



Innovation & Leadership

e Varta

Miles to go

A Biannual Newsletter by Department of Electronics and Telecommunication

Institute Vision: To be a premier academic institution that fosters diversity, value-added education and research, leading to sustainable innovations and transforming learners into leaders.

Department Vision: To nurture young minds and provide them with a strong foundation through academic excellence & skill-based knowledge, transforming them into efficient professionals who can take on challenges in the fields of Electronics and Telecommunication Engineering for a sustainable technological development.

Department Mission:

- ❖ To educate students on domain knowledge in Electronics and Telecommunication Engineering using adaptive teaching-learning practices.
- ❖ To create a conducive learning environment that offers value-added education, enabling students to be career ready.
- ❖ To cultivate research & innovation as a bent of mind among students by industry-academia interaction.
- ❖ To enrich student with self-learning ability to sustain with technological changes.



Department of Electronics and Telecommunication
 Hope Foundation's
 International Institute of Information Technology
 Hinjawadi, Pune (MH) - 411057

❖ Students achievements

Mr. Adarsh Agarwal was first runner Up at HSBC Sales and Trading (S&T) Competition, the 11th Asia Investment & Banking Conference 2019 (AIBC), Hong Kong.

❖ Faculty/Staff achievements

- Dr. Varsha Degaonkar was Awarded PhD by Savitribai Phule Pune University on August 2019.
- Dr. Risil Chhatrala was Reviewer in the "International Conference on Innovating Technology for Humanity" (IEEE PuneCon 2019), held on 18th to 20th December 2019 jointly organized by School of Electronics and Communication, MIT-WPU, Department of Electronics and Telecommunication, MITCOE and IEEE Pune Section.

❖ Industry Sponsored Project

Our 12 students got technical sponsorship for their BE projects as a academia industry connect.

- Nikhil Kothari, Janhavi Patil, Shubham Agarwal received technical sponsorship for projects titled "Characteristics of total Electron content using IGS stations" from P P Chhabria Research Center, Pune.
- Naman Gupta, Aniket Patil, Shubham Patil received technical sponsorship for BE projects titled "Study of ionosphere turbulence during Geomagnetic storms and validation of Global Ionosphere models" from P P Chhabria Research Center, Pune.
- Aditi Shelke, Adarsh Agarwal, Pragati Kendre received technical sponsorship for BE projects titled "Blockchain Based Transaction Record Management" from Klaimpify Pvt. Limited under supervision of Mr. Anil Nakoti, Director.
- Samyak Doshi, Aditya Lolge, Dishank Gaglani received technical sponsorship for BE projects titled "Data Centre for E-Commerce Data Acquisition" from Go Online under supervision of Mahash Masalkar (IT Lead) Prashant Sahay (Operation Lead).

❖ Internships

During vacation/leave period students undergo internship to understand industry trends, new technology, working culture etc. Our 11 students had done internship at Reliance Jio Mumbai, Tata Communication's, Tata Motors Ltd, ISRO RRSC Nagpur and Phoenix Microsystems.

❖ Memorandum of Understanding (MoU) & Activities

Department has signed MoU with Wisely Wise for 5 years duration. WiselyWise Pvt. Ltd. is a Global EdTech committed to

solving the twin challenges of employment & employability by enabling students' transformation through training programs.

Under active MoUs, department students are taking benefits of training programs, sponsorship & internship, consultancy task etc

❖ Publications by Faculty/Staff/Students

- Mr. Ganesh Chavan Dr. V Rajesh Chowdhary Prof. S S Badhe, "Site Suitability Analysis of Solar Farm Using AHP Technique", International Journal of Advance Engineering and Research Development, e-ISSN (O) – 2348-4470 p-ISSN (P) – 2348-6406, Nov 2019
- Ashvini Kulkarni Augusta Sophy Beulet P, "Statistical Analysis of Accelerometer, Gyroscope with State Estimation", International Journal of Engineering and Advanced Technology, ISSN 2249-8958, Dec 2019
- Ashok Shinde "Modified meta-heuristic-oriented compressed sensing reconstruction algorithm for bio-signals", International Journal of Wavelets, Multiresolution and Information Processing(World Scientific Publishing Co Pvt Ltd), 2019 ISSN (print): 0219-6913 | ISSN (online): 1793-690X, September 2019

❖ GMRT Industrial visit

The Giant Metre wave Radio Telescope (GMRT), located near at Khodad Pune in India, is an array of thirty fully steerable parabolic radio telescopes of 45 metre diameter, observing at metre wavelengths. SE students had visited GMRT on 28 June, 2019. This visit has exposed all students with industry work environment, culture and latest technological development as required by industry.



❖ Basic Electronics session series – ISETS

E&TC Student Association ISETS organized sessions on "basic electronics" on 22nd & 27th July, 29th August, 18th September, 2019 for SE students. The objective of the workshop was to understand basic operation, identification,

specifications of electronic components like Resistors, Capacitors, Inductors, Diodes, transistor, op-amps etc and apply them for circuit design.



❖ IoT Based Home automation by ISETS

E&TC Student Association ISETS organized workshop on "IoT based home automation" on 25th July, 2019 for TE students by Mr. Prateek Singh (TE student). The objective of the workshop was to get a basic knowledge of IoT Platform and Setup IoT connectivity using a remote desktop. Students enthusiastically participated. A hand on session was delivered.



