DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION January -June-2020

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The program of Bachelor of Engineering in Electronics and Telecommunication is being conducted in accordance to the course curriculum prescribed by University of Mumbai. Department has been NBA accredited from 2012-2014 and NAAC accredited .The college management has always encouraged the student fraternity by announcing scholarships and cash awards for meritorious students. The department has active IEEE Student chapter. Technical and Co-curricular activities are being conducted under IEEE on regular basis.

The department of EXTC was started in 2002. Right from the inception of the institute, it has progressed rapidly, to be regarded, as one of the premiere departments with excellent infrastructure and dedicated faculty. Department is well equipped with laboratories. The department has highly qualified and competent faculty members who specialize in their areas of expertise, in order to give the students a holistic and pragmatic view of the present scenario of Electronics and Communication industry.

Vision and Mission of EXTC Department

VISION

To be a Premier Department in Electronics & Telecommunications Engineering **MISSION**

- To provide quality education satisfying the requirements of corporate world across diverse field.
- To develop life-long learning skills to cater to the socio-economic needs.
- To strengthen Industry-Institute Interaction to bridge the gap between academic and Industrial requirements.
- To equip students with leadership and entrepreneurial skills

Editors

Dr. Preeti Hemnani

Prof. Vaishali Mangrulkar

Program Educational Outcomes (PEOs)

Graduates will be able to:

- PEO1: Identify, formulate and solve engineering problems in the Industry, complying with ethical standards and societal needs.
- PEO2: Pursue higher studies and professional development courses leading to significant advancement in the field of specialization.
- PEO3: Apply technical concepts to develop applications and design products.
- PEO4: Exhibit leadership and entrepreneurial acumen in career.

Program Specific Outcomes (PSOs)

- PSO1: Achieve eminence in domains like signal processing, VLSI, embedded IoT, RF and microwave.
- PSO2: Become technocrats capable of working in multi-disciplinary fields.

Department Activities

- Organized and conducted orientation program for the Subject "RF Design" semester VIII, in EXTC department on 8/1/2020, for the faculties of Mumbai ,University on behalf of Mumbai University.
- ➢ Women In Engineering (WIE) affinity group inaugurated on 12/2/2020.
- IEEE WIE conducted STEM (Science, Technology, Engineering and Mathematics) activity at Shiravane Vidyalaya, Nerul on 26/2/2020.
- IEEE SIESGST Organized National level technical paper writing competition- WriTech during 20/05/20 to 9/06/20.
- IEEE SIESGST Organized 2 Days National level webinar on CorelDraw and Photoshop- Digital Design Hacks 101 during 18/06/20 to 19/06/20.

Academic/ Technical achievements of students:

- Navin Subbu ,Anuraag Iyengar,Sivasubramanian Venugopalan and Vignesh Iyer from final year participated in VLSI design conference 2020,Bangalore on 6-8 Jan 2020 and secured first runner up cash prize of 20K.
- Tirtha Shetty final year student got most Enterprising Woman award during TML 2020.
- Shrinivas Somal third year student got most Enterprising award during TML 2020
- Harsh Agrawal(TE EXTC) and Aditya Birajdar(TE PPT),IEEE members won the COVID19 poster making competition at MGM CoE held during 29/4/2020 TO 6/5/2020.
- Harsh Agrawal (TE EXTC) and Aditya Birajdar(TE PPT), IEEE members won the Industrial digital poster competition held on 24

March 2020 organized by Team Bothash.

- Cibin Chandrasekhar(TE EXTC) won first position in national level IEEE CUK SB Lets Code coding competition 2020 on 5/6/2020 organized by IEEE student branch of Central University of Karnataka.
- Kavya Rajiv BE EXTC won first position in national level technical article writing competition WriTech on 9/6/2020 organized by IEEE SIESGST.
- Simran Sharma TE EXTC won third position in national level quiz competition on Data communication & networking and Embedded Systems.

Sports achievements of students:

Arunkumar Nadar, Priyadarshan and team won the excelsior inter collegiate volleyball tournament held at KEM college during 1st and 2nd February 2020.

Cultural achievements of students:

Vibha Rawan final year student got Excellence in cultural award during TML 2020.

Faculty achievements :

- Dr.Atul Kemkar got a sanction of Rs.2.94 lakh for the proposal submitted under Agro Tech titled "Solar Powered Onion Dryer using Induction Heating" from Department of Science and Technology in January 2020.
- Prof. Shubhangi Kharche completed her PhD for the topic Performance Analysis of 6LoWPAN Networks.
- Prof. Shubhangi Kharche worked as reviewer for IEEE International conference CSCITA 20 held at SFIT, Mumbai.
- Prof. Biju Balkrishnan, students Sharanya, Alfi Nadar, Narayanmoorthy and Sriram published .paper titled "Design, Analysis, Simulation, And Implementation of 4-D Quadrature FSK Modulation"IEEE Xplore, March 2020.
- Prof. Swati Rane presented paper titled "Adaptive mean filter technique for removal of high density salt and pepper (impulse) noise", in 5th International Conference on Computing in Engineering and Technology, MGMCE, Nanded, on 9-11 Jan, 2020.
- Prof. Vaishali Mangrulkar worked as a reviewer for International Conference on Pervasive Computing 2020 held at Sinhgad college of Engineering, Pune.
- Dr. Preeti Hemnani and Prof. Pranavi Mhatre received Rs.20,000 as Minor Research Grant from UOM for the project titled "Real Time litter detection using ML".

