SARASWATI Education Society's
SARASWATI College of Engineering
Learn Live Achieve and Contribute
Kharghar, Navi Mumbai - 410 210.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Our Inspiration

Hon. Shri Prithvirajji Deshmukh

Chairman, SES

Smt. Vrushali Deshmukh

Founder Secretary, SES

Dr. Manjusha Deshmukh

Principal, SCOE

About College

VISION: "To be universally accepted as autonomous center of learning in Engineering Education and Research."

MISSION: To educate students to become responsible and quality technocrats to fufill society and industry needs .

➢ To nurture students creativity and skill for taking up challenges in all facets 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. Neha Mahajan

H.O.D.

From the HOD's Desk:

The department of electronics and telecommunication caters to the holistic development of its students through focus on academics, sports and culture. Our distinction lies in the pursuit of high academic attainment through support, encouragement & motivation. I whole heartedly appreciate the efforts of the well experienced and motivated staff for their dedication.

The department has a reputation of conducting seminars, workshops for the faculty as well as students regularly to make them aware about the emerging fields for their professional growth. The student association from the department also keeps organizing several activities for the students to cover content beyond the syllabus.

The students are helped to focus on research, analytical thanking, confidence building through academics and co-curricular activities. I am extremely pleased that the department is empowering its students to be lifelong learners, critical thinkers and productive members of an ever changing global society. I hope that the achievements of the students and staff are reflected in this newsletter.

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 analyse 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 analyse 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.

Seminar on Anti drugs & Sociology.

(06/01/2020)

Venue: Saraswati College of Engineering,

Duration- 5.00 pm to 7.00 pm.

No. of Participants: 40

Name of Resource Person (Designation & Organisation):

 Police Commissioner, Sanjay Kumar .

Coordinator: Prof. Nilesh Patil

Navi Mumbai Police Department Celebrating police raising week from 2nd jan to 8th jan 2020 . In this ceremony Navi Mumbai police aayukt Sanjay Kumar gaves Valuable guidance on anti drugs & Sociology for the students.

He also briefed on advantage & disadvantage of social media with legal norms. In this event students got brief knowledge on cyber security .After this ceremony students have also allowed to interact with the police staff on different stalls, so they got information on Various weapons used by police force , career in police department, Criminals Data base etc. and ceremony ended with Refreshment for Students as well as Teachers coordinator.

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Seminar on
Higher education /study abroad
13/01/2020

Venue: Saraswati College of Engineering, Kharghar

Duration- 11.30 am to 12.30 pm

Resource person /Organized by : Mr.Sushil Tribhuvan from computrain

Co-coordinator: Prof. Nilesh Patil (R/D Coordinator EXTC)

The Seminar on Higher education /study abroad was conducted by Mr.Sushil Tribhuvan from computrain company on 13th jan 2020 for final year EXTC students from 11.30 to 12.30 pm.

In the first half of seminar Mr.Sushil Tribhuvan discussed Study in foreign universities and their importance in global market. Sushil sir also give brief on fee structures and working culture of foreign university and how Studying abroad provides many advantages students can gain, such as Broadening world views and ways of thinking by experiencing different cultures firsthand.

In second half Sushil sir explain various coerces after graduation and what are the financial support required for study in abroad. sir also explain the hostel facility and how to manage funds to handle the expenditure

. At the end sir got feedback from students and cleared their doubts. This seminar will benefit students with future career opportunities by providing more life experiences and personal connections by Mr.Sushil Tribhuvan.

Seminar on

How to Write Research Paper

14/01/2020

Venue: Saraswati College of Engineering, Kharghar

Duration- 10.30 am to 12.30 pm

Resource person /Organized by: Prof. Sheetal Bukkawar (Dean Administration & Students welfare)

Co-coordinator: Prof. Nilesh Patil (R/D Coordi EXTC)

The seminar on How to Write Research Paper was conducted Prof. Sheetal Bukkawar (Dean Administration & Students welfare) on 14th jan 2020 for final year EXTC students from 10.30 to 12.30 pm.

in the first half of seminar Prof. sheetal madam discussed various important points related to paper publication. Madam also gaves brief on various paper publication agencies. and their importance in research field. Seminar started with What is research and where to send it for publication , madam also explained that how to organize the paper and what are the different formats used by most popular and free publications agencies.

