

# K J SOMAIYA INSTITUTE OF ENGINEERING & INFORMATION TECHNOLOGY

Department of Electronics & Telecommunication Engineering

**ABHIYANTRIKI**

Vol-1 Issue-11

Departmental Newsletter

July-December 2019



## Vision of the Department:-

- To provide excellent academic environment that helps students to develop their technical knowledge and learning skills to become successful engineers.

## Mission of the Department:-

- To achieve the Vision of the department following Mission statements are defined.
- **M1:** To offer required training in Electronics and Telecommunication Engineering to groom students into successful professionals.
- **M2:** To instill the skills that enable students to design and implement the technical solutions.
- **M3:** To inculcate ethical behavior in students.

## Program Educational Objectives (PEOs):-

- **PEO1:** To train learners to analyse and apply the engineering fundamentals to formulate solutions by using appropriate engineering techniques and tools.
- **PEO2:** To make the learners aware of professional practices in Electronics and Telecommunication engineering sector, scientific research and career.
- **PEO3:** To apply the knowledge of Electronics and Telecommunication Engineering to solve societal and environmental problems.
- **PEO4:** To develop the necessary professional skills of learner along with effective oral and written

communication skills.

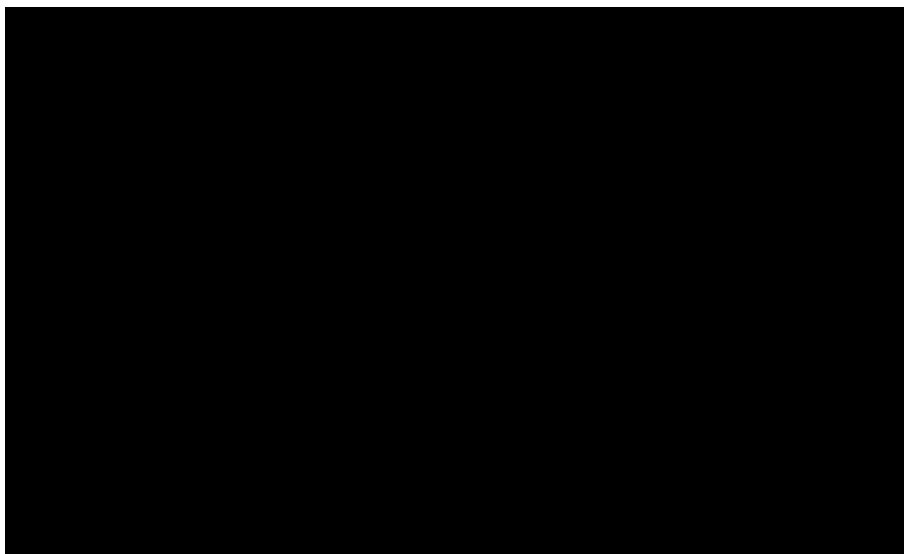
### **Faculty Achievement:-**

- Prof. Swati Shinde submitted minor Research project for the financial year 2018-2019 titled 'Alzheimer's Disease Detection' on 30/08/ 2019.
- Dr. Jayashree Khanapuri submitted minor Research project for the financial year 2018-2019 titled 'Classification of Thorax using Deep Learning' on 30/08/ 2019.
  
- Prof. Rashmi Adatkar and Prof. Rupali Kadu attended one day Faculty development programme at TCS, Thane on 19/08/2019.
  
- Prof. Pranali Hatode and Prof. Sandeep Mishra organized guest lecture in association with IEEE Cell with resource person Mr. Mustafa, TCS Thane, on 'Machine Learning' on 18/09/2019 for TE EXTC students.
- Prof. Pranali Hatode and Prof. Sandeep Mishra organized guest lecture in association with IEEE Cell with resource person Mr. R Lakshminarayanan, TCS Thane, on 'Industry Expectation from Engineering Graduates' on 23/09/2019 for TE EXTC students.
  
- Prof. Pranali Hatode and Prof. Sandeep Mishra organized Faculty development workshop in association with IEEE Cell with resource person Mr. Akhilesh Shrivastav, TCS Thane, on 'IPR' on 19/09/2019 for all faculties.
  
