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: July 20– Dec20 *Vol.25*

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.

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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.

National Level webinar

National Level webinar

on

"LTE and 5G Protocol Stack Testing"

Date: 29th August 2020

Venue: Saraswati College of Engineering,

Duration- 10.45 a.m. to 3.30 p.m.

No. of Participants:108

Name of Resource Person (Designation & Organisation):

Mr. VirenderSolanki , Mrs. Priyanka,

Mr. SamdhanJadhav and Mr. Sagar

Technopark Business Solution Pvt. Ltd, Navi Mumbai

Coordinator: Prof. Naresh Kumar Joshi &Prof.NileshPatil

This webinar was conducted to enhance the knowledge about 5G technology, as well as to make aware all about industry demand for future engineers. Through this webinar, we have provided a platform for industry –institute interaction on current technology scenario. This webinar was attended by teachers and students from all over the India. The below mentioned topics are delivered by industry experts from Technopark Business Solution Pvt. Ltd, NaviMumbai .

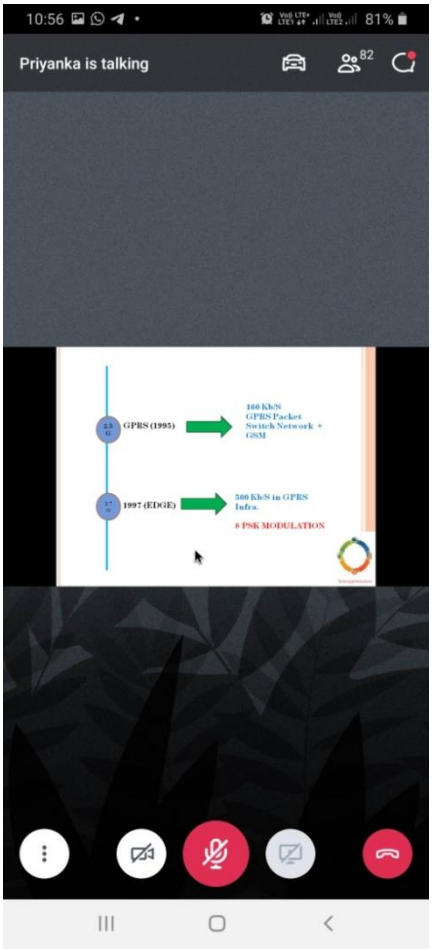
Topics of webinar:

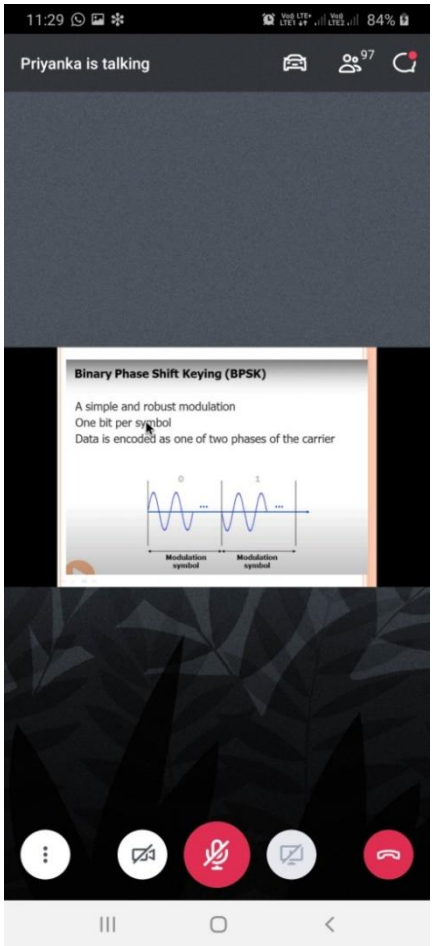
- Road Map of 2G,3G,4G and 5G
- Technology Comparison.
- What is Need of Advance Communication?
- What is SCFDMA, OFDMA
- What are QAM technologies.
- Lte Architecture.
- What is 5G and Its advantages Over 4G.
- 5G New use case
- Qxdma, Wireshark Tool introduction