In second half prof. Sheetal madam explain what is plagiarism and various software available at SCOE to check it. madam also explained importance of genuine and powerful writing for acceptance of paper in national and

international journal. During seminar students also asked their doubts and got the solution for the same.

Sheetal Bhukkawar, , HOD Prof.Neha Mahajan and Prof.Nilesh Patil sir and the participants of second year and third Year students from E&TC Engineering department. The workshop began with the lightening of lamp by Performing saraswati pooja. principal Dr.Manjusha Deshmukh and HOD Prof.Neha Mahajan madam graced the workshop with their In spiring words.As the workshop started with the basic in formationa bout Arduino. Arduino is an open-source microcontroller base delectronic platform where in one canuse their logic to program it according to the required on ditions together desired objective.

Interfacing LCD,RGB,LED, Ultrasonic with Arduino topic were covered in workshop.The session ended with the vote of thanks.

Workshop Arduino

Venue: Saraswati College of Engineering, Kharghar

Duration-10.00am to 4.00pm

Chief Guest: Principal Dr. Manjusha Deshmukh

IETE Students Forum in association with Electronicsand

Telecommunication student association (ETSA) had organized two Day Workshop on "Arduino Uno"

As per schedule of E&TC Department,eventstarted at

10.00amwiththearrivalof Principal Dr.Manjusha Deshmukh,Dean Prof.

One day workshop on "Ardiuno"

Saturday, 08 February

Organizing Department: Electronics & Telecommunication Department

Duration: 8th, February, 2020 9.30 a.m. to 5.30.p.m.

Number of Participants: 15 students of EXTC & COMPS &IT branch.

Guest Speaker: This workshop will be conducted using the Spoken Tutorial methodology. Participants will learn Arduino by listening to the Spoken Tutorials and practicing them on 'Arduino kit'.Teaching Faculty: Prof. Kannan Moudgalya, Principal Investigator, PMMMNMTT,

FOSSEE and Spoken Tutorial projects will coordinate this workshop.Mr. Srikant Patnaik, Mr. Rajesh Kushalkar, Ms. Nancy Varkey and Ms. Nirmala Venkat, of FOSSEE/Spoken Tutorial projects at IIT Bombay, and Prof. G. V. V. Sharma of IIT Hyderabad will be the teaching faculty.

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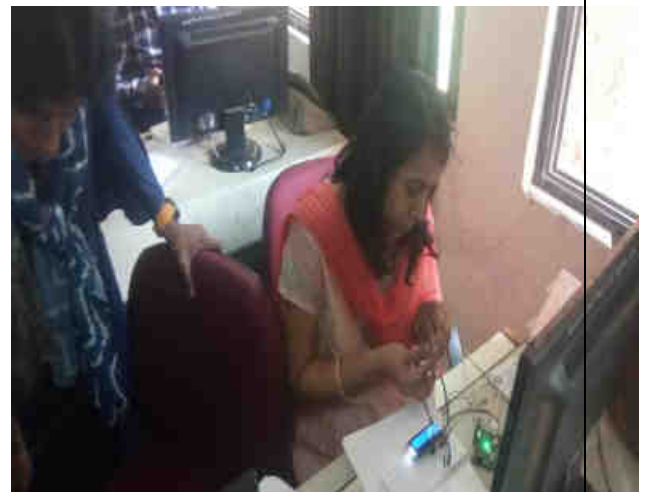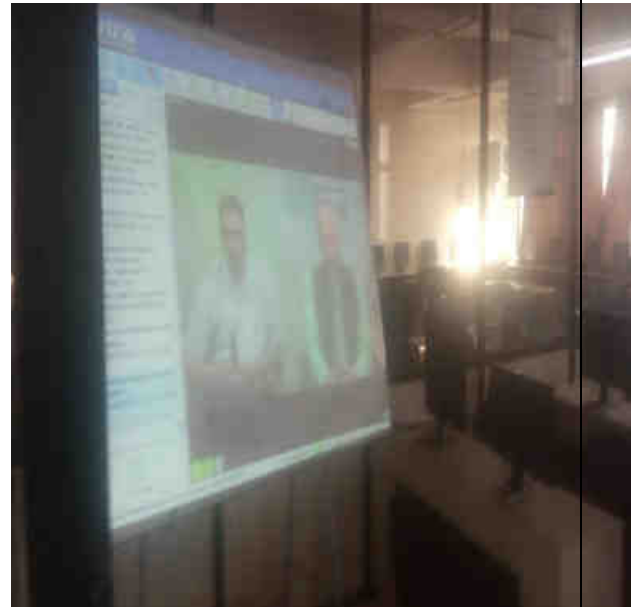
" One day Workshop on Arduino " on Saturday, 08 February 2020 is being organized by the Teaching Learning Centre (ICT) IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), an initiative of the Ministry of Human Resource Development, Government of India at Saraswati College of Engineering, Kharghar.

