

e Varta

Miles to go

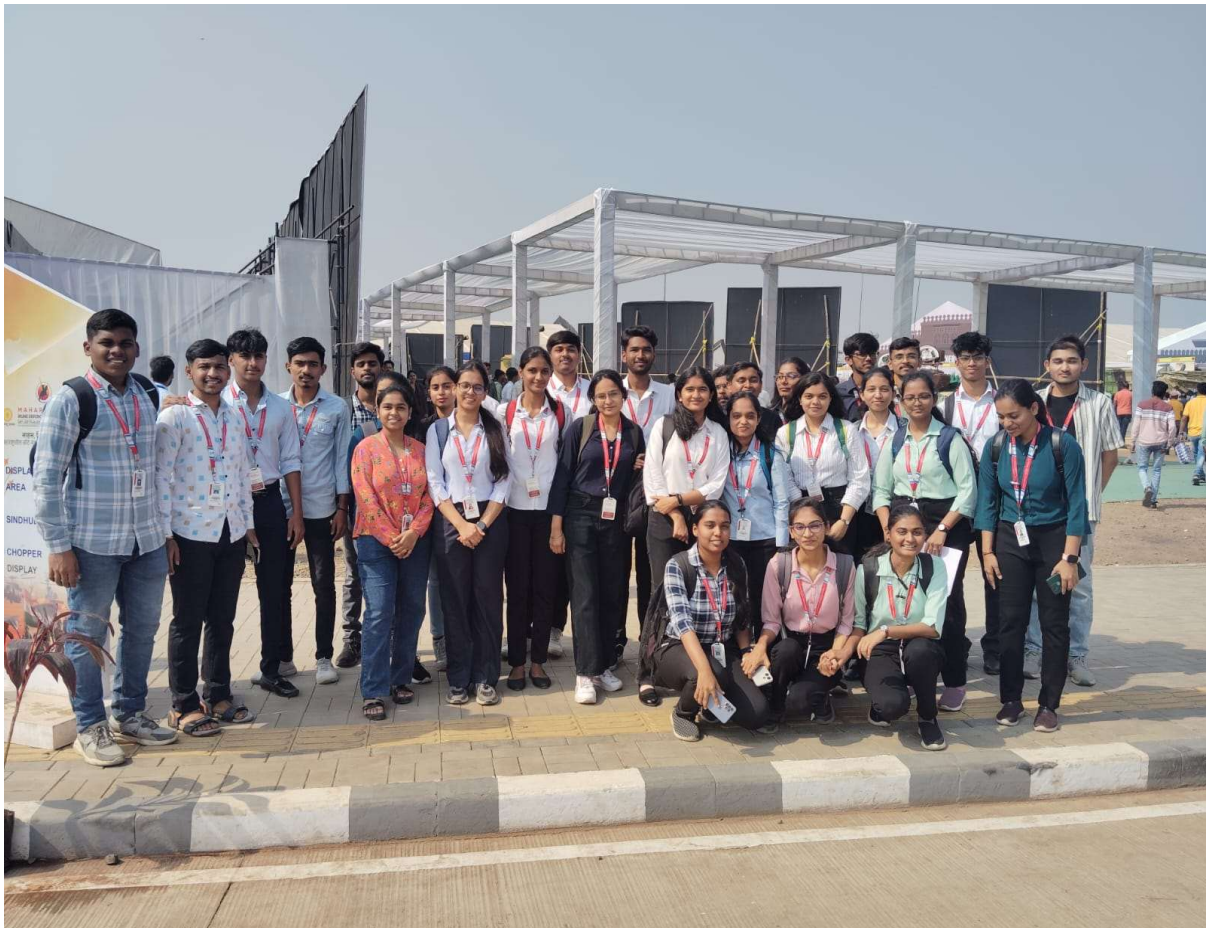
A Biannual Newsletter by Department of Electronics and Telecommunication

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(I²IT)
Hinjawadi, Pune (MH) - 411057

