Plan and execute efficient, safe, sustainable and cost-effective development of Electronic circuits, Antennas, televisions, RADAR, satellite and optical fiber systems using modern tools ethically.

"Industrial Visit"

(11th January, 2019)

Industry: - Industrial Visit to CETTM MTNL

Number of Students:- 64

Staff coordinators: -

Prof. Naresh Kr. Joshi

Centre for Excellence in Telecom Technology and Management (CETTM), has been established by MTNL with state-of-the-art facilities to impart training in Telecom Technology and Management Studies. CETTM enables professionals to acquire knowledge and skills to perform effectively in the rapidly advancing telecom and information technology sector.

Latest technologies like MPLS, NGN, GSM, 3G, Intelligent Networks, IPv6, FTTH, explained by expert Engineers to our students.
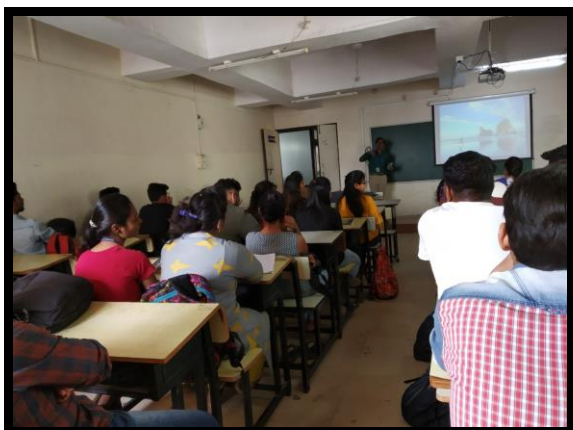

"Workshop on Networking and Communication using Internet"

(21st January, 2019)

This Workshop on" Introduction to Networking and Communication Using Internet "for final Year [DIV A] students. This seminar was conducted by Mr. Rajendra Jadhav. this Workshop was beneficial for them to gain some practical knowledge in networking and also it was increasing their interest in IVC subject. Components in Physical Layer

Use of Router, Switch, Modem, Server, HUB, Bridge, Installation of LAN, ethernet and its installation, Wireless LAN and Installation of Client Server Model, Fault Finding /Trouble Shooting with Networking between Different LAN, LAN and Internet, Different Type of Internet Cables, Sockets, Practical use of OSI and TCP/IP Model, Different Languages /software tools and DHCP, TCP protocols like topics were covered in workshop.

The workshop is coordinated by Prof. Nilesh Patil.

"Robotics Workshop""

(20th January, 2019 to
21st January, 2019)

ETSA (Electronics and telecommunication Student Association) formed by the students of Electronics and telecommunication Engineering conducted the Level 1 Robotics workshop to foster the growth of knowledge in the robotics field amongst the students. The ETSA

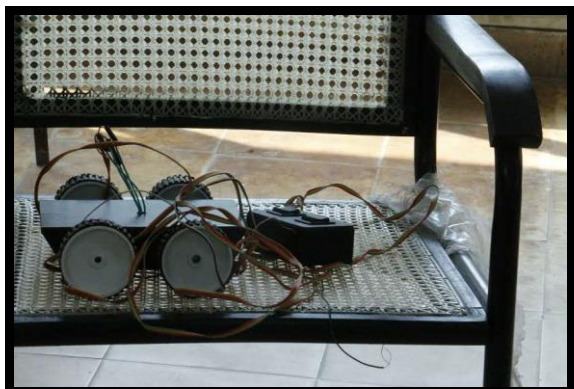actively organizes and participates in technical activities of the department

As per schedule of EXTC Department, event started at 10:00 am in presence of Respected HOD Prof. Sheetal Bukkawar, and faculty coordinator Prof. Pallavi Kharat, the and all the EXTC faculty and the students of EXTC Department.

In this Robotics Workshop the main agenda was to give a brief idea where the participated students could understand the robotics basics, introducing them with various components. Active participation and interest were shown by the participated students, at the end of the workshop it was possible for them to make

a first level robot with the entire kit. The workshop was conducted successfully.

"Dance Workshop"

(21st Jauary, 2019)

The ETSA Committee arranged a Dance Workshop on 24/01/2019, thursday. The chief guest for the workshop was Shubhda Parjane, she was the participant in many of the Dance shows and also a choreographer.