Arduino is an open source platform used for building electronics projects. Arduino consists

Electronic components and connections

Introduction to Arduino ,Arduino components and IDE,First Arduino Program,Arduino with Tricolor LED and Push button ,Arduino with LCD Display counter using Arduino,Seven Segment Display.Pulse Width Modulation,Analog Digital Converter

Wireless connectivity to Arduino

Participants are encouraged to go through these tutorials before they come to the workshop.

One day workshop on SQL and ORDBMS

4th march 2020

Workshop name: - SQL(structured query language) & ORDBMS (Object Relational Database Management Systems)

Venue: - Saraswati college of engineering, kharghar

Class:- T.E. EXTC

Number of Students:- 72

Workshop Experts :- Prof. Tushar Ghorpade & Prof . Aditi Chhabria

Staff coordinator: - Prof. Vijay Kapure

  One day workshop was organized for Third year students of Electronics and telecommunication students on 4th march 2020. Prof. Tushar and prof. Aditi, Faculty from R.A.I.T Nerul were the experts for this workshop. The experts were introduced and felicitated with a token of appreciation. The morning session was started with the introduction of DBMS and its relevance in EXTC branch. Various aspects related to bigdata analysis, data science and the points combining extc student to IT industry were briefly discussed by prof. Tushar G. The day was ended with the introduction of ORDBMS (Object Relational Database   Management Systems), which is one of the important topic in DBMS and has more practical exposure with respect to industry. The session was ended with a prolonged interaction with the students wherein the doubts were addressed by the experts.

The day was concluded with the valedictory ceremony, where the experts were graced by delivering vote of thanks by Prof. Vijay Kapure, Coordinator. The workshop was ended with a group photograph of the students and staffs involved in this One-day workshop.

Technovation 2.0

(9 / 04 /20)

Venue: **Saraswati** **College** **of**
Engineering, Kharghar

Duration-10.00am to 4.00pm

Chief Guest: Principal

Dr. Manjusha Deshmukh

The ISF SCOE conducted technical
poster writing competition , in which many
students from different colleges participated ,
due to lockdown the event was conducted
online , students send their posters online
via.mail which were further send for judgment
round .cash prizes were given to first 3 winners
and others got participation/appreciation
certificate for their work .
In this situation, students got a chance to do an
technical activity sitting at home.

Students Achievements

Result at Glance
List of Toppers for Academic Year- (Jan-June 2020)
S.E. SEM-IV

TOPPER LIST FOR SE 19-20 EVEN		
NAME OF STUDENT	SGPI	RANK
KURHADE NEELAM	10.00	1
NAIK JATIN RAVINDRA	9.20	2
NAIK SIDDHESH JAGDISH	9.16	3

T.E. SEM-VI

TOPPER LIST FOR DIVISION TE 19-20 EVEN		
NAME OF STUDENT	SGPI	RANK
BARATAM SHEETAL	10.00	1
DUBEY SAGAR	10.00	2
KODGULE SIDDHI	10.00	3
LOKE VISHAKHA	10.00	4
PATEL PRIYA	10.00	5

B.E. SEM- VIII

TOPPER LIST FOR DIVISION BE 19-20 EVEN		
NAME OF STUDENT	SGPI	RANK
BHANDARE NAYNA	9.04	1
WAMAN SAMPADA	8.29	2
MANDAL ANKIT	8.27	3
GOWDA RAMKRISHNA	8.17	4
GUPTA SANDHYA	8.08	5

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 following final year students have been placed in different companies

No of students placed : 20 .