❖ Students Achievements

- Outstanding Achievement by **POVY Startup team** comprising of **Palak Oza, Om Wagh, Vedangee Diwate and Yash Chavan** for getting selected for **Startup MahaKumbh Bharat Innovates** contest
- **Alex Virendra Sakha and Noor Ansari (SE-23-24)** secured **1st** position in **Sinhgad Techtonic 2024-National level Techfest** Event entitled **Digi Logic (Logic Maker)** competition
- **Vedant Gosavi and Girish Koli (SE-23-24)** secured **2st** position in **Sinhgad Techtonic 2024-National level Techfest** Event entitled **Digi Logic (Logic Maker)** competition
- **Riddhi Ravindra Apar (SE-23-24)** received **Black Belt Certificate** from **UNIVERSAL SHOTOKAN KARATE DO-ASSOCIATION** approved by **Karate Association of India (KIA)** Recognised by- **World Karate Federation Ministry of Sports & Youth Affairs Govt. Of India**
- **Shivangi Jadhao** of **BE- 2023-24** cleared First Stage of **Government-Indian Air Force** Examination, **AFCAT 2024**
- **Harsh Songire (TE-23-24)** cleared **GATE** exam with flying colors
- **Rishab Kar Chaudhuri (BE- 2023-24)** secured admission for **MBA Business Analytics and MBA Digital Transformation** in **NMIMS, Mumbai**
- **Vikram Sawant (BE-22-23)** got selected for **Smt. Shanti Devi Bhojraj Menda Awards** for **Most Improved Student** of **AY-22-23**
- **Sarthak Gupta (BE- 2023-24)** got selected for **Mr. Vashi Purswami Award for Overall Academic Achievement** of **AY-23-24**

❖ University Result

ESTC Department highly Acknowledge and Congratulate students for their Incredible Success!

BE – 85.1% of All Clear Students with 36.4% in Distinction and 37.8% in First Class

BE (2023-24) Toppers

Rank	Name of the topper students	SGPA	Class
1	BHURE RUPESH DATTA	9.50	

2	SARTHAK GUPTA	9.25	First Class with Distinction
3	NADARGE SAKSHI ANIL	9.15	
4	MRUNMAI KULKARNI	9.05	
5	KHOT SHRISHAIL SANJAY	8.95	
6	KHAMGAL DHANASHREE GORAKHNATH	8.70	
7	ARGULWAR AJAY MANOJ	8.65	
8	THAKARE RUPESH VIJAY	8.45	
9	SHIVANGI SANTOSH JADHAO	8.43	
10	GHATOL AMIT SANJAY	8.40	

TE – 57.7% of All Clear Students with 24% in Distinction and 21% in First Class--71

TE (2023-24) Toppers

Rank	Name of the topper students	SGPA	Class
1	BHOYAR GOURI SANDEEP	9.10	Distinction
2	SAMRUDDHI DHANANJAY BHADANE	8.95	
3	GUNDAL PARAG BHIMRAJ	8.86	
4	RASAL ASHWINI RAJARAM	8.67	
5	BAFANA KHUSHI ABHAY	8.33	
	BASWADE ANIKET AMOL		
7	RASAL PALLAVI SAMPAT	8.29	
8	GAHIWAD DARSHAN KISHOR	8.24	
	HALKUNDE PRATIK SANTU		
10	JATAL ADITI DIGAMBAR	8.19	

SE – 58.3% of All Clear Students with 30.5% in Distinction and 18% in First Class

SE (2023-24) Toppers

Rank	Name of the topper students	SGPA	Class
1	SHINDE VAIBHAVI RAOSAHEB	9.14	Distinction
2	ANSARI MOHD NOOR ALAM MOHAMMED HABIBUR RAHMAN	9.09	
3	VARALE SHRUTI YUVRAJ	9	
4	BOBADE TANMAY GAJANAN	8.82	
5	PATIL DIKSHA GOPAL	8.73	
6	ALEX VIRENDRA SAKHA	8.64	
7	ATHARVA VISHWAS DALVI	8.59	
8	JAURKAR NARAYANI MAHESH	8.55	
	KULKARNI ATHARV SANTOSH		
	SOLANKEY KRISHNA MILIND		
	VERMA SHRISTI KUMARI		