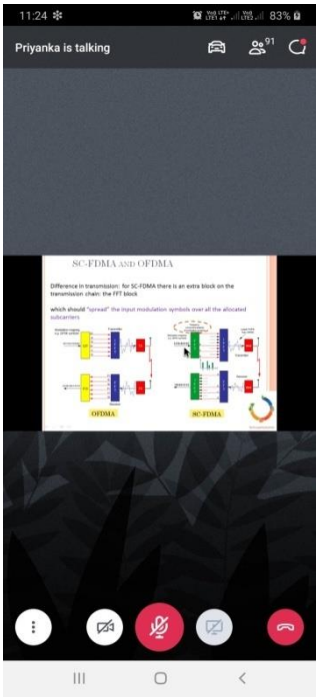
The experts explained details of 5G ie. Fifth generation of cellular technology. They explained that It is designed to increase speed, reduce latency, and improve flexibility of wireless services. 5G technology has a theoretical peak speed of 20 Gbps, while the peak speed of 4G is only 1 Gbps.

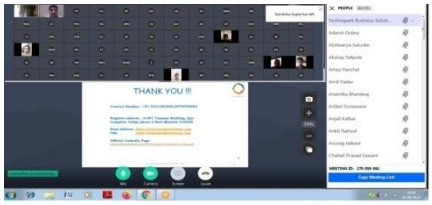
5G also promises lower latency, which can improve the performance of business applications as well as other digital experiences (such as online gaming, video conferencing, and self-driving cars).

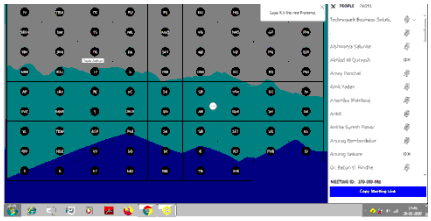
While earlier generations of cellular technology (such as 4G LTE, 3G and 2G) focused on ensuring connectivity, 5G takes connectivity to the next level by delivering connected experiences from the cloud to clients. 5G networks are virtualized and software-driven, and they exploit cloud technologies











Webinar on

“AI in health care”

Date : 21/8/2020

Venue: Saraswati College of Engineering,

Duration- 10.45 a.m. to 3.30 p.m.

No. of Participants:250

Name of Resource Person (Designation & Organisation):

Dr. Deepa Parasar, Amity University Mumbai

Coordinator: Prof.Suhasini P, Mahi K&Prof.NileshPatil

Considering the present condition of Pandemic impact due to Covid-19,Saraswati College of Engineering had organized , IETE Approved National Level online Webinar on “ AI in Healthcare” under Research & Development Cell on 20th August 2020 which was open for students , faculty and industry persons ,reseachers etc. from other institution and organisation.The webinar was delivered by **Dr. Deepa Parasar, Amity University Mumbai ,Resource Speaker** , on Applying Artificial Intelligence in Healthcare: Challenges, Opportunities and Emerging Applications. The webinar was very informative and thought provoking and also all participants got benefitted from the subject. The webinar was conducted on Google meet and also on YouTube Live at same time .Around 250 participants have registrated and certificates through feedback form were sent on mail id

Students Achievements

Result at Glance

List of Toppers for Academic Year- (June-Dec 2020)

S.E. SEM-III

TOPPER LIST FOR SE 20_21 ODD		
NAME OF STUDENT	**SGPI**	**RANK**
RATHOD BADHU	9.62	1
KADU BHAVIKA	9.62	1
PARAB SANKET	9.62	1
GAIKWAD RISHIKESH	9.50	2
BARANWAL ROHIT	9.38	3

T.E. SEM-V

TOPPER LIST FOR DIVISION TE 20_21 ODD		
NAME OF STUDENT	**SGPI**	**RANK**
BANDIWADEKAR YASH SANTOSH SAYLI	10.00	1
ADKAR SHITAL EKNATH KALPANA	9.96	2
NAIK SIDDHESH JAGDISH SANJANA	9.85	3
VISHWAKARMA SUSHIL KUMAR VIJAYPRAKASH SUDHA	9.70	4
KURHADE NEELAM SITARAM MEENA	9.70	5