Placed company Names : Nucsoft limited, Quality Kisok technology private limited, Zycus, NCDEX, Bridgelabz, Qspider, Safoo solutions Technologies, Extramaeks Education Pvt Ltd, Capgemini.

- ## Other Achievements

➢ **Roshan Bhosale, Ankit kumar Mandal, Nitesh Durgude, Mayuresh Gotarne** has participated and secured **Best Paper award in NTERNATIONAL CONFERENCE ON INDUSTRY 4.0 (03/04/2020)** organized at **Saraswati College of Engineering , Kharghar on 3rd April 2020 .**

➢ **Mr. Gajanan Ardalkar, Ms. Sandhya Gupta, Mr. Ramkrishna Gowda and Ms. Ruchi Jain** participated and secured second place for project Titled **Cloth Bag Vending Machine** at the Technovation 2.0 (Inter - Collegiate) April 09, 2020

Faculty Achievements

- **Dr. Sheetal Bukkawar**

  **Completed PhD. In Electronics and telecommunication Engineering.
  Topic - Study of Fractal Antennas for Multiband and Wideband Applications
  From Sant Gadage Baba Amravati University.**

- **Prof. Sneha Burnase And Prof. Sarita Kale has received University minor
  Research Grant for the project "Smart Accident Detection and Tracking
  system"**

- ## Publication in International Journals/Conferences

Name of Publisher/presenter	Publications
Prof. Nilesh Patil	**Book published**- 1. New Techniques for OFDM - LAP Lambert Academic Publishing.20/01/0.

STTP and Workshop Attended by Faculty

Name of STTP/FDP/ Workshop	Faculty Name	Duration		STTP/FDP/ Workshop
Online course on Examination Reforms conducted by AICTE	Dr. Sheetal Bukkawar	29/4/2020	02/05/2020	3 days workshop
Antenna Designing and troubleshooting	Dr. Sheetal Bukkawar	03/06/2020	07/06/2020	one week STTP

Machine Learning and applications	Dr. Sheetal Bukkawar	18/5/2020	23/5/2020	one week STTP
Research , Funding projects and IPR	Dr. Sheetal Bukkawar	7/5/2020	10/5/2020	4 days FDP
Spoken tutorial on "LATEX" by IITB	Dr. Sheetal Bukkawar	27/4/2020	2/5/2020	one week STTP
Spoken tutorial on : SCILAB" by IITB	Dr. Sheetal Bukkawar	11/5/2020	15/5/2020	one week STTP
Webinar series on : Technological advancements in the field of Electronics & Telecommunication Engineering	Dr. Sheetal Bukkawar	5/5/2020	9/5/2020	One week
Seminar on "Antenna design through simulation using TaraNG:19.1"	Dr. Sheetal Bukkawar	18/5/2020	18/5/2020	one day
Expert Lecture on " Effective Teaching Methodology"	Rajashri Narwade	5/5 2020	5/5 2020	one day
Expert Lecture on "IPR and Patenting"	Rajashri Narwade	11/5 2020	11/5 2020	one day
Webinar on Conference Leadership Program-II	Prof. Neha Mahajan	24/3/2020		one day
Webinar on Blockchain technology for smart contracts	Prof. Neha Mahajan	3/5/20	6/5/20	one week STTP
FDP on Research, funding projects and IPR	Prof. Neha Mahajan	7/5/20	10/5/20	one week STTP
Webinar on 5G communication of Next Generation	Prof. Neha Mahajan	14/5/20		one day
National level quiz on A tour to commutation Engineering	Prof. Neha Mahajan	15/5/20		one day
STTP on sensors, IOT & ML	Prof. Neha Mahajan	1/6/20	5/6/20	one week STTP
Webinar on Cyber security	Prof. Neha Mahajan	6/6/20		one day
webinar on , " Post covid 19 enterpreneurship and indusry 4.0"	Rajashri Narwade	12/5 2020	12/5 2020	one day
webinar on , " Futuristic Engineering"	Rajashri Narwade	13/5 2020	13/5 2020	one day
Webinar on IoT (Internet of Things)	Rajashri Narwade	14/5 2020	15/5 2020	two day
Spoken tutorial on "LATEX" by IITB	Sarita Kale	27/4/2020	2/5/2020	one week STTP
Spoken tutorial on : SCILAB" by IITB	Sarita Kale	11/5/2020	15/5/2020	one week STTP
FDP" Opportunities & Challenges in Electronics & Allied industries in India Post	Sarita Kale	25/5/20	30/05/20	one week FDP