❖ Faculty/Staff Achievements

We sincerely thank Management and Principal for encouraging and extending support for Faculty/Staff Achievements

- **Dr. S. M. M. Naidu** was invited by **KL University**, deemed to be University on 06/11/23 as External Examiner for the thesis titled "Securing IoT Networks by Evaluating their Performance with Machine Learning Approaches for Network Intrusion Detection" of a Ph.D. degree in Computer Science and Engineering
- **Dr. S. M. M. Naidu** was invited by **SRM University, Chennai** on 29.01.24 as External Examiner to conduct Oral Examination for the thesis submitted for **Ph.D. degree**
- **Dr. S. M. M. Naidu** was invited as a keynote speaker at **International Conference on Futuristic Advancements in Intelligent Information Processing, Communication and Security (ICFAIIPCS-2024)** on 21st and 22nd March 2024 by Department of IoT, KLEF (Deemed to be University), Andhra Pradesh.
- **Dr. S. M. M. Naidu** conducted the viva-voce Examination for Research Scholar, DESAI NEELA MEGHA SHYAM, Registered Number 193030154, Department of CSE for the Ph.D. thesis entitled "Efficient Intrusion Detection to minimize the Packet dropping Nodes from Communication path in Infrastructure-less Networks" @KL University, Vijayawada
- **Dr. V. Rajesh Chowdhary** was invited as Journal Reviewer or Editorial board member for **Geographia Technica** - an International Journal for the progress of Scientific Geography, Romania organized by **Geographia Technica**, Romania
- **Dr. V. Rajesh Chowdhary** was invited as Journal Reviewer or Editorial board member for Journal Reviewer of International Journal of Geoinformatics-IJG, Thailand organized by Geoinformatics International Co., Ltd Thailand
- **Dr. V. Rajesh Chowdhary** received Certificate of Appreciation as a reviewer for the **International Conference on Emerging Trends in Microelectronics, Communication and Intelligent Systems (ETMCIS 2024)** organized by MIT Academy of Engineering, Alandi (D), Pune
- **Dr. Risil Chhatrala** received Certificate of Appreciation as a reviewer for the International Conference on Emerging Trends in Microelectronics, Communication and Intelligent Systems (ETMCIS 2024) organized by MIT Academy of Engineering, Alandi (D), Pune
- **Dr. Varsha Degaonkar** received Certificate of Appreciation as a session chair in **International Conference on Gender Equality & Women Empowerment 2024** organized by Department of Electronics & Telecommunication Engineering, PVGCOET & GKPIDM in association with Department of Education & Extension Savitribai Phule Pune University, held on 8th and 9th March 2024.
- **Dr. Varsha Degaonkar** received Certificate of Appreciation as a reviewer for **IEEE ICECCC 2024** organized by Department of Electronics and Communications Engineering, CMR Institute of Technology, Bengaluru on 2nd and 3rd May 2024.
- **Prof. Anjali Jagtap** received Certificate of Appreciation for coordinating this training program **NPTEL- Soft Skills Training Program** from 30 January, 2024 to 05 February, 2024.

❖ Consultancy

Dr. V. Rajesh Chowdhary, Head-Research and Development and faculty member of E&TC Department singlehandedly drives the Research and Development activities of our Institute.

Following is the list of Completed and On-Going Consultancy Projects

- Design and Development of Asset Information Management System funded by Hofincons International Pvt. Ltd, India for the duration March 2023 onwards with budget of Rs. 75,00,000 and amount received in current academic year Rs. 56,64,000
- Design and Development of Unified Platform for Real Time Monitoring of IoT Devices funded by Fountlab Pvt. Ltd, for the duration June 2023- March 2024 onwards with budget of Rs. 11,21,000 and amount received in current academic year Rs. 11,21,000
- Design and Development of e-Learning and Assessment Platform funded by Baithak Foundation, for the duration June 2023 to November 2023 with budget of Rs. 236,000 and amount received in current academic year Rs. 2,36,000
- Development of "Project Management Information System (PMIS)" funded by Asian Disaster Preparedness Center (ADPC), Thailand under Climate Adaptation and Resilience (CARE) for South Asia Project supported by World Bank for the duration June 2021 to October 2023 with budget of Rs. 1,00,80,011 and amount received in current academic year Rs 6,19,302
- Design and Development of Billing Consolidation System funded by GINKGO SOFT COMPANY LIMITED for the duration July 2022 to October 2023 with budget of Rs. 48,43,889 and amount received in current academic year Rs. 30,49,262

