



Saraswati Education society's
Saraswati College of Engineering

Plot no: 46, Sector 05, Near Utsav Chowk, Kharghar, Navi Mumbai, 410210.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Newsletter: Jul'16 – Dec 16

Vol.17

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 EXTC dept. is always striving to achieve academic excellence which can help our student to become all-rounder and represent themselves globally. We encourage our students for higher studies like MTech and MS. We conduct attitude test, activities that can help them to boost their confidence, Leadership qualities and hidden talents. We also organize technical workshops, Seminars and competition which help them to bridge the gap between academics and industry.

We also support our faculties in their overall development by encouraging them to attend and organize various STTP and Workshop that can hone their interpersonal as well as technical skills

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.

“PCB Designing Workshop”

(22th August, 2016)



Electronics and Telecommunications Student Association has organized Two Days Workshop on “PCB Design” during 22nd & 23rd September, 2016. The workshop was aimed to provide knowledge about simulation tool to test electronics & electrical circuit in software environment, PCB design software named Proteus and to make physical PCB at home so that any student can make project on his own.



As per schedule of EXTC Department, event started at 9.30am in presence of honourable Principal Dr. Manjusha Deshmukh, HOD Prof. Sheetal Bukkavar, and faculty co-ordinators Prof. Neha Mahajan and Prof. Pallavi Kharat and Third Year students.



Event started with the speech by Principal and HOD followed by software session by B.E. students Uday Yadav, Madhav Prabhu, Swanand Vichare, Mukesh Chaudhari, Rahul Darne and Akshay Karadkar. They started with introduction of PCB Designing, Benefits of the workshop and its applications. Students were taught the basics of microcontroller 8051, programming of the microcontroller and the designing of circuit.



The hardware session gave the students hands on experience of making PCB boards. The topics covered were tracing of Tracing of tracks, Etching, Placing components and Testing of circuit. All the students responded that they have learned and had hands on experience in designing a PCB.

“Teacher’s Day Celebrations”

(26th August, 2016)



As per schedule of EXTC Department, event started at 2:00pm in presence of honourable Principal Dr. Manjusha

Deshmukh, HOD Prof. Sheetal Bukkawar, and faculty co-ordinators Prof. Pallavi Kharat and Prof. Neha Mahajan, all the teaching and non-teaching faculties.



Event started with the speech by Principal and Faculty co-ordinators of ETSA followed by formal Induction of ETSA Committee. Induction concluded at 4:00 pm and refreshments were provided to everyone. Games were organized for the faculties and prizes were given to the winners. It was a fun and successful event. The event concluded with short speech by HOD madam and Group photo of new ETSA Committee with faculty co-ordinators and HOD.



Workshop on Mobile Communication

(27th -28th Aug, 2016)

Electronics and Telecommunication has organised 2 days workshop on “Mobile Communication” on 27th -28 th Aug, 2016.



The workshop was conducted for final year students. The subject experts were Mr. Anugrah Chavhan, Mr. Anup Masurkar, Mr. Abhinav Anand, Priyanshu Saraf, Mr. Shabbir mulani who explain the basic of Mobile Communication, Datawarehousing, Teradata ,abinitio, packet tracer.



Workshop on Red Hat Linux & IMS

(22nd to 25th September 2016)

Electronics and Telecommunication has organised 4 days' workshop on “Red Hat Linux & IMS”. The session was inaugurated by our respected principal Dr. Manjusha Deshmukh, HOD Prof. Sheetal Bukkavar & Guest of Honor Dr. Munir Sayyad GM Reliance Jio along with Prof. Vijay Kapure and Prof. Bhoomi Patil.



The session started with the introductory speech by Dr. Munir Sayyad on current trends & future perspectives on this workshop.



Expert Lecture on Advances in Antennas (3rd October 2016)

Expert Lecture on Microstrip Antennas was conducted by Electronics and Telecommunication Department for T.E students of A & B- division on 3rd October, 2016. The speaker for the lecture was Dr. Rajiv Gupta.



He discussed the importance of antenna and advantages of Microstrip antennas. He also told that these antennas are low profile, conformable to planar and nonplanar surfaces, simple and inexpensive to fabricate using modern printed-circuit technology, mechanically robust when mounted on rigid surfaces, compatible with MMIC designs.