COVID-10"				
FDP "moodle learning management system"	Umesh Pinjarkar	29/05/2020	31/05/2020	Three day FDP
Webinar on "basics of IPR (Intellectual Property Rights)"	umesh Pinjarkar	26/04/2020	26/04/2020	one day
Webinar on "Role of Infilibnet in higher education: Special reference to college teachers and researchers."	umesh Pinjarkar	23/04/2020	23/04/2020	one day
Spoken tutorial on : SCILAB" by IITB	umesh Pinjarkar	20/01/2020	30/01/2020	Ten days
Webinar "Tips on how to select a Conference to publish your Research work "	umesh Pinjarkar	16/05/2020	16/05/2021	one day
Webinar on "Building Strong Immunity during Covid-19 Pandemic (AYUSH – A GOI Initiative)"	umesh Pinjarkar	26/04/2020	26/04/2020	one day
One Day Coordinators' Workshop on Arduino' at IITB	umesh Pinjarkar	18/01/2020	18/01/2020	one day
One Day workshop for Teachers' Workshop on Arduino' at SCOE	umesh Pinjarkar	08/02/2020	08/02/2020	one day
Webinar on " Antenna Design throgh simulation using Tarang 19.1	Naresh Kumar Joshi	18/05/20	18/05/20	One day
FDP on " SCILAB"	Naresh Kumar Joshi	11/05/20	15/05/20	Five days
FDP on "Drupal"	Naresh Kumar Joshi	27/04/20	02/05/20	SIX DAYS
FDP on Antenna design and troubleshooting	Naresh Kumar Joshi	03/06/20	07/06/20	Five days
Webinar on "Metamaterial based leaky wave antenna"	Naresh Kumar Joshi	03/06/20	03/06/20	One days (International)
FDP on " Technology on Disaster Management"	Naresh Kumar Joshi	21/05/20	02/07/20	5 week
Webinar on Role of Review of Related literature in the research	Sheetal Bhujade	15th May, 2020.	15th May, 2020.	one day
One Week Online Faculty Development Program on"Research Methodology and Tools"	Sheetal Bhujade	11/05/20	15-05-2020	one week
4 days on l i ne Faculty Development Program on "Research, Funding Projects	Sheetal Bhujade	07/05/20	10/05/20	4 days

& IPR "				
webinar on "Towars excellence in higher education in 21st Century	Sheetal Bhujade	10/05/20	10/05/20	one day
International Webinar on "Application of ChanakyaNiti in Modern Education"	Sheetal Bhujade	11/05/20	11/05/20	one day
Spoken tutorial on : SCILAB" by IITB	Sheetal Bhujade	4/5/2020	09/05/2020	one week STTP
webinar on , " Post covid 19 enterpreneurship and indusry 4.0"	Pallavi Kharat	12/5 2020	12/5 2020	one day
Webinar on IoT (Internet of Things)	Pallavi Kharat	14/5 2020	15/5 2020	two days
5 days National Online Faculty development program on "Artificial Intelligence "	Pallavi Kharat	22/5/2020	26/5/2020	five days
Completion of Online quiz on Data Science	Pallavi Kharat	30/5/2020	30/5/2020	one day
One week Online faculty development program on " Data Science "	Pallavi Kharat	26/5/2020	30/5/2020	Five days
Latest Trends and Challenges in IT Industry	nilesh b patil	15.06.2020	to 20.06.2020	one week STTP
Spoken tutorial on "Dhrupal" by IITB	nilesh b patil	27/4/2020	2/5/2020	one week STTP
research , Funding projects and IPR	nilesh b patil	7 /05/20	10/05/20	ONE WEEK
Seminar on " worlds largest sales trainio g webinar by vivek bindra "	nilesh b patil	31/05/20	31/05/20	one day
"Opportunities and Challenges in Electronics and allied Industries in INDIA post Covid-19"	nilesh b patil	25/05/20	30/05/20	one week STTP

EDITOR:

Prof. Sarita Kale