❖ Publications by Students/Faculty

We sincerely thank Management and Principal for encouraging and motivating Students/Faculty for Publication and Research work

- **Dr. S. M. M. Naidu, A. Agarwal, S. M. Shanbhag, D. Nilange, A. Puranik, Y. A. Chavan**, published paper "Instrumentation Electrode Configuration Signal Processing and Applications of Brain Computer Interfacing: A Review" in the Journal-The Ciência & Engenharia - Science & Engineering Journal, Publisher-Federal University of Uberlândia – UFU, 2023/5
- **Dr. S. M. M. Naidu, Vedant Shinde, Varun Kulkarni, Akanksha Wadekar, Y. A. Chavan**, published paper "Speech-based Emotion Recognition Methodologies", in the Journal-The Ciência & Engenharia - Science & Engineering Journal, Publisher-Federal University of Uberlândia – UFU, 2023/5
- **Dr. S. M. M. Naidu, Sadanand Jori, Sakshi Kshirsagar, Samiksha Sarnaik**, published paper "Energy Monitoring System for Agri and Aquatic Field", in the Journal-Journal of Survey in Fisheries Sciences, ISSN: 2368-7487, 2023/4/28
- **Dr. S. M. M. Naidu, Y. A. Chavan, MR Pillai, VM Diwate, PS Oza, D. N. Wagh**, published paper "Real time monitoring of Temp and Humidity in Agriculture automation" in the Journal- Journal of Survey in Fisheries Sciences, ISSN: 2368-7487, 2023/4/7
- **Dr. S. M. M. Naidu, Y. A. Chavan, M. R. Pillai, V. M. Diwate, P. S. Oza, D. N. Wagh**, published paper "Detection of Depression and Anxiety through Speech, Voice, and Sentiment Analysis" in the Journal-The Ciência & Engenharia - Science & Engineering Journal, Publisher-Federal University of Uberlândia – UFU, 2023/5
- **Dr. S. M. M. Naidu, V. M. Diwate, D. N. Wagh, M. P. Kulkarni, S. K. Maharaj, Y. A. Chavan, P. S. Oza**, published paper "Predictive Analytics for Re-Hospitalization and Disease Prediction", in the Journal-The Ciência & Engenharia - Science & Engineering Journal, Publisher-Federal University of Uberlândia – UFU, 2023/4

