Department of Electronics and Telecommunication Engineering

ABHIYANTRIKI

Departmental Bi Annual Newsletter 2020-21

Volume -7 Issue 2

January-June 2021

K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai
NAAC Accredited Institute with 'A' Grade
NBA Accredited 3 Programs (Computer Engineering, Electronics Engineering,
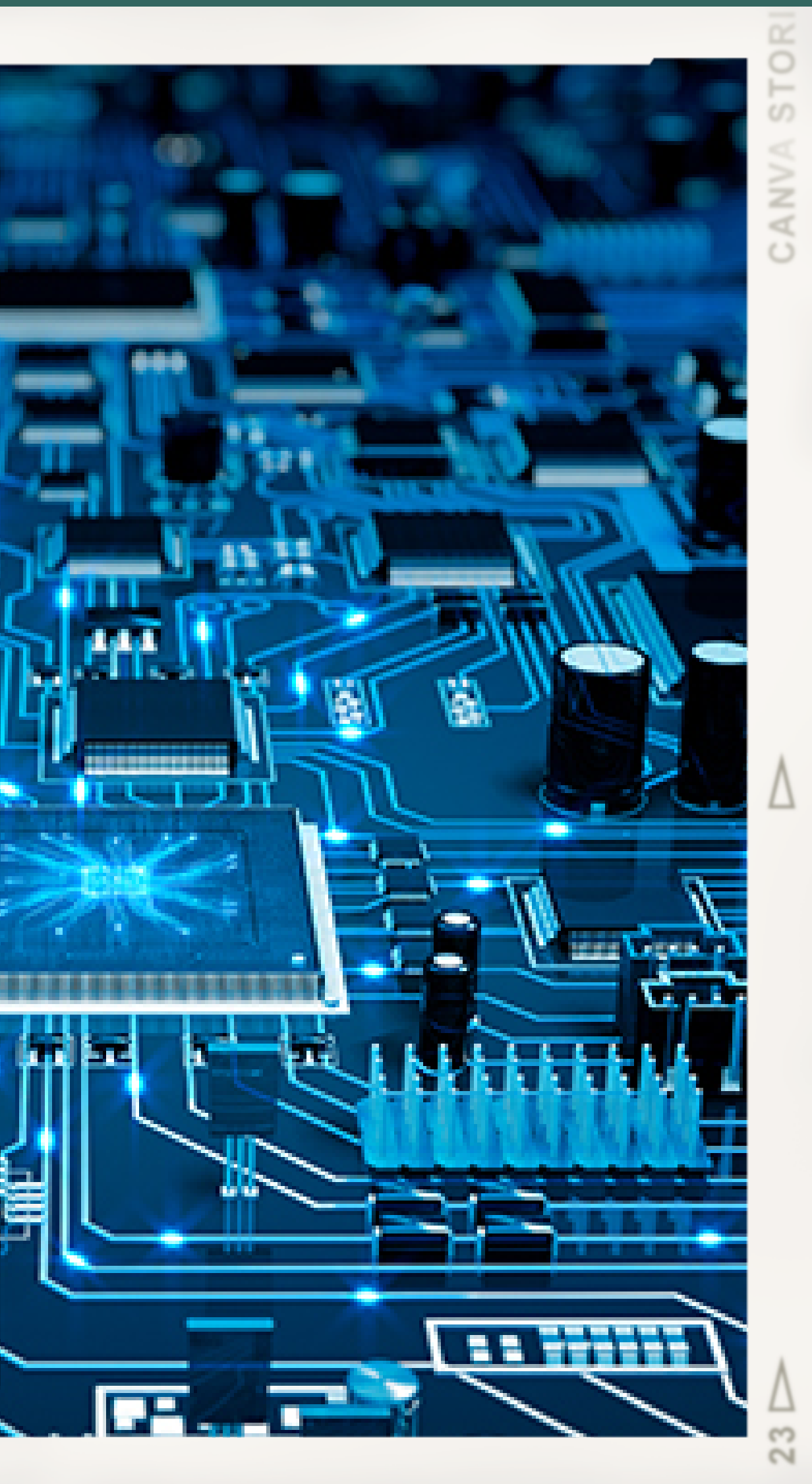*Electronics & Telecommunication Engineering)*
Permanently Affiliated to University of Mumbai

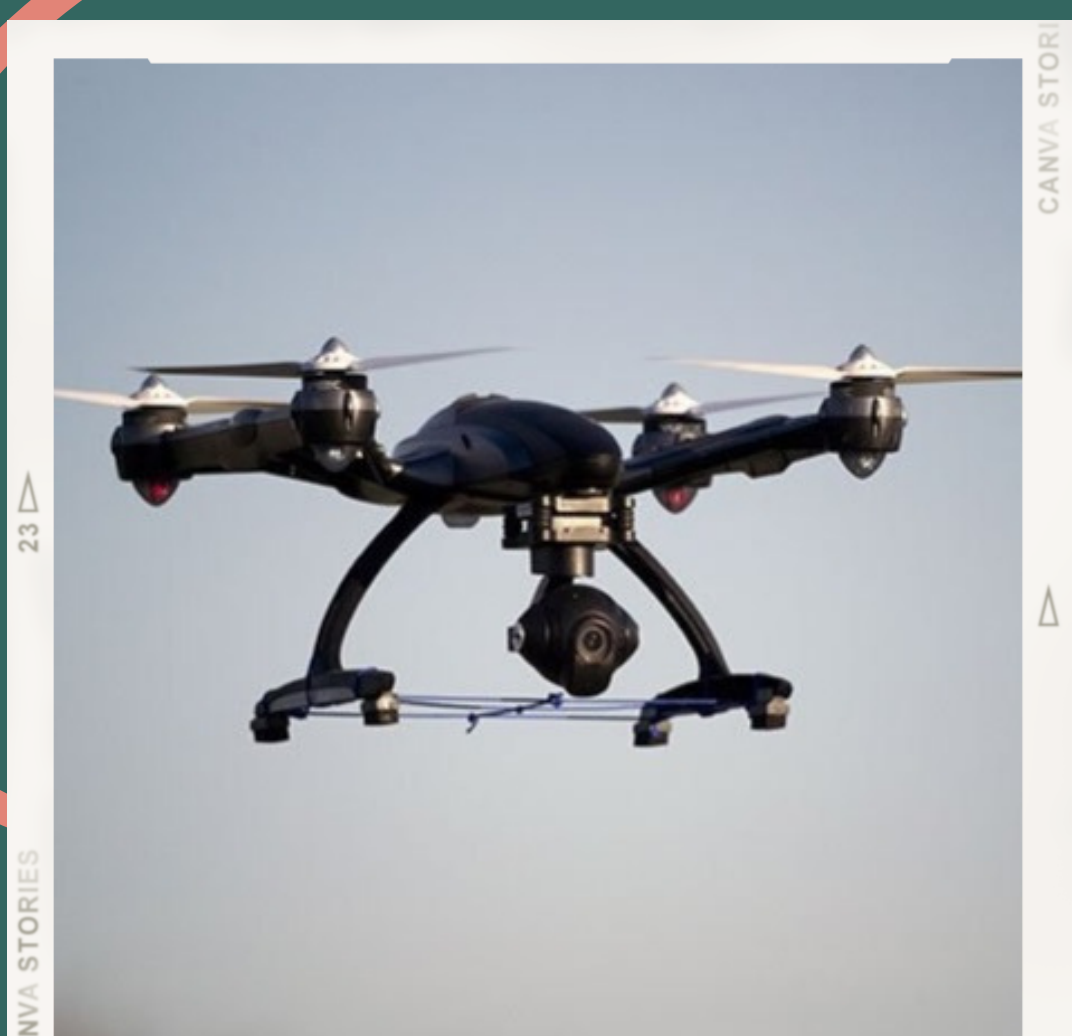## Department of Electronics and Telecommunication Engineering