- Prof. Pranali Hatode and Prof. Sandeep Mishra organized Faculty development workshop in association with IEEE Cell with resource persons Mr. Sanjay Kimbahune, Mr. Sujit Shinde & Mr. Karan Bhavsar, TCS Thane, on 'Innovation- Industry Perspective' on 20/09/2019 for all faculties.

- Prof. Sandhya Deshpande selected for the post of Technician 'A' in the Trade of 'Electronics' (Unreserved) at Nehru Science Centre, Mumbai on 16/07/2019.
  
- Prof. Sandhya Deshpande organized visit in association with COEP Cell at 'ISRO mega exhibition' at NSC on 17/09/2019 for FE and BE EXTC students.

#### ISRO mega exhibition at NSC

- Prof. Sandhya Deshpande organized one day workshop in association with COEP Cell on 'Robotics underwater' at NSC on 31/08/2019 for FE and SE students from all branches.



One day workshop on Robotics underwater

- Prof. Sandhya Deshpande organized Guest lecture 'Over the Moon' in association with COEP Cell at NSC on 30/08/2019 for BE EXTC students with resource person Prof. M.N.Vahia.



Guidance with resource person Prof. M.N.Vahia.

- Prof. Sandhya Deshpande organized Skype guest lecture 'cyber security' in association with COEP Cell at NSC on 30/08/2019 for FE and SE students from all branches with resource person Mr. Meny Barzilay (Israeli cyber security expert).

#### Guest lecture on cyber security

- Prof. Sandhya Deshpande successfully participated in All India Rank of 364 out of 2830 colleges in internship day2019.
- Prof. Sandhya Deshpande currently handling the consultancy project 'Image processing on C#' in association with Nehru Science Center(NSC) with BE students Kinjal Jain and Chaitanya Kosambi with prize of Rs.175000 and Rs.150000.
- Prof. Sagar Mhatre attended one week STTP on 'Emerging Trend in Embedded System and DSP Applications' from 01/07/2019-06/07/2019 , organized by Department of EXTC, Vidyavardhini college of Engineering, Vasai with Texas Instruments.

- Prof. Martand Jha organized industrial visit in association with IEI on 03/08/2019 -04/08/2019 at 'Smita Conductors Pvt. Ltd. & R. R. Kabel', Silvassa and 46 students participated for the same.



Students with Prof. Martand Jha at Smita Conductors Pvt. Ltd

- Prof. Martand Jha organized a two day workshop in association with IEI based on 'PCB Designing' on 10/08/2019 and 24/08/2019 and 16 students participated for the same.



Students with Prof. Matand Jha at the end of the workshop

- Prof. Martand Jha organized a seminar in association with IEI based on ‘Resume building and internship training’ on 19/07/2019 and 12 students participated for the same.
- Prof. Martand Jha organized a workshop in association with IEI based on ‘Networking – using CISCO Packet Tracer’ on 27/07/2019 and 36 students participated for the same.
- Prof. Kiran Rathod organized on Faculty development programme on “Recent Trends and Development in Modern Antennas, RF and Microwave System from 01/07/2019-06/07/2019 in association with Entuple Technologies, Bangalore.



Felicitation of Chief Guest (Dr. Girish Kumar) by Dr. Suresh Ukarande (Principal)



Eminent Speaker Dr. Girish Kumar during session with participant

- Prof. Kiran Rathod currently handling the consultancy project “Upper Air Sounding System (UASS)” in association with Databyte systems and solutions and KJSIEIT in the academic year 2018-19.
- Prof. Rupali Satpute organized guest lecture on ‘Error Control System-ARQ and FEC’ with resource person Prof. Biju Balakrishanan, SIES Nerul for TE A and B division students.

#### Guest lecture on ‘Error Control System-ARQ and FEC’

- All faculties from EXTC department attended the Faculty development programme on “Recent Trends and Development in Modern Antennas, RF and Microwave System from 01/07/2019-06/07/2019 in association with Entuple Technologies, Bangalore.
- Prof. Kiran Rathod Published paper in International Journal of Emerging Technologies and Innovative Research (JETIR) (www.JETIR.org) UGC Approved (Journal No: 63975)

titled ‘Design and Fabrication of VHF Yagi-Uda antenna for Durdrishti Ground Station’ in Volume 6 Issue 6 ISSN 2349-5162 June 2019.