- **Dr. S. M. M. Naidu, Y. A. Chavan**, published paper, "ECG Enhancement Using Empirical Mode Decomposition", in the Journal- Acta Biomedica, Publisher- Mattioli1885 Journals, 2023
- **Dr. S. M. M. Naidu, Y. A. Chavan, V. M. Diwate, P. S. Oza, D. N. Wagh, M. R. Pillai**, published paper "Predicting Movie Review Sentiment: A Comparative Study of Classification Algorithms", 2023
- **Dr. S. M. M. Naidu, Y. A. Chavan, P. S. Oza, M. R. Pillai, V. M. Diwate, D. N. Wagh**, published paper "Fetal Heart Rate Detection in Multichannel ECG Signals Recorded from Mother's Abdomen", Publication date—2023
- **Dr. S. M. M. Naidu V. M. Diwate, D. N. Wagh, Y. A. Chavan, P. S. Oza, M. P. Kulkarni, S. K. Maharaj, S.R. Bhamre**, published paper, "Pattern Identification in Sleep Apnea", 2023
- **Menon Vaidehi Raghava, Sanjay Mohan Johri, Rama Gautam, Mohd Faisal, Risil Chhatrala**, published paper, "Impact of Social media on the Transformation in English Language Usage among People from Vernacular Milieu", in the Journal- INTERNATIONAL CENTER FOR RESEARCH AND RESOURCES DEVELOPMENT, ISSN Number: 2773-5958, 2023
- **Prof. Anjali A. Jagtap** published paper "Exploring the Effects of Land Use/Land Cover (LULC) Modifications and Land Surface Temperature (LST) in Pune, Maharashtra with Anticipated LULC for 2030" in Scopus Journal, International Journal of Geoinformatics- ISBN number -2673-0014 (Online) 1686-6576 (Printed)
- **Dr. Risil R Chhatrala, Dr. Varsha Degaonkar and Prof. Anjali A. Jagtap** published paper "Logistic Route Optimization based on Geographic Information System (GIS)", in the journal Indian Journal of Technical Education, ISBN number-- 0971-3034
- **Prof. Shweta Jain** published paper "SEMANTIC SEGMENTATION IN MEDICAL IMAGE ANALYSIS WITH CONVOLUTIONAL NEURAL NETWORKS" in the National UGC carelist Journal, ICTACT Journal on Image and Video Processing, An International Publication of ICT Academy, ISBN number—0976-9102
- **Prof. Prashant Ahire**, published paper "Object Detection for Simulating Vehicle Driving using CARLA Simulator" in 2nd International Conference on Innovative Trends in Engineering and Technology @K J College of Engineering & Management, Pune
- **Dr. Varsha Degaonkar**, published paper "Time Series Analysis of Urban Expansion Using Land-Use and Land-Cover Change Detection of LANDSAT Imagery for Pune District of Maharashtra" in 12th International Conference on Advanced Computing (ICoAC - 2023) @IEEE
- **Dr. Varsha Degaonkar and Prof. Anjali A. Jagtap** published paper "Flood risk mapping using GIS of Mumbai District, India", in 3rd International Conference on Innovative Sustainable Computational Technologies, 2023" (CISCT2023) @IEEE
- **Dr. Varsha Degaonkar and Prof. Anjali A. Jagtap**, published paper "Flood Mapping of Mumbai Using Sentinel Datasets", 3rd International Conference on Innovative Sustainable Computational Technologies, 2023" (CISCT2023) @IEEE

❖ **Property Rights- IPR (Copyright, Trademarks, Patents, Geographical indications, Plant varieties, Industrial Designs and Semiconductor Integrated Circuit Layout Designs)**

We sincerely thank Management and Principal for inspiring and motivating Students/Faculty for IPR work and Heartiest Congratulations to the following Faculty members for securing IPR

- **Prof. Sujata Sachin Virulkar, Dr. Risil Chhatrala, Prof. Anjali Jagtap** along with SE students **GOSAVI VEDANT MANGESH, JADHAV ASMITA KIRAN and JAURKAR NARAYANI MAHESH** secured the copyright for the title INFORMATION EXTRACTION FROM DOCUMENT on 14/05/2024 with IPR Number - L-147748/2024

❖ Alumni Interaction

Department always connects with Alumni to guide our current students through their experience.

We thank our Alumni for extending their support for the overall development of our students

- **Mr. Abhishek Kulkarni** (Batch of 2022) from **BigZero Technology, Pune** addressed students on **Career Development and Opportunities** on **15 Feb. 2024 - 11:00am - 12:00pm**

❖ Add on Course

Department has special focus on academic enrichment of students and for this additional Add-On Courses on specific areas by the domain experts has been arranged to fill the curriculum gap.

- **Mr. Amol Satpute**, Sr. Data scientist form Globant India Pvt. Ltd. Pune (MH) conducted a course for TE(ENTC) students on **Image Processing with Machine Learning** in 2 Phases, 24-25th Feb 24 - Phase I and 11th March 24 - Phase II
- **Ms. Rekha Pawar**, Instructor from EduPlusNow, Pune, conducted a course for SE(ENTC) on **PCB designing** in 2 Phases, 1st-3rd March-Phase I and 11th March 24 - Phase II
- **Mr. Ravi Prakash Singh**, BU Head, Cloud Inspect Lab, Pune, conducted a 16 hrs. value added course for TE and BE (ENTC) students on **Automotive Product Planning and Development** on 29th Feb-1st March 24 for