The participants included girls from EXTC and all the other departments. The Engineering syllabus being very vast and difficult needs some relaxation. So this workshop was conducted for fun and enjoyment along with that it also gave the participants a professional dance training by Shubhda Ma'am.. Prof. Pallavi Kharat was the faculty co-ordinator for the event.
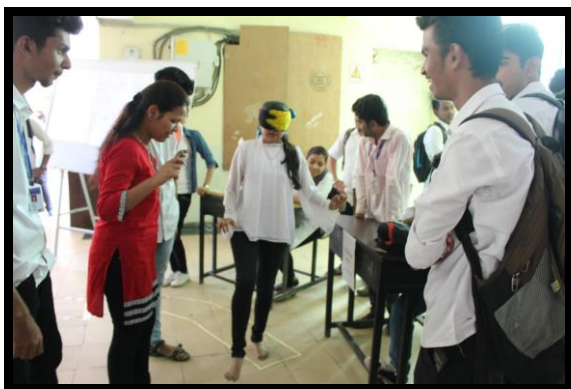
"FUN FAIR"

(06th February, 2019)

The Electronics and Telecommunication Student Association has organized "Fun Fair" on 6th Feb.2019. The motive behind conducting the fun fair was to provide a fun filled environment for students from their busy academic schedule and showcase talent of students at university level. Event started at 2.00pm with inauguration by honourable HOD, Prof. Sheetal Bukkawar in presence of all the teaching and Non-teaching faculties.

Various games such as 'Treasure Hunt', 'Mad-o-Matrix', 'Mini Militia', '7Up 7Down', 'Blindfold', 'Circuit Breaker', 'Luck by Chance' were organized for students. Students as well as Faculties participated in games. Extra care was taken for the uniqueness of food and games. There was also major attraction of food stalls, Treasure hunt and Mad-o-Matrix. Also, special care had been taken for fire safety.

Thought out to be a grand success which not only give the opportunity to students for the practice of entrepreneurship but it refreshes them and faculties too was also major attraction of Treasure hunt and Mad-o-Matrix. Also, special care had been taken for fire safety.

Thought out to be a grand success which not only give the opportunity to students for the practice of entrepreneurship but it refresh them and faculties too. The event ended at 5.30pm on same day.

"Expert lecture on Digital VLSI Design"

(05th March, 2019)

Expert lecture on Digital VLSI Design was conducted by Mr. Vishal Gore, Member of Technical Staff, Karnataka Microelectronics Pvt. Ltd., on 05th March, 2019 for Third year students. Total 81 students were present for the seminar In this seminar he discussed various

fundamentals of Digital VLSI Design with industry perspective and problems faced by designer while designing devices practically.

He also discussed various types of embedded system and scope in Industry and how to get prepare for industry technical rounds. Software tools used in industries for designing digital circuits were explained.

After seminar students asked their doubts with expert faculty and they have shown their interest to learn more about VLSI industry practical techniques.

This lecture was co-ordinated by Prof. Sneha Burnase to make student aware of the industry related work with related with the theory they are learning in subject.

WORKSHOP On "Cyber Security" by A.T.S. Infotech

(07th March, 2019 to 10th March, 2019)

No. of Students: 34
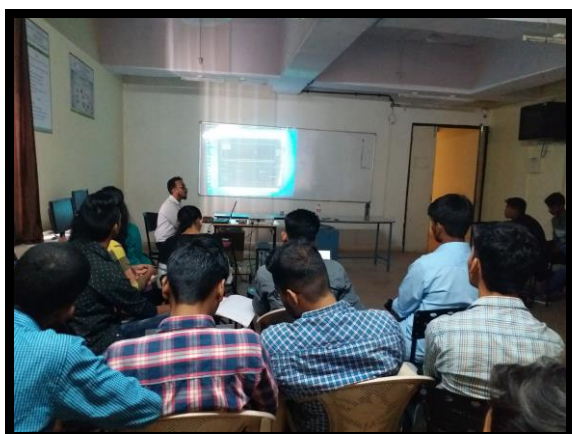
Duration- 9:00 AM to 5:00 PM

Organized by: A.T.S. Infotech

The four days' workshop on Cyber security was conducted by A.T.S. Infotech. Recently, MOU is signed with ATS Infotech on 16th Jan 2019.

In this workshop Mr. Jai Chaudhary discussed various fundamentals of cyber security and hacking techniques. He also discussed various types of viruses and malwares and told students how to resolve such problems with Hacking Psychology, E-Mails: Exploitation and Security, Operating System Hacking & Security, Malwares: Trojan, Viruses & Worms, Attacks Related to Network & Security (LAN/WLAN) and Software Reverse Engineering and Attacks on Demand.

Student learnt the various tricks regarding cyber security. Workshop was majorly based on Practical skills. The entire workshop was co-ordinated by Prof. Sneha Burnase and prof. Sarita Kale.