OBJECTIVE OF THIS NEWSLETTER

EXPLORE THE UNEXPLORED!

The purpose to publish a bi-annual e-newsletter is to broadcast the activities and developments of the department. Achievements of the staff, students and alumni, events organized by the department are mentioned in this as well. Participation of staff and students in various events such as workshops, seminars, FDP, conferences and research activities are also mentioned. Success stories of participation in competitions and prizes won by the faculties and students are also depicted. This newsletter is the platform for projecting overall activities and achievements of the department every half yearly.
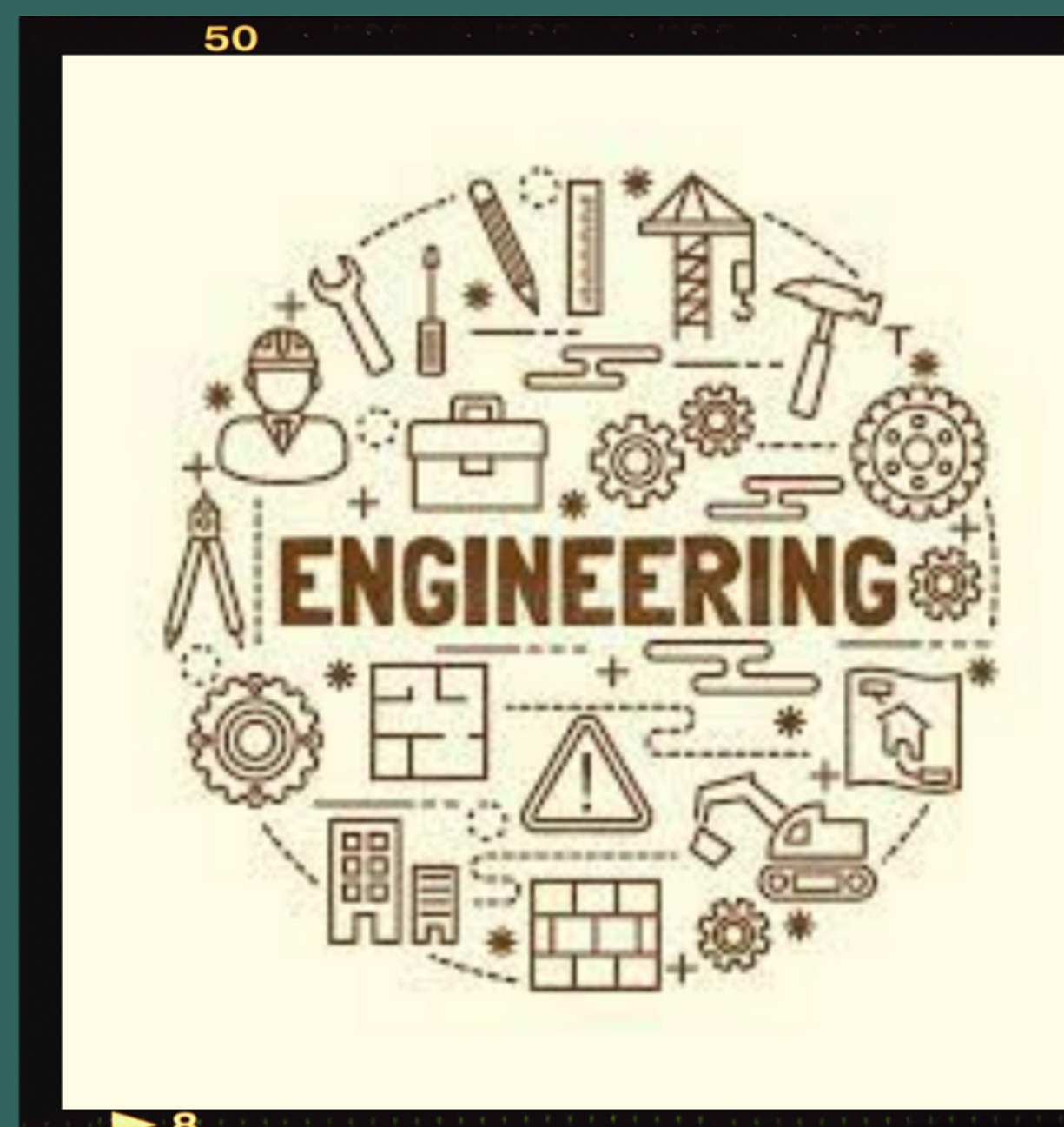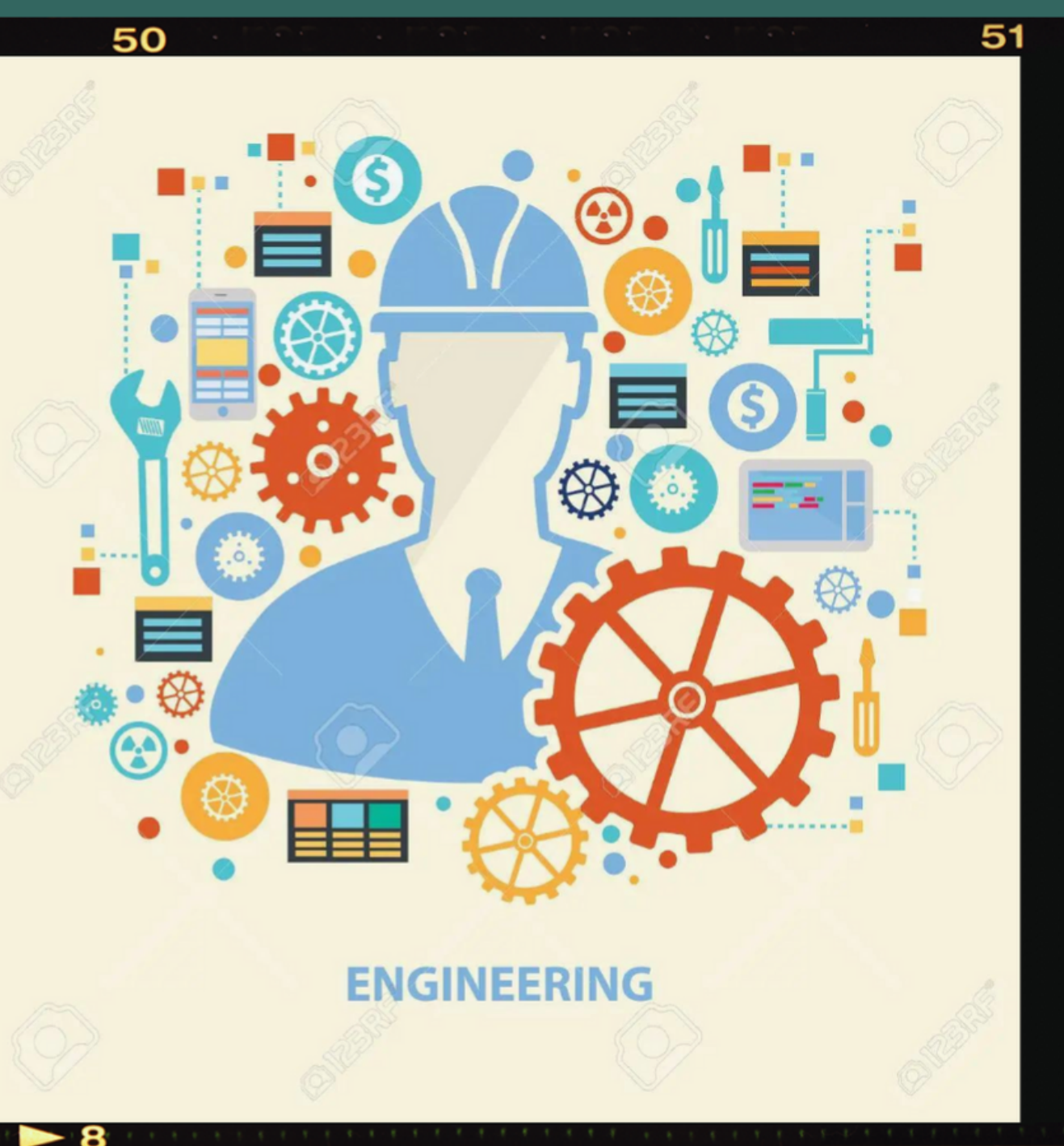
K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai

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Electronics & Telecommunication Engineering)
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Department of Electronics and Telecommunication Engineering

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 quality training in Electronics and Telecommunication Engineering to groom students into successful professional.

M2:-To instil the skills that enable students to design and implement the technical solution.

M3:-To inculcate ethical behavior, soft skills and team work in students.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS): -

PEO1: - Analyzing and applying engineering knowledge for solving engineering problems.

PEO2: - Demonstrating professional and ethical practices in the area of academia, research, career and entrepreneurship.

PEO3: - Applying the knowledge of engineering to solve societal and environmental problems as an individual or in a team.

PEO4: - Demonstrating effective oral and written communication skills and excellence in management and leadership.

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Department of Electronics and Telecommunication Engineering

FACULTY ACHIEVEMENTS

Dr. Jayashree Kahanapuri

- Dr. Jayashree Khanapuri presented paper on 'Self-driving car: Road map to Motion Plan Implementation' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Dr. Jayashree Khanapuri presented paper on 'A Novel Approach for Bone Age Assessment using Deep Learning' organized by International Journal of Scientific Research in Computer Science, Engineering, and Information Technology on May2021
- Dr. Jayshree Khanpuri's paper selected for the Avishkar project competition titled 'Self-driving Car: Road Map to Motion Plan Implementation'.
- Ø Dr. Jayashree Khanapuri received a grant as a 'Teacher PhD Degree in the subject of EXTC' from University of Mumbai on 17/06/21.
- Dr. Jayashree Khanapuri received a grant as a 'PhD Examination and thesis reviewer' from UKA Tersadia University on 20/05/21.
- Dr. Jayashree Khanapuri attended online course on 'Neural Networks & Deep Learning 'organized by Deep Learning AI on 21/05/21.

Prof. Kiran Rathod

- Prof. Kiran Rathod organised expert talk on 'Evolution in Electromagnetic Interference & Electromagnetic Compatibility Testing Technology and Career Opportunities' with resource person Mr. Sandip Dagde for BE students on 09/05/2021.
- Prof. Kiran Rathod reviewed the publication book 'Microstrip Antenna Design for Wireless Application" with CRC Press, Taylor, and Francis Group.