❖ Expert Lectures

In all semester students are upraised on state of art skills by organizing Expert Lectures by renowned dignitaries from industry

- **Mr. Dinanath Kholkar**, Independent Advisor, Former SVP TCS, Chair IT/ITES Committee, MCCIA conducted an Expert session **"Digital India Journey and indiastack.global - World-Class Digital Public Infrastructure (DPI)"** on 3/04/24 @ Mohini Chhabria Convention Centre, IZIT
- **Mr. Gauravkumar Raut**, JTO,ZTTC,BSNL,Pune conducted an Expert session for BE(ENTC) students entitled as **"Artificial Intelligence in Telecommunication"** on 3/04/24
- **Mr. Satish Thakare**, Chief Technology Officer (CTO), Sciencetech Technology Pvt.Ltd,Pune, conducted an Expert session for SE,TE,BE(ENTC) students entitled as **"VLSI, Embedded and IoT Product Development"** on 4/04/24
- **Mr. Prashant Gupta**, Senior Security Engineer, Veradigm conducted an Expert session on **"Cybersecurity in Network Security"** on 10/04/24 @2:30 PM, Venue: A 301
- **Mr. Chetan Paulzade**, Data Science Manager and **Mr Kushal Edwankar**, Product Manager @NICE conducted an Expert session on **OPEN HOUSE -GENERATIVE AI** on 15/04/24 from 11am- 1pm Venue: Mohini Chhabria Convention Centre, IZIT

❖ Industrial Visit

To bring awareness about corporate practices and to expose students to real industrial challenges, Industry Visits are planned for all classes.

We thank the industry partners for facilitating us for Industrial visits.

- SE and TE students (ENTC) visited **Maharashtra Defence MSME Expo @Pune International Exhibition and Convention Centre (PIECC)-Moshion 26/02/24**
- BE students visited **outstation Industry Visit @Hyderabad BHEL**

❖ Sponsored Final Year Projects

Department strongly believes in Learning-By-Doing and our constant endeavor is to impart project-based learning to students

We thank our Industry partners for facilitating us with Sponsored projects

- Mali Virendra Mukundrai and Wagh Om Nilesh are working on project, Instrumentation of water level monitoring and its front-end development sponsored by POVY Private Ltd under the guidance of External Guide, Yash Chavan and Vedangi Diwate
- Aaradhya Gharde, Vyankat Bhure and Gouri Desai are working on project, Upgradation of Instrumentation of water level monitoring and its front-end development sponsored by POVY Private Ltd under the guidance of External Guide, Yash Chavan and Vedangi Diwate
- Solanke Mangesh, Sumit Amit Tiwari and Waghmare Atharva are working on project, Cost Efficient EV Conversion Kit sponsored by Hemank auto parts Pvt. Ltd under the guidance of External Guide, Hemank Dabhade

❖ Social Event conducted by ISETS

Along with Academic activities Department conducts a lot of social, cultural and interpersonal development activities for students

- To celebrate the spirit of **Women's Day** together, ISETS celebrated **Womens Day Celebration on 9/03/24**
- ISETS conducted "**Easy Writing Competition on Women's Day**" on **8/3/2024** to celebrate the unsung heroines who have made significant sacrifices for society
- The expert session on **Network Security**, tailored for students of Electronics and Telecommunication Engineering (ENTC), on **10/4/2024** at A 301. Led by a seasoned cybersecurity professional **Mr. Prashant Gupta**, the event aimed to provide attendees with a comprehensive understanding of network security principles and equip them with practical skills to navigate the evolving landscape of cybersecurity.