- Prof. Kiran Rathod Published paper in International Journal of Emerging Technologies and Innovative Research (JETIR) (www.JETIR.org) UGC Approved (Journal No: 63975) titled ‘Indoor Positioning System’ in Volume 6 Issue 6 ISSN 2349-5162 June 2019.
- Prof. Swati Shinde scored as Elite performer with 69% in ‘Embedded System Design with ARM’.
- Dr. Anamika Singh organized workshop on ‘Latex’ on 19/10/2019 for BE EXTC students.
- Prof. Pranali Hatode organised workshop on ‘Team Building in association with TCS’ with resource persons Ms. Smitha Nair PMO Lead, TCS, Mumbai on 11/11/2019 for all staff.
- Prof. Kiran Rathod organised a guest lecture on ‘Physical Significance of Electromagnetic and its application in Microwave Engineering’ with resource person Prof. Dr. Vinitkumar Dongre HOD EXTC, TCET, Kandivali, Mumbai for BE A and B division students on 11/10/2019.
- Prof. Pradya Kamble organised a guest lecture on ‘Evolution of Mobile Technology: 1G to 4G’ with resource person Mr. Dharmin Mehta , Reliance Jio for BE A and B division students, on 17-10-2019.
- Dr. Sandhya Kadam submitted Project proposal for Minor Research Project grant at the University of Mumbai titled ‘Mobile Application for Deep Learning Based Glaucoma Detection System’.

- Prof. Vricha Chavan submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'RFID based design and implementation of Client-Server system with Peripherals and Wallet System for student centric applications'.
- Prof. Vricha Chavan submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Real time currency counter and recognition system'.
- Prof. Rashmi Adatkar submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Intelligent Voice Assistant'.
- Prof. Tilottama Dhake submitted Project proposal for Minor Research Project grant at University Mumbai titled 'Smart EVM System'.
- Prof. Kiran Rathod submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Design and Fabrication of Antenna System for RF Energy Harvesting'.
- Prof. Kiran Rathod submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'EBG Integrated Low SAR Broadband Textile Antenna for Body Wearable and Health Monitoring Application'.
- Prof. Pradnya Kamble submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Toilet Hygiene System'.
- Prof. Sandeep Mishra submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Study and Design of Fractal Antenna'.
- Prof. Martand Jha submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Study and Analysis of an Antenna for HAM Band'.
- Prof. Rupali Satpute submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Attendance Monitoring System'.
- Prof. Sunil Patil submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Smart Rationing System using RFID and Embedded System'.
- Prof. Pranali Hatode submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Autonomous Vehicle'.
- Prof. Sagar Mhatre submitted Project proposal for Minor Research Project grant at the University of Mumbai titled 'Hardware Implementation of Image Processing Algorithm on FPGA'.
- Dr. Jayashree Khanapuri awarded as best teacher on 12/10/2019 for academic year 2018-19.
- Prof. Amit Kukreja awarded best teacher on 12/10/2019 for academic year 2018-19.
- Prof. Kiran Rathod awarded as best teacher on 12/10/2019 for academic year 2018-19.
- Ms. Sandhya Deshpande received a letter of appreciation from Nehru Science Centre, Mumbai.
- Dr. Anamika Singh published paper titled 'Coupling sensitivity and radiation pattern of a vertical grating coupler' in Journal of Applied Optics , Vol. 58, Issue 27, pp. 7280-

7284 ISSN:1559-128X (p)ISSN:2155-3165 (o) in September 2019.

- Dr. Jayashree Khanapuri awarded as Elite+Gold Topper in NPTEL Online Certification in ‘Digital Image Processing’ organized by IIT, Kharagpur in October 2019.
- Dr. Anamika Singh awarded as Elite+Silver Topper in NPTEL Online Certification in ‘Fiber-Optic Communication Systems and Techniques’ organized by IIT, Kharagpur in October 2019.
- Prof. Swati Shinde successfully completed NPTEL Online Certification in ‘Fiber-Optic Communication Systems and Techniques’ organized by IIT, Kharagpur in October 2019.
- Prof. Rupali Satpute successfully completed SWAYAM MOOC Course Certification in ‘Computer Fundamentals Computer Networks’ organized by Ministry of HRD India in October 2019.
- Prof. Swati Shinde submitted minor research project titled ‘Alzheimer’s Disease Detection’ in University of Mumbai.
- Dr. Jayashree Khanapuri submitted minor research project titled ‘Classification of Thorax using Deep Learning’ in University of Mumbai.
- Dr. Jayashree Khanapuri and Prof. Swati Shinde organised workshop on ‘Design and Development of Virtual Laboratory Experiments’ by Nodal Center VLAB, with resource person Mrs. Anita Diwakar, IIT Powai(Mumbai) on 04/12/2019 and 06/12/2019 and 32 faculties attended the same.