Prof. Sonal Hutke received Rs.20,000 as Minor Research Grant from UOM for project titled"Planar textile antenna for WBAN operating in ISM band.

Student Development Programs:

- Prof. Swati Rane, Prof. Pushkar Sathe, Prof. Shyamla Mathi and Prof. Kintu Patel organized and conducted Internship program on Machine Learning & Image Processing during 15/6/2020 To 27 /6/2020.
- Prof .Vaishali Mangrulkar , Prof.. Pratibha Joshi and Prof. Vishal Gaikwad organized and conducted Internship program on Introduction to Arduino, IoT and Interfacing using Simulator software during 15/6/2020 To 26/6/2020.
- Prof. Sonal Hutke, Prof. Madhuri Kulkarni and Prof. Priyanka Kadam organized and conducted Internship program on C, C++ and Java coding skills during 15/6/2020 To 26/6/2020
- Alumni Interaction 2020 was conducted on 04/1/2020. Five Alumni Mr. Rohan Pillai, Mr. Aman Rajput, Mr. Vishal Raj, Ms. Nivedita Deshpande, Ms. Pooja Venkat interacted with faculties and students.
- Industrial visit at IIT SAMEER was organized on 28/2/2020 for third year students.

Seminars /workshops/Orientation attended by EXTC Department:

- Prof. Vaishali Mangrulkar attended Orientation program of the final year subject "Wireless network" at Fr.Agnel, Vashi on 9/1/2020.
- Prof. Pratibha Joshi attended orientation program of the final year subject " Satellite communication " at ,Vidyalankar institute of Technology,Wadala on 8/1/2020.
- Prof. Sonal Hutke attended orientation program for of the final year subject " Optical Network "held at K.C.College of Engineering, Thane on 6/1/2020.
- Prof. Senthilkumar arranged Industrial visit at SAMEER, Kharghar for Third year and final year students on 6/3/2020.
- Dr. Preeti Hemnani successfully completed FDP on WhatsApp outcome based education during 24/3/2020 to14/4/2020.
- Prof. Shubhangi kharche successfully completed FDP on WhatsApp outcome based education during 24/3/2020 to14/4/2020.
- Prof.Shubhangi Kharche successfully attended twelve weeks NPTEL course on NBA accreditation and Teaching-Learning in Engineering(NATE) with an assignment score of 89%.
- Prof. Shyamala Mathi successfully completed One Week Online Faculty Development Program on Scilab during 4/5/2020 to 9 /5/ 2020.

- Prof. Shyamala Mathi successfully completed FDP on AI for COVID 19 data analysis and deep learning during 27/4/2020 to 1 /5/2020.
 - Prof.D.SenthilKumar successfully completed Workshop on ML & AI Using Covid-19 Virus Data Analysis during 6/5/2020 to 7/5/2020.
- Dr. Preeti Hemnani attended One Week Online Faculty Development Program on Scilab during 11/5/2020 to 15/5/2020
- Dr. Preeti Hemnani attended online Exams by AICTE during 29/4/2020 to 2/5/2020.
- Prof. Biju Balkrishnan attended Two weeks online FDP on "PRAYOG-EXPERIMENTS ON CLICK": USING VIRTUAL LABS Organized by VCET, VASAI in association with College of Engg, Pune during 18/5/2020 to 27/5/2020.
- Prof. Biju Balkrishnan attended one Week FDP on Research and Methodology and Tools by Sandip Institute of Technology Research Centre (SITRC), Nashik from 11/5/2020 to 15/5/2020.
- Prof. Biju Balkrishnan successfully completed nine technical courses in different areas of electronics and telecommunication by Coursera in the month of May 2020.
- Prof. Biju Balkrishnan attended 4 days FDP on Research , Funding Projects and IPR by K C College of E & MS & R, Thane from 7-5-2020 to 10-5-2020.
- Prof.Nita Patil successfully completed FDP on Moodle learning system organized by K.J. Somaiya Institute of Technology ,designed by IIT Bombay during 26/5/2020 to 30/5/2020..
- Prof. D.SenthilKumar successfully completed 7day online workshop on "Core Arduino Programming" organized by KAIZEN FUTURETECH, from 15/5/2020 to 25/5/2020.
- Prof. Sonal Hutke Completed course "The Complete Core Java Course (Java 10, 8) : Learn to Code". by Udemy in june 2020.
- Prof. Sonal Hutke Completed NPTEL Course on "Antennas" in June 2020 by IIT Bombay.
- Prof. Kintu Patel successfully Completed COURSE on Emotional Intelligence by NPTEL in June 2020/.
- Prof. Pratibha Joshi Successfully Completed COURSE on Emotional Intelligence by NPTEL in June 2020.
- Prof.Priyanka Kadam attended FDP on Cyber security and Role of cryptography organized by UMIT SNDT Mumbai.
- Prof Pranavi Mhatre completed internship on "FPGA Design and Verification" From Sandeepani Institute of embedded Systems, Bangalore during 18/05/2020 to 12/06/2020.

Quote from the Editor's Desk:

"All power is with in you ,you can do anything and everything"'. Swami Vivekananda