“FUN FAIR”

(07th Oct, 2016)

Electronics and Telecommunication Student Association has organized “Fun Fair” on 7th October, 2016. 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 honorable 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 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



Expert lecture on Circuit Theory and Transmission Lines

(7th OCT,2016)

E&TC Dept. had organized a guest lecture on Circuit Theory & Transmission Lines for direct second year students on 7th October 2016. The Speaker of the session was Mr. Kadar Shaikh, who is presently working in Vivekanand Education Society's Institute of Technology, Chembur.



Mr. Shaikh had covered topics which was important for University exam like Synthesis of RL, RC, LC circuits, Two port networks and D.C. Circuits. He also discussed about the paper pattern and study plan for the subject. At the end of the lecture a question answer session was also held.

Expert Lecture On “Trends in Communication”

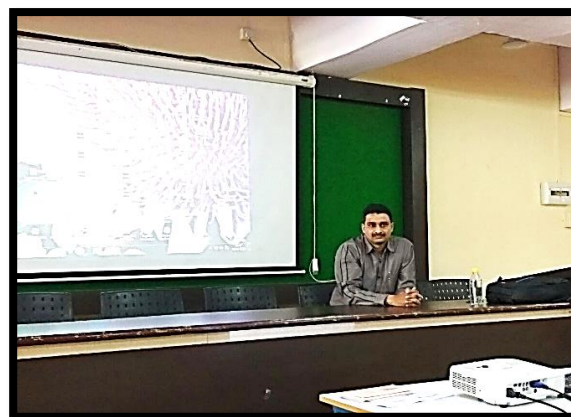
(8th OCT,2016)

Expert Lecture on “Trends in Communication” based on the syllabus of Analog communication (TE SEM-V) of E&TC Engineering was organised on 08/10/2016 for TE (A & B) division

The invited speaker Mr. Vivek Dethe, Assistant Director(ERP-HCM), BSNL, Santacruz (W), Mumbai highlighted the future of communication and the technologies associated with it.



He started the session with the basic of communication and emphasized on the role of next generation network. It was an interactive session in which the TE students answered the question asked by the speaker and also got their queries solved.



It was a fruitful one-hour knowledge sharing session in which Mr. Dethe shared his expertise on the topic of communication. He also explained his role in BSNL and the work he performs. He also stressed that the students should understand the need of the industries and accordingly learn new technologies



Students appreciated the fact that the speaker Mr. Vivek Dethe was awarded “Sanchar Seva Padak” for outstanding work in telecom in 2005 by Government of India.

Expert Lecture on Data Compression and Encryption

(10th Oct, 2016)



E&TC Dept. had organized a guest lecture on system security on the syllabus of data compression and encryption on 10th October 2016 for BE students .

The Speaker of the session was Mrs Amina Qazi, Assistant professor of Bharati Vidyapith, Kharghar. Mdam had covered topics which was important for University exam. She also discussed about the paper pattern and study plan for the subject. At the end of the lecture a question answer session was also held.



Expert Lecture on Analog Electronics-I

(11th – 12th November, 2016)

Expert lecture on Analog Electronics-I was conducted by Electronics and Telecommunication department for **S.E students** of A & B- division on **11,12 November** 2016. The lecture started at 9.45 am after a brief introductory speech by Prof. Sarita Kale.



The speaker for the lecture was Prof. Gulam H. Vakil. The topics that were covered in the lecture are BJT DC and AC analysis, FET DC analysis, brief overview of entire subject, important topics for university exam. The lecture lasted till 1:30 and ended with the vote of thanks. The contents covered in the lecture were very informative and beneficial for the students.

Industrial Visit

(25th DEC, 2016)

Name of Industry: - PEDA(Punjab Energy development Agency) & AIR(All India Radio)

Venue: - Chandigarh, North India

Class:- BE & TE (E &TC)

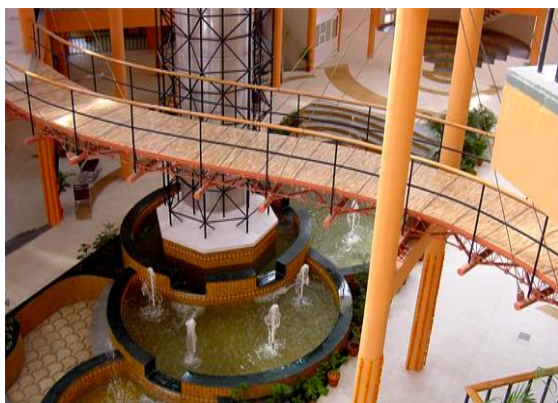
Number of Students:- 81

Staff coordinators: - Prof. Vijay Kapure,
Prof. Faisal Khan,
Prof. Bhoomi Patil,
Prof. Snehal Barge,
Prof. Suchitra M.