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- Prof. Kiran Rathod presented paper on Early Detection of Breast Cancer Using Microstrip Patch Antenna' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021. Prof. Kiran Rathod attended FDP on '5G & VNA measurements with Live demonstration using Anritsu Instruments' organized by ENTUPLE Technology from 28/06/21 to 30/06/21.

- Prof. Kiran Rathod attended training program on 'Awareness on current trends - IoT/VLSI/RF' organized by ENTUPLE Technology on 26/06/21.

- Prof. Kiran Rathod reviewed the publication book 'Smart Antenna: Latest trends in design and application' with Springer, titled 'Parasitic Antennas for Current and Future Wireless Communication Systems – Trends, Challenges and Emerging Aspects.'

- Prof. Kiran Rathod reviewed the paper 'Stacked Two-layer Dual Band Antenna for Wireless' in association with ISTE, teachers' chapter KJSCE, (MH103).

- Prof. Kiran Rathod reviewed the paper 'Tapered Antenna Array with Non-Identical Triangular MSA Elements for FSLL Reduction' in association with ISTE, teachers' chapter KJSCE, (MH103).

- Prof. Kiran Rathod presented paper on 'Performance Comparison and Analysis of Rectangular and Hexagonal Textile Antenna using Denim as Substrate at 2.45 GHz' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.

Prof. Pradnya Kamble

- Prof. Pradnya Kamble organised expert talk on 'Innovations in the Era of IoT and Industry Implementations' with resource person Mr. Dharmin Mehta for BE students on 03/05/2021.

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- Prof. Pradnya Kamble organized one-hour expert talk session on 'Job opportunities in Indian Airforce' for all students on 04/03/20 conducted by Mr. Santosh Mani.
- Prof. Pradnya Kamble organized one-hour expert talk session on 'Efficient way of Studying in Engineering' for SE students on 24/02/20 conducted by Mr. Jash Notaria.
- Prof. Pradyna Kamble organized one and half hour webinar on the topic of 'Higher Studies in India and Abroad' for BE EXTC students planning for higher studies on 03/05/20 conducted by Mr. Aakash Bhansali.
- Prof. Pradyna Kamble organized expert talk on 'Innovations in the Era of IoT and its Industry implementations' in association with alumni cell on 03/05/2021 with resource person Mr. Dharmin Mehta where 106 students participated for the same
- Prof. Pradnya Kamble presented paper on 'Internet of Things (IOT) Enabled Bot for Home Security' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Pradnya Kamble presented paper on 'Portable Security System for Women' organized by International Research Journal of Engineering and Technology (IRJET) on May2021.
- Prof. Pradnya Kamble organized webinar on 'Cyber Security- A Road Map to Career Opportunities and Challenges' on 12/06/21.

Prof. Sagar Mhatre

- Prof. Sagar Mhatre presented paper on 'Development of modular space grade solar panels for Pocket Qube standard satellite' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Sagar Mhatre presented paper on 'Voice controlled mini-CNC plotter organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021

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Prof. Tilottama Dhake

- Prof. Tilottama Dhake presented paper on 'Check the Effectiveness of Face mask and Air Quality Meter' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Tilottama Dhake presented paper on 'Virtual trial room' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Tilottama Dhake completed internship on 'Arduino' organized by KJSIEIT in association with IITB spoken tutorial for the duration of 15/05/21 to 29/05/21.

Prof. Prashant Upadhyay

- Prof. Prashant Upadhyay organised expert talk on 'Project Selection, submission, and Execution' with resource person Mr. Utkarsh Tiwari for all students on 16/05/2021.
- Prof. Prashant Upadhyay organised expert talk on 'Mathematical modelling of Robotics' with resource person Mr. Utkarsh Tiwari for all students on 20/06/2021.
- Prof. Prashant Upadhyay presented paper on 'Theft Detection Using Data Science' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Prashant Upadhyay presented paper on 'Intruder Detection System: A Literature Review' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021
- Prof. Prashant Upadhyay presented paper on 'Non-Invasive Health Band for Measurement of Health Parameters' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.

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- Prof. Prashant Upadhyay organized workshop on 'Learning Python for Raspberry pi' for all students on 16/05/21.

Prof. Swati Shinde

- Prof. Swati Shinde presented paper on 'IOT Based Fish Farming and its Applications' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Swati Shinde presented paper on 'Comparison between Michelson Interferometer and Fabry Perot Interferometer based on Silicon Photonics Technology' organized by PENSEE International Journal on May2021.
- Prof. Swati Shinde attended STTP on 'Embedded System Design' organized by K C College of Engineering from 14/06/21 to 19/06/21.

Prof. Sunil Patil

- Prof. Sunil Patil presented paper on 'Efficient Implementation Technique for OFDM on FPGA' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Sunil Patil presented paper on 'Agribot- System for Plant Disease Detection & Pesticide Sprinkling' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.

Prof. Vricha Chavan

- Prof. Vricha Chavan organized and moderated an international panel discussion on 'Innovations in science and technology for agricultural sustainable development' on 18/03/2021.