B.E. SEM- VII

TOPPER LIST FOR DIVISION BE 20_21 ODD		
NAME OF STUDENT	**SGPI**	**RANK**
JUIKAR HRISHIKESH SANDEEP NEETA	**9.96**	1
PATEL PRIYA AMBALAL SHANTI	**9.88**	2
BHAPKAR PRACHI VISHWAS KAMAL	**9.85**	3
SINHA PRERNA RAMKUMAR LEENA	**9.85**	4
SINGH ROSHNI VIDYASAGAR RITA	**9.73**	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

Sagar Dubey		Electronics and Telecommunication Engineering	QualityKiosk Technologies Pvt. Ltd	Automation	3 LPA
Parag Parab		Electronics and Telecommunication Engineering	TCS Digital	Business Process Services	6.5 to 7.5 LPA

Prerna Sinha		Electronics & Telecommunication Engineering	Capgemini	Analyst	3.8 LPA
Kishor Pawase		Electronics & Telecommunication Engineering	Capgemini	Analyst	3.8 LPA

HARSHVARDHAN RAJENDRA BHOITE	Electronics & Communication(E&C)	2020-21	Qspiders Incubation Center	Full Stack Java Programming/Software Testing 2 to 4 LPA

- **Other Achievements**

- **Harshwardhan Bhoite, Secured First position in Battle of Minds held on 25th and 26th of September 2020, an entrepreneurship development initiative of Rotract Club of SIES (Nerul) College .**

Faculty Achievements

STTP and Workshop Attended by Faculty

Name of STTP/FDP/ Workshop	Faculty Name	Dates		Duration
PROGRAMING IN JAVA	VIJAY KAPURE	13/7/20	18/7/20	ONE WEEK
METAMATERIALS AND ITS APLICATIONS	VIJAY KAPURE	27/7/20	31/7/20	ONE WEEK INTERNATIONAL
RECENT TRENDS IN ANTENNAS	VIJAY KAPURE	7/9/20	12/9/20	SIX DAYS
ELECTROMAGNETICS , MICROWAVE,RF AND ANTENNA DESIGNING USING ANSYS HFSS	VIJAY KAPURE	27/7/20	1/8/20	ONE WEEK(STTP-1)
ELECTROMAGNETICS , MICROWAVE,RF AND ANTENNA DESIGNING USING ANSYS HFSS	VIJAY KAPURE	24/8/20	29/8/20	ONE WEEK(STTP-2)
ELECTROMAGNETICS , MICROWAVE,RF AND ANTENNA DESIGNING USING ANSYS HFSS	VIJAY KAPURE	21/9/20	26/9/20	ONE WEEK(STTP-3)
Webinar on "Artificial Intelligence"	Naresh Kumar Joshi	13/07/20	13/07/20	One day
Webinar on " Cyber Security"	Naresh Kumar Joshi	14/07/20	14/07/20	One day
Webinar on Recent trends in autonomous robots	Naresh Kumar Joshi	22/07/20	22/07/20	One day
Webinar on " Quantum Computing "	Naresh Kumar Joshi	16/07/20	16/07/20	One day
Webinar on "LTE and 5G Protocol Stack Testing"	Naresh Kumar Joshi	24/07/20	25/07/20	Two days

Webinar on " Internet of Things"	Naresh Kumar Joshi	19/07/20	19/07/20	One day
webinar on " 3D printing : The key to 4th Industrial Revolution "	Naresh Kumar Joshi	15/07/20	15/07/20	One day
Faculty Orientation Program for the course of “Electronic Instrumentation and Control systems	Sheetal Bhujade	10/07/2020.	10/07/2020.	one day
Online Faculty Orientation Program for the course of " Network Theory (ECC 304)"	Pallavi Kharat	11/7/2020	11/7/2020	one day
Seminar on " AI in healthcare"	Dr. Sheetal Bukkawar	20/8/2020	20/8/2020	one day
Seminar on " AI in healthcare"	Prof. Neha Mahajan	20/8/2020	20/8/2020	one day

EDITOR:

Prof.Sarita Kale