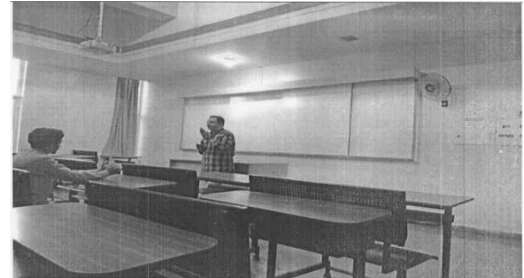
❖ Expert lecture on Mechatronics: An integrated approach

Mr. Yashodhan Mandke, Lead R & D Niruha Systems Pvt Ltd demonstrated and detailed about automated system including hardware and software on 27th July 2019. The session was focused on need of automation in manufacturing and role of E&TC engineer.



❖ Expert lecture on Embedded Systems Design and Development

Mr. Yashodhan Mandke, Lead R & D Niruha Systems Pvt Ltd delivered expert session on embedded system, its need and real time applications on 27th July 2019. With demonstration, the expert had triggered students for developing real time application using sensor modules. It was conducted for TE students to identify/ search problem statements for mini project.



❖ Expert lecture on Key Aspects of Artificial Intelligence from industry perspective

BE students attended expert session on 31st July 2019 on Key Aspects of Artificial Intelligence from industry perspective. The session was aligned with latest development in AI with some case studies. The industry expert personnel was Ms. Abha Barve, Lead Data Scientists, Nitor Infotech Pvt Ltd, Pune.



❖ Augmentation course "Arduino"

Arduino is open-source electronic prototyping platform enabling users to create interactive electronic objects. A series of lecture from 23rd July to 28th September 2019 by Prof. Ashvini Kulkarni and Dr. Varsha Degaonkar were delivered for SE students which set project development platform.



❖ **Expert Lecture on Recent trends in Factory Automation**

Mr. Santosh Kulkarni, Engineer Mitsubishi Electric Pvt Ltd explored various opportunities in factory automation to all students of department on 26th August 2019. A Mitsubishi Electric Cup 2020, national level project competition with factory automation theme was also discussed.



❖ **Value added course on “Open source Web GIS platform”**

To understand basic of geospatial web application for data collection, uploading and visualization using open source geo informatics (GIS) software, one day course was scheduled for TE and BE students on 14th September 2019. The speaker Prof. Venkatesh Raghavan is working as a Professor of Geoinformatics at the Graduate School for Creative Cities, Osaka City University, Japan.

❖ **Vocational Briefing – ISETS**

E&TC Student Association (ISETS) organized a workshop on Vocational Briefing to help students choose exciting careers post engineering and make them placement ready. Starting from LinkedIn profiles, CV writing, startups, building teams everything was discussed by the students for the students on 29th August 2019.



❖ **NPSF C-DAC Industrial visit**

Center for Development of Advanced Computing (C-DAC), has developed and supplied a range of high performance parallel computers, known as the PARAM series of supercomputers as a result of its pioneering developments. SE and TE students visited National PARAM Supercomputing Facility, CDAC Pune on 6th September, 2019

❖ **Poster Making Competition-Eco Friendly Ganpati by ISETS**

E&TC Student Association (ISETS) had organized Poster Making Competition based on the theme eco friendly Ganpati on 30th August 2019 on occasion of Ganpati festival under its Social Club. The competition focused on highlighting ways to prevent water pollution and conserve natural resources. Out of 40 students participated; Mr. Himanshu Tekade was awarded as winner by Principal Ma’am Dr. Vaishali Patil.



❖ **Industry visit to IUCAA, SPPU, Pune**

The Inter-University Centre for Astronomy and Astrophysics (IUCAA) is an autonomous institution set up by the University Grants Commission (UGC) of India to promote the nucleation and growth of active groups in astronomy and

astrophysics at Indian universities. SE and TE students have visited Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune on 6th September, 2019. Prof. Bhagyshri Thorat and Prof. Ankita Agarwal accompanied students during industry visit.



❖ Session on IBM Mainframe Technology by IEEE student branch

IEEE student branch and computer science department had organized guest lecture for TE students of all branches about IBM mainframe server, high performance computing and its application like JCL, COBOL, VSAM and CICS. The speaker Mr. Girish More, z/OS Application Architect and Enterprise Architect, IBM had given glimpse on how to submit jobs and tracks the a bends.



❖ Add on course on “Micro-python Programming”

Hands on training session on micro python was organized for SE and TE students from 9th to 13th October 2019 by Mr. Neeraj Magnani, Founder, FountLab Solution's Pvt Ltd, Pune. The session helped in development of problem solving ability.



❖ Expert lecture on 8051 Microcontroller: Demo on Programming & Interfacing using KEIL

A guest lecture for the subject of Digital Electronics was organized for SE students on 9th October 2019. The demonstration session conducted by expert enhanced understanding of 8051 microcontroller use for various applications by Mr. Mohd. Salman Sadque, embedded developer, FountLab, Pune.



❖ IEEE Xtreme – 4 Hours Programming Contest

IEEE Xtreme is a global challenge where an IEEE student member in a team has to compete in a 24 Hr time span against each other to solve set of programming problems. Four IEEE students members, Nihil othari, Mohnesh Sancheti, Mayank Pathak and Shrushti Jgtap participated in this competition and coded for 24 hrs on 19th October 2019.

❖ IEEE Membership drive

An awareness camp was scheduled on 24th December 2019 for FE and SE students. The coordinators went to all classes to share information about IEEE, IEEE student chapter, benefits of IEEE membership, funds, awards and industry exposure.