"IETE Approved National Level Technical Poster Competition"

(2nd Apil, 2019)

Organizing Department: Electronics and telecommunication Engineering and ISF [SCOE, E & TC]

Duration: 10.00 am to 5.00 pm

Number of Participants: Total 120 students Including other College

A memorable technical poster competition was organized in our college. The objectives of Poster Competition are to provide an opportunity for the technical students to demonstrate their independence, originality and ethics. And also we like to train the students to showcase their talent, skills and ideas through their projects. This Event is Approved by IETE and in this poster size already mention as A2 and A3 format and also as per the branch Topics already

mention in registration form. This event was whole day long and was held in the labs and drawing hall.

In this event, many students from different colleges from our city took part. The event commenced by the arrival of various groups of colleges. There were 2 rounds, the 1st round was started at 11:30 AM and judges of our own college had examined their posters and given the marks based on their presentation and explanation. All participants had given their best to explain their poster. After 2hr result was declared and selected student was forwarded to next round. After that all of them had given break for half an hour.

Then the Chief Guest, Prof. Shishir Jagtap from S.I.E.S College arrived. 2nd round was started at 2PM. All students presented better than before to present to Chief Guest, marks were given to participants and final list of winners was made. Prof. Sheetal Bukkawar [HOD E&TC], Prof. Vaishali Jadhav [IT HOD], Prof. Sorte Sir [MECH HOD], Dr. Deepa Madam [HOD COMP] and Prof. Shishir Jagtap from S.I.E.S College were the judges of the event.

All participants were gathered in seminar hall for prize distribution ceremony. It was followed by a welcome speech given by the Principal of our college. Then there was bouquet presentation to the invited guests and the ceremony began. It was followed by the announcement of the winning teams. The group from Vishwa Niketan College bagged 1st position. The team from our college bagged second and third position and everyone complimented one another. and rest of the participants got the participation certificates. Students were really enjoyed a lot and dispersed with a sincere hope that such events should be organized time and again giving the students a chance to display their talents.

This event was coordinated by IETE coordinator Prof. Nilesh Patil.

"Alumni Meet"

(07th April, 2019)

"Alumni Meet" was an event organized by E&TC Dept. On 07th April 2019 Coordinated by Prof. Naresh Joshi and Prof. Nilesh Patil under the guidance of head of E&TC department Prof. Sheetal Bukkawar madam where in our past alumnus were invited to share their experiences with the students. Event also supported by Prof. Rajashri Narwade ,Prof. Sarita Kale and Prof Sneha Burnase The Event were Started at 4 pm with the lightning of Lamp Followed with HOD Speech and welcome all the alumnus.

Total 42 alumni attended the meet and have given their valuable input for improvement of institute and also shared their working experience with their juniors.

Alumni gave their participation in all the activities along with their friends and teachers. Alumni were also happy to see the development of Institute and department. They shared their experience with junior batches. Few alumni approached us regarding placement by giving the current students an opportunity to apply in their respective organization.

Food and Music System was arranged at Cafeteria for alumni. Every alumni retuned with joy and proud feeling for their College.

"FAREWELL 2K19"

(19th April, 2019)

ETSA (Electronics and Telecommunication Student Association) arranged a farewell for the B.E. students of 2019 batch of EXTC department. There was a great response from students upon pitching the idea to them and the work for the event.

The farewell was held on 19 April 2019 , Wednesday from 4PM to 9PM at FLY HIGH Pub in SGC mall situated in seawoods.

Students enjoyed the farewell a lot and mostly positive feedback was given. Dance and food were organised as well with distribution of momentos at the end of the event. Games and interactive activities were conducted for the students.

Students Achievements

⬇ Placement Details

We proud and glad to notify that our following final year students have been placed in company named Sutherland.

- ➢ **Poorti Kulkarni**

- ➢ **Tanmay Mahapankar**

- ➢ **Pratik Bhoir**

- ➢ **Yogita Dubey**

- ➢ **Punit Deshmukh**

Faculty Achievements

Name of Publisher/presenter	Publications
Prof. Sheetal Bukkawar	"Study of various mutual coupling reduction techniques in MIMO antennas", IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India, in January 2019
Prof. Vijay Kapure	"Smart Automatic Garbage classification and collection management system", ICATE-2019 Airoli, Navi Mumbai, India, in April 2019
Prof. Sneha Burnase	"Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization" , IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India, in January 2019
Prof. Sarita Kale	"Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization" , IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India, in January 2019
Prof. Naresh Kr. Joshi	"Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization" , IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India, in January 2019
Prof. Nilesh Patil	1. "Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization" , IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India, in January 2019 2. "Smart garbage collecting and monitoring system using GSM and GPS", International Journal of Emerging Research and Development at April 2019 3. "Image Segmentation Algorithm based on Particle Swarm Optimization and Darwinian Particle Swarm Optimization" , IEEE International conference on Inventive systems and control (ICISC), Coimbatore, India, in January 2019

EDITOR:

Prof. Sneha Burnase