Date: - 25th December 2016

EXTC department had organized Industrial visit to PEDA(Punjab Energy development Agency) on 25th December 2016 in the morning Session . In this visit 81 students and 05 Staff members of Electronics & telecommunication department visited the industry.

The session started with a two hours introductory lecture on Renewable energy



sources and their use for saving energy. The

trainers introduced the students to the basic concepts on telecommunication.



Punjab Energy Development Agency was formed in Sept. 1991 as a state nodal agency for promotion and development of renewable energy programs /projects and energy conservation programs in the state of Punjab. PEDA is registered as a Society under the Societies Act of 1860.



AIR (All India Radio)

EXTC department had organized Industrial visit to AIR (All India Radio) on 25th December 2016 in the forenoon session . In this visit 81 students and 05 Staff members of Electronics & telecommunication department visited the industry.



As India's National Broadcaster and also the premier Public Service Broadcaster, All India Radio (AIR) has been serving to inform, educate and entertain the masses since its inception, truly living up to its motto – 'Bahujan Hitaya : Bahujan Sukhaya'. One of the largest broadcasting organizations in the world in terms of the number of languages of

broadcast, the spectrum of socio-economic and cultural diversity.



Students Achievements

Result At Glance

List of Toppers for Academic Year- (NOV-DEC 2016)

S.E. SEM-III

Sr. No	Name	SGPI
1.	Wagh Suyash	8.15
2.	Patel Ekta	7.85
3.	Patil Smit	7.15

T.E. SEM-V

Sr. No	Name	SGPI
1	Naregal Suchitra	9.7
2	Patil Abhijit	9.41
3	Gaikar Chaitali	9.22

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 are proud and glad to notify that our following final year students have been placed.

Date of Placement	Placed in	Branch	Student Name	Package
05-01-2017	NUCSOFT	EXTC	Mansi Harishchandra Girkar	3.00 lac
05-01-2017	NUCSOFT	EXTC	Pal Ketan Ramashankar	3.00 lac
13-01-2017	Selec Control	EXTC	Sushant Subhash Rajbhar	3.00 lac
13-01-2017	Selec Control	EXTC	Dipin Pillai	3.00 lac

Students Achievements

Our students of BE EXTC 2017 had participated at State level project competition on ENERGY SAVING held on 20th December 2016 at MIDC Taloja, Raigad, Maharashtra under the faculty mentor Prof. Umesh Pinjarkar. This event was arranged /presented by TechNova Imaging Systems(P) Ltd in association with International Society of Automation(ISA) Maharashtra Section.

Faculty Mentor: Prof Umesh Pinjarkar

Name of the Students

- Rahul Darne,
- Mukesh Chaudhari
- Dominic Irudharaj
- Akshay Karadkar



Faculty Achievements

Publication in International Journals/Conferences

Name Of Publisher/presenter	Publications
Prof. Suchitra Majumdar	1. An Experimental Prototype for Breast Cancer Detection Using Microwaves 2. RFID tag security, personal privacy protocols and privacy model
Prof. Naresh Joshi	1. Y-Shaped Microstrip Patch Antenna, IEEE xplore, Sep 2016. 2. Study of E-Shaped Patch Antenna with two additional Rectangular Slots, IEEE xplore, Sep 2016

Other Achievements

- Research Proposal Sent to University of Mumbai “Automatic Milk Collection Centers” for Minor Research Grant by Prof. Rajashri Narawade and Yashika Singal
- Research Proposal Sent to University of Mumbai “3-Dimensional Video Processing Using Holographic Projection Technology” for Minor Research Grant by Prof. Pallavi Kharat and Prof. Sneha Burnase.
- Research Proposal Sent to University of Mumbai “Design and Optimization of Monopole and Micro Strip Patch Antenna Using Defected Ground Structure (DGS) for UWB Applications” for Minor Research Grant by Prof. Sheetal Bhujade

Editors:

Prof. Mandeep Kundhal

Prof. Suchitra Majumdar