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Vlab Session with Mrs. Anita Diwakar

- Prof. Sandeep Mishra, Dr. Jayashree Khanapuri, Dr. Sandhya Kadam organized internship programme on ‘Python’ with resource person Mr. Santosh Jadhav(Technical Assistant), Dr. Sandhya Kadam(Faculty), Mr. Chaitany Kasambe, Mr. Pankaj Patro, Mr. Akshay patil, Mr. Harsh Malde(all are students of KJSIEIT) from 16/12/2019 to 19/12/2019 and 52 students attended the same.



Session with Mr. Santosh Jadhav



- Prof.kiran Rathod organised internship programme on ‘Hands on session on modern antennas, RF and microwave system using Ansoft HFSS’ in association with Entuple Technologies Pvt.Ltd, with resource person Mr. Vishal Khardi and Prof. Kiran Rathod and Mr.Akshay Jain, Mr.Pranay Chavan, Mr.Pratik Maradia, Ms. Kinjal Jain(all are students of KJSIEIT) from 02/12/2019 to 06/12/2019 and 39 students attended the same.
- Prof.Sagar Mhatre organized STTP on ‘Analog and Digital VLSI system design using CADENCE’ in association with Entuple Technologies Pvt.Ltd, with resource person Mr. Navin Sankar, Application Engineer, Entuple Technologies Pvt. Ltd, from 02/12/2019 to 03/12/2019 and 01 student with 14 faculties attended the same.



Session with Mr.Navin Sankar

- Prof.Sandeep Mishra organised one week AICTE-ISTE and University of Mumbai (UoM) Approved National Faculty Development Program (FDP) on ‘Machine Learning for Image, Audio, Video Analysis and IoT’ in association with EduxLabs (Esoir Business Solution) with NSS IIT Roorkee & The Institution of Engineering and Technology (IET)

Mumbai LN from 09/12/2019 to 14/12/2019 and 49 faculty participated for the same.



All participants with Mr.Amit Mishra

- Prof. Sandhya Deshpande organised internship programme in association with COEP Cell at CRBTC, Railways, and Mumbai from 02/12/19 to 07/12/19 and 09/12/19 to 14/12/19 and 15 students successfully completed the same.
- Prof. Sandhya Deshpande organized internship programme in association with COEP Cell at BSNL, Mumbai from 09/12/19 to 14/12/19 and 09 students successfully completed the same.
- Prof. Sandhya Deshpande organised internship programme in association with COEP Cell at RCF, Mumbai from 02/12/19 to 07/12/19 and 04 students successfully completed the same.

### **Students’ Achievements:-**

- Ms. Preksha Hatolkar awarded as star student(Girl) on 09/09/2019 for higher and technical education for the academic year 2018-19.
- Mr. Keval Dave selected in Deep Blue Season 5 competition organized by Mastek India Pvt. Ltd. on 18/10/2019.
- 15 students from EXTC department selected in Robotics Competition 2019-20 on 31/10/2019.
- Ms.Harshada Gaonkar and Ms. Mrinali Amin selected as a Regional Level Runner up organized by NICE 2019, IET, and Mumbai LN.
- Ms.Nisha Rathod and Ms. Dimpal Patil selected as a Mumbai Region Level Finalist organized by Anveshana 2020, Agastya International Foundation at Nehru Science Centre, Worli, and Mumbai on 21/10/2019.
- 04 students successfully completed an internship at Tata Power,Shahad(Thane) from 16/12/19 to 21/12/19.
- Shrushti Khatau from BE EXTC successfully completed internship at All India Radio,Borivali,and Mumbai from 16/12/19 to 21/12/19.