❖ Sports Event Participation

- **Riddhi Ravindra Apar (SE-23-24)** secured **2nd place** at **Open Karate Championship, Universal Shotokan Karate Do-Association (USKA) 2024!!**
- **Riddhi Ravindra Apar (SE-23-24)** received **Black Belt Certificate** from **UNIVERSAL SHOTOKAN KARATE DO-ASSOCIATION** approved by **Karate Association of India (KIA)** Recognised by- **World Karate Federation Ministry of Sports & Youth Affairs Govt. Of India**

❖ Co-Curricular Activity Participation

Department has always inspired students to engage themselves in Co-Curricular activities so that they build their skills and be Industry ready

- TE and BE students (ENTC) attended conference- **miniOrange-IdentityShield Summit 24 @ IST Marigold Conventions, Pune, Maharashtra** on 22 & 23 February, 2024 from 10:00 AM - 5:30 PM where they attended **Workshops, Insightful sessions by Industry leaders, Exhibition booths showcasing state-of-the-art Cybersecurity Products and Invaluable resources to empower journey towards Cyber Security**
- SE, TE, BE students completed MOOC's course under IIRS Outreach Programme, **"Exploring Earth's Moon through Chandrayaan"** from February 19-23, 2024 under the guidance of coordinators, Dr. Harish Chandra Karnatak and Dr. Poonam S. Tiwari in the discipline Space Technology
- SE, TE, BE students completed MOOC's course under IIRS Outreach Programme, **"Geospatial Analysis using Google Earth Engine"** from February 19-23, 2024 under the guidance of coordinators, Dr. Harish Chandra Karnatak and Dr. Kamal Pandey in the discipline Space Technology
- SE students completed **IIT-B Spoken Tutorial** course on **eSIM**
- TE students completed **IIT-B Spoken Tutorial** course on **Python 3.4.3 Programming**
- BE students completed **IIT-B Spoken Tutorial** course on **LaTeX**
- **8 TE** students attended 2 Day Activation workshop on **Phase I of Creators of Metaverse** organized by Academia from 15-16 February 2024
- Kahaan Shah, Swapnil Shinde, Danish Mane and Aniruddha Kawle participated in Entrepreneurship Challenge Competition, I2IT on 5th March 24
- **8 TE** students attended Chat GPT Masterclass training organized by IIC, I2IT on 9th February 24
- Prathamesh Tarke, Shubham Athane, Soham Chavan and Ashwini Rasal, TE students attended workshop on Data Science using Python organized by Brainvision Solutions Pvt. Ltd. DPCOE, Pune from 19th February to 23rd February 2024
- Zahra Amin participated in Start-Up Surge 2024 competition on 13th April 24
- Samruddhi Bhadane attended Data Analytics workshop organized by Nxtwave on 31st January 2024

❖ MoU

Department has signed following MoU with Industry to provide opportunity for Internship, Sponsored Projects, Consultancy and various Collaborative Activities

Following is the list of MoU signed for Academic Year 2023-24

- RedR INDIA signed an MoU on 3 Dec 2023
- BigZero Technology signed an MoU on 16 February 2024

Following is the list of On-Going MOU

- Hofincons International Pvt Ltd, India signed an MoU on March-2023 for the duration March 2023 - June 2023
- Pune Knowledge Cluster Foundation signed an MoU on January-2023 for 3 Years
- Worldwide ITES signed an MoU on December-2022 for 5 Years
- Ginkgo Soft Company Limited, Bangkok, Thailand signed an MoU on June-2022 for the duration July 2022 - May 2023
- APVIKE signed an MoU on May-2022 for 5 years
- Student Promise signed an MoU on December-2021 till date
- Asian Disaster Preparedness Centre, Bangkok, Thailand signed an MoU on June-21 onwards
- FOUNTLAB SOLUTIONS PVT LTD signed an MoU on September-2020 for 5 Years
- Bharat Sanchar Nigam Limited signed an MoU on September-2020 for 3 Years
- The Centre for Education & Research in Geoscience signed an MoU on August-2020 for 5 Years
- Codex Solutions Pvt Ltd (MoA) signed an MoU on March-2020 till date
- Wisely Wise signed an MoU on July-2019 for 5 Years
- Shardashram Foundation signed an MoU on March-2019 for 5 Years
- TomTom signed an MoU on March-2019 for 5 Years
- IoT COE signed an MoU on May-2017 till date
- EdGate Technologies Pvt Ltd signed an MoU on