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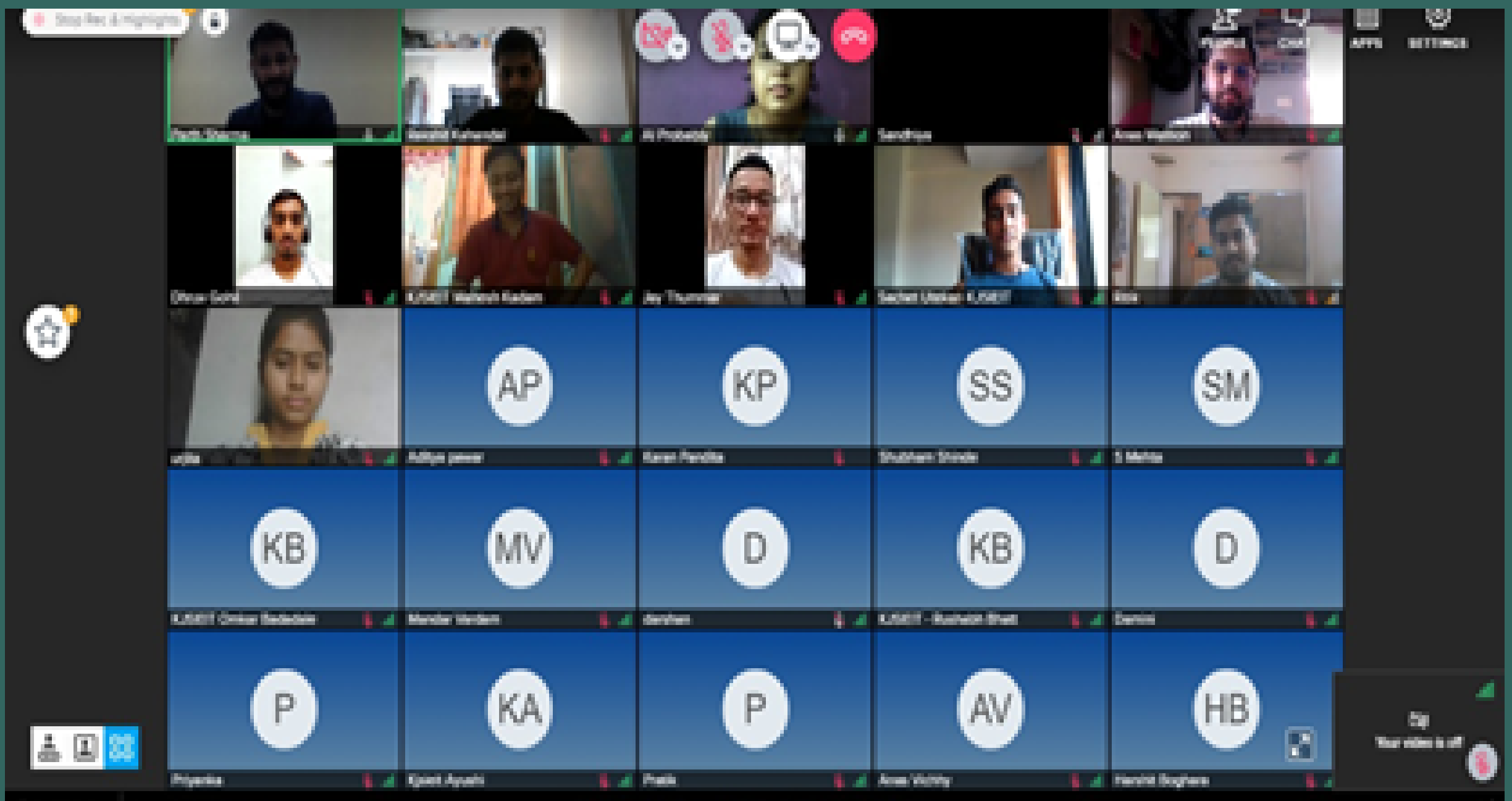*Best College Award by University of Mumbai (Urban Region), ISTE (MH), CSI (Mumbai)*

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- Prof. Vricha Chavan presented paper on 'Crop Yield Estimation Using Phenological Parameters' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Vricha Chavan invited as a panel member by Amity University on 08/03/2021 for the panel discussion on 'Stereotyping of women in science and technology'.
- Prof. Vricha Chavan arranged a national technical seminar on 'Speech to speech translation' on 16/03/2021 conducted by Dr. K Samudra Vijay, Former TIFR scientist.

Prof. Martand Jha

- Prof. Martand Jha presented paper on 'Financial Data Analysis Using Machine Learning' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.

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Prof. Pranali Hatode

- Prof. Pranali Hatode presented paper on 'Detection of brain tumor using image processing' organized by International Research Journal of Modernization in Engineering Technology and Science on May 2021
- Prof. Pranali Hatode presented paper on 'Markus: A social experience built using Augmented Reality' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Pranali Hatode organized 'Job Fair' for all students from 21/05/21 to 27/05/21.
- Prof. Pranali Hatode organized internship on 'Web Development and bootcamp' for students from 21/06/21 to 27/06/21.

Prof. Amit Kukreja

- Prof. Amit Kukreja presented paper on 'Online Auditorium & Turf Booking System' organized by International Journal for Research in Applied Science & Engineering Technology (IJRASET) on May2021.
- Prof. Amit Kukreja presented paper on 'Indian Fake Currency Note Detector' organized by International Journal for Research in Applied Science & Engineering Technology (IJRASET) on May2021.

Prof. Sandhya Deshpande

- Prof. Sandhya Deshpande organized webinar on 'Opportunities in Research and Development Organization' on 19/04/2021 in association with COEP cell and resource person was Mrs. Yamuna Shivprasad, Scientist and Counsellor at defense technology, high commission of India, London.
- Prof. Sandhya Deshpande organized webinar on 'India's Freedom Struggle' on 12/03/2021 in association with COEP cell and resource person was Anuradha Vishnu Gore.

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- Prof. Sandhya Deshpande presented paper on 'Temperature based Touchless Attendance System considering Covid-19' organized by International Journal for Research in Applied Science & Engineering Technology (IJRASET) on May2021.

- Prof. Sandhya Deshpande organized workshop in association with Nehru Science center and COEPS Cell on 'App Development' for all students from 30/06/21 to 01/07/21.

- Prof. Sandhya Deshpande organized online training program on 'COEPS CELL online training program' in association with Central Railways on 14/06/2021 where 79 internal and 04 external students participated for the same.

- Prof. Sandhya Deshpande organized workshop in association with Nehru Science center and COEPS Cell on 'App Development' for all students from 30/06/21 to 01/07/21.

- Prof. Sandhya Deshpande, Prof. Rupali Kadu attended workshop on 'Strategy to implement National Education Policy in Higher Educational Colleges organized by KJSIEIT on 28/06/21.

- Prof. Sandhya Deshpande organized online training program on 'COEPS CELL online training program' in association with Central Railways on 14/06/2021 where 79 internal and 04 external students participated for the same.

- Prof. Sandhya Deshpande mentored the team ((Pandey Riteish Kumar, Pentamer Pancharia, Aathira Gopinathan, Teerthraj Tapan Haldar, Krisha Chhadwa, Karthik Jagdish Hegde, Ananya Kura) in association with COEP Cell titled 'MAPATHON4009/3201' organized by IIT, ISRO and AICTE, and students awarded with noticeable participation for the same.

- Prof. Sandhya Deshpande along with team Rohan Sunil Gamare and Pranay Yashwant Chavan selected as a winning team in 'MAPATHON4009/3201' organized by IIT, ISRO and AICTE.

- Prof. Sandhya Deshpande selected as an internal mentor of Vidyanidhi Vrajlal Parekh High School for five different groups of project competition organized in the spirit of Anveshana, Mumbai.

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- Prof. Sandhya Deshpande organized webinar in association with COEP cell on 'Importance of Quality of Service in Networks' which was published in IWSA newsletter, the official publication of the Indian Women Scientists' association, in volume 47, issue no-03, ISSN 0972-6195 and resource person was Mr. Alhad Apte, Ex-Chairman, NTRO, Prime Minister's Office.

- Prof. Sandhya Deshpande organized webinar on 'Career Opportunities in Indian air force' on 18/03/2021 in association with COEP cell and resource person was Wag Cdr Shivprasad B Randad(R).

- Prof. Sandhya Deshpande organized online training program on 'COEPS CELL online training program' in association with Central Railways on 14/06/2021 where 79 internal and 04 external students participated for the same.

Prof. Sandeep Mishra

- Prof. Sandeep Mishra presented paper on 'Detection of retinal disease using image processing' organized by National Conference on Recent Trends in IoT, Machine learning, Artificial Intelligence & its applications on May2021.

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- Prof. Sandeep Mishra presented paper on 'Career guidance system using machine learning' organized by international journal of creative research thoughts on May2021.
- Prof. Sandeep Mishra attended STTP on 'Telecommunication Networks' organized by VIT from 03/05/21 to 08/05/21.

Prof. Rupali Kadu

- Prof. Rupali Kadu presented paper on 'ASTER: Automatic Smart Cleaning Robot' organized by International Journal for Research in Applied Science & Engineering Technology (IJRASET) on May2021.
- Prof. Rupali Kadu presented paper on 'Integrated Accident Prevention System for Alcohol Detection using GPS and GSM module' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Rupali Kadu attended STTP on 'Electric vehicle Evolution-Impact on power' from 08/02/2021 to 13/02/2021 organized by Sri Venkateshwara College of Engineering, Tamilnadu.

Prof.Rupali Satpute

- Prof.Rupali Satpute presented paper on 'Healthcare Monitoring System for Smart Campus' organized by International Research Journal of Engineering and Technology (IRJET) on May2021.
- Prof.Rupali Satpute presented paper on 'Image Forgery Detection and Localization' organized by international Journal of Scientific Research in Computer Science, Engineering, and Information Technology on May2021.
- Prof. Rupali Satpute attended orientation program of Microcontroller, SE, Sem IV on 20/01/2021.
- Prof. Rupali Satpute attended orientation program of miniproject, SE, Sem IV on 18/01/2021.

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- Prof. Rupali Satpute attended orientation program of SS, SE, Sem IV on 16/01/2021 organized by Fr. C. Rodrigues Institute of Technology, Department of Electronics & Telecommunication Engineering, Navi Mumbai.
- Prof. Rupali Satpute attended 'National Education Conclave' webinar on 12/01/2021 to 13/ 01/2021 organized by Heartfulness Education trust.

Dr. Sandhya Kadam

- Dr. Sandhya Kadam presented paper on 'Smart Street Light System Using Raspberry pi' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Dr. Sandhya Kadam presented paper on 'Tweet Sentiment Analysis Using Data Visualization Robot' organized by International Journal for Research in Applied Science & Engineering Technology (IJRASET) on May2021.
- Dr. Sandhya Kadam attended AICTE-ISTE approved orientation program on 'Antenna Design and Analysis' from 01/03/2021 to 06/03/2021 organized by St. Xavier's Technical Institute, Mumbai.

Prof. Rashmi Adatkar

- Prof. Rashmi Adatkar attended FDP on 'Master class in ML' organized by PANTECH Solutions from 17/05/21 to 21/05/21.
- Prof. Rashmi Adatkar attended webinar on 'Opportunities Challenges in electronics allied industries in India post Covid-19' organized by VESIT from 25/05/21 to 30/05/21.
- Prof. Rashmi Adatkar presented paper on 'UVC Disinfectant Robot' organized by 4th International Conference on Advances in Science & Technology (ICAST-2021) KJSIEIT on May2021.
- Prof. Rashmi Adatkar attended FDP on 'Master class in ML' organized by PANTECH Solutions from 17/05/21 to 21/05/21.

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- Prof. Rashmi Adatkar attended webinar on 'Opportunities Challenges in electronics allied industries in India post Covid-19' organized by VESIT from 25/05/21 to 30/05/21.
- Prof.Rashmi Adatkar's paper selected for the Avishkar project competition titled 'Solar Based Multitasking Agriculture Robot'.

- MOU signed with Entuple Technologies Pvt.Ltd., Bangalore for four months 'Carrier Building Programs' under that internships and workshops conducted, 37 students from third year and 23 students from second year enrolled for the samea

- Prof. Pranali Hatode and Prof. Sandeep Mishra organized 'Job Fair' in association with IEEE on 21/05/2021 on online mode where 90 internal and 138 external students participated for the same.

- All faculties and staff attended FDP on 'Strategies for sustaining Quality Culture in Autonomous Colleges' organized by KJSIEIT from 21/06/21 to 26/06/21.

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- Dr. Jayashree Khanapuri, Prof. Rupali Satpute, Prof. Rashmi Adatkar, Prof. Sandeep Mishra, Mr. Martand Jha, Prof. Swati Shinde attended FDP on 'Emerging Trends in AIML' organized by ARMIET from 17/05/21 to 22/05/21.

- Dr. Namrata Ansari, Prof. Sunil Patil, Mr. Martand Jha attended FDP on 'Cyber Security Awareness' organized by Computer Science & Engineering of Amity School of Engineering and Technology, Amity University Mumbai from 24/05/21 to 28/05/21.

- Dr. Sandhya Kadam, Prof. Vricha Chavan, Prof. Sandeep Mishra, Prof. Harshvardhan Ahire, Mr. Martand Jha, Prof. Rupali Kadu, Prof. Sagar Mhatre, Prof. Sandhya Deshpande attended webinar on 'Technology - How it is going to impact Education in the Future' organized by KJSIEIT on 07/06/21.

- Dr. Sandhya Kadam, Prof. Vricha Chavan, Prof. Sandeep Mishra, Prof. Harshvardhan Ahire, Mr. Martand Jha, Prof. Rupali Kadu, Prof. Sagar Mhatre, Prof. Sandhya Deshpande attended webinar on 'Technology - How it is going to impact Education in the Future' organized by KJSIEIT on 07/06/21.

- Prof. Tilottama Dhake, Prof. Rupali Satpute, Prof. Sunil Patil, Mr. Martand Jha, Prof. Sandhya Deshpande attended workshop on 'Intellectual Property Rights and IP managements for startup' organized by KJSIEIT on 16/05/21.

- Prof. Kiran Rathod, Prof. Rashmi Adatkar, Prof. Sunil Patil, Prof. Sandeep Mishra, Prof. Swati Shinde attended webinar on 'Changing Stereotypical Gender Roles' organized by KJSIEIT on 28/05/21.

- Prof. Kiran Rathod, Prof. Rashmi Adatkar, Prof. Sandeep Mishra, Prof. Harshvardhan Ahire, Prof. Rupali Kadu, Prof. Swati Shinde, Prof. Sandhya Deshpande attended webinar on 'Chhatrapati Shri. Shivaji Maharaj-An Inspirational Ruler' organized by KJSIEIT on 06/06/21.

- Prof. Rashmi Adatkar, Prof. Rupali Kadu organized webinar on 'Menstrual Health and Hygiene session' on 13/05/21.

- Prof. Sandhya Deshpande, Prof. Rupali Kadu attended workshop on 'Strategy to implement National Education Policy in Higher Educational Colleges organized by KJSIEIT on 28/06/21.

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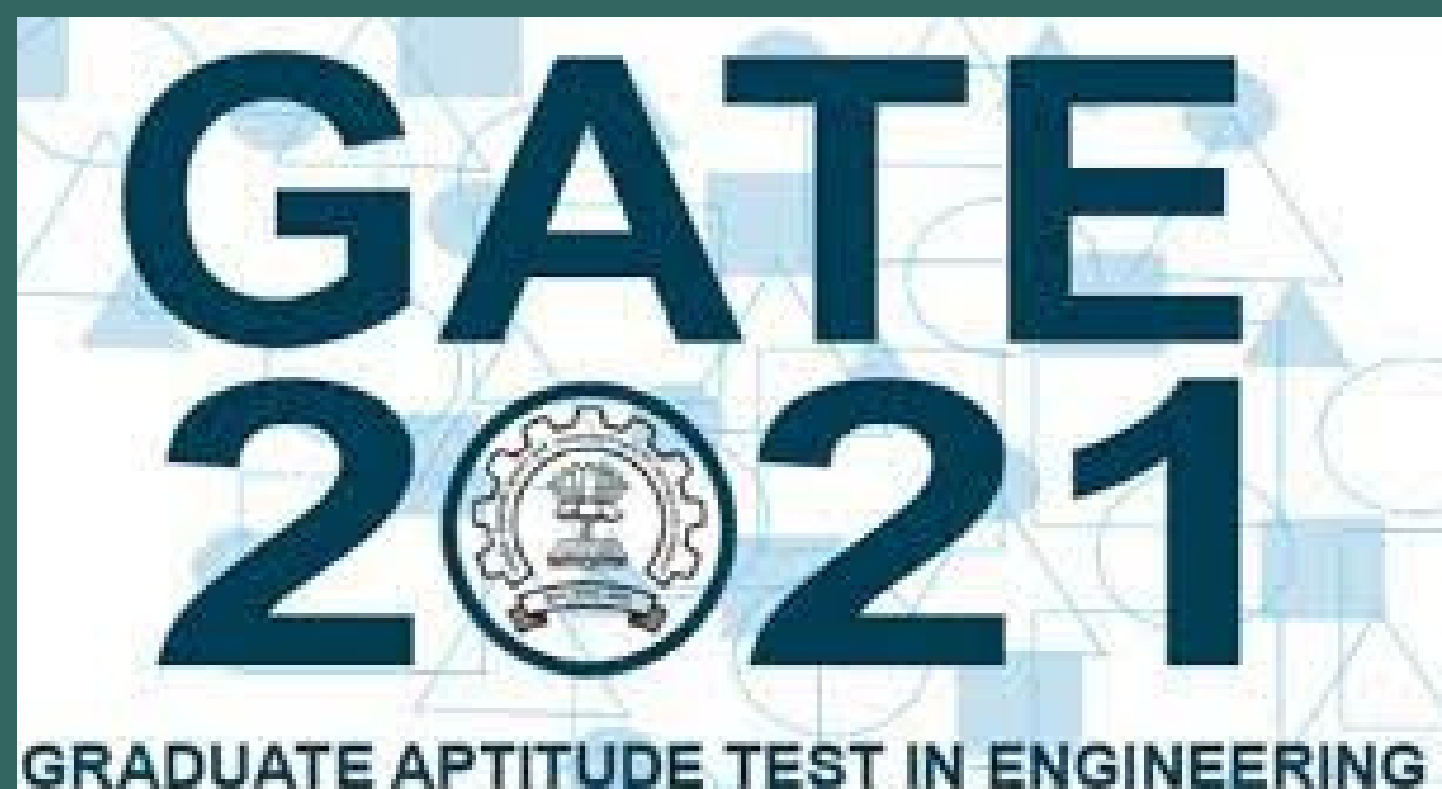## Department of Electronics and Telecommunication Engineering
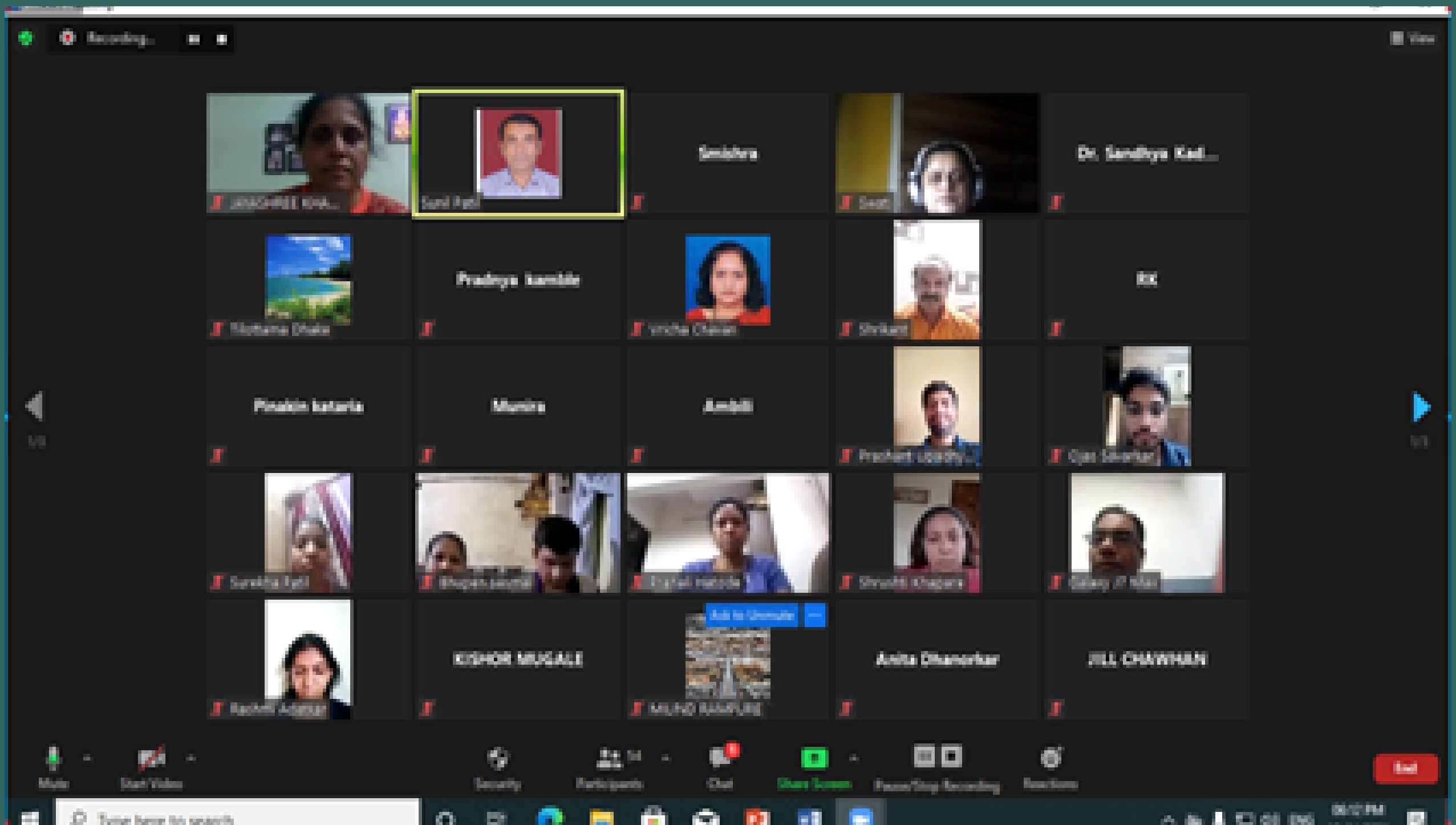
- Department of Electronics and Telecommunication conducted online 'Parent's Teacher Meeting' on zoom platform, 76 parents participated for the same held on 10/04/2021.

- Prof. Rupali Satpute and Prof. Rupali Kadu attended webinar on 'National Education Policy 2020' on 04/03/2021 organized by Internal Quality Assurance cell, KJSIEIT, Sion.

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STUDENTS' ACHIEVEMENTS

- Mr. Raj Shekhar Mukherjee from third year secured 'AIR 353' in GATE – 2021 organized by IIT, Mumbai.
- Mr. Abhishek Pandey from final year secured 'AIR 749' in GATE – 2021 organized by IIT, Mumbai.
- Manas Sable and group won winner prize for the project 'Modular space grade solar panels for Pocket Qube standard satellite as a product' organized by IET INTECH on 17/04/2021.
- Nishan Poojary and group won runner up prize for the project 'Bone Age Assessment Using Deep Learning' organized by IET INTECH on 17/04/2021.
- Deep Zaveri and group won runner up prize for the project 'Disinfectant Robot' organized by IET INTECH on 17/04/2021.
- Mr. Ravi Jaiswal, Co-Founder of 'Skylo Innovations' felicitated as a star alumnus at alumnite on 24/04/2021.
- Mr. Pravin Pandirkar holds a position of 'Network Development Engineer', Amazon, CCIE-SP felicitated as a star alumnus at alumnite on 24/04/2021.
- Mr. Rushil Chaturwedi holds a position of 'Advisory Services, Risk and Technology Consultant' felicitated as a star alumnus at alumnite on 24/04/2021.
- Mr. Anupam Upadhyay holds a position of 'Senior Buyer at British Telecom' felicitated as a star alumnus at alumnite on 24/04/2021.
- Mr. Aakash Bhansali holds a position of 'Solar Design Engineer at Omni Energy Solutions' felicitated as a star alumnus at alumnite on 24/

GATE 2021
GRADUATE APTITUDE TEST IN ENGINEERING

Department of Electronics and Telecommunication Engineering

EDITORIAL TEAM:

Dr. Jayashree Khanapuri

Prof. Rupali Kadu

Pratham Kankariya (SY)

Nehal Panchal (SY)