



Volume 13
2023

DBIT - EXTC SPECTRUM

DON BOSCO INSTITUTE OF TECHNOLOGY

WHAT'S INSIDE ?



STUDENTS' ACADEMIC
ACHIEVEMENTS



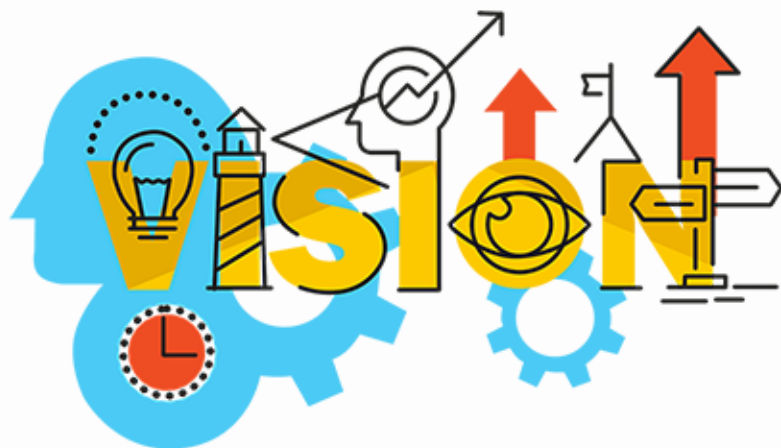
FACULTY CONTRIBUTION
& ACHIEVEMENTS



ACTIVITIES ORGANIZED
BY DEPARTMENT

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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING



To emerge as a globally recognized program for holistic technical education in the field of Electronic and Telecommunication Engineering.



M1: To produce technically competent, employable and socially responsible graduates with professional ethics.

M2: To facilitate creativity, research, innovation, teamwork and entrepreneur skills to meet academic, industrial and societal needs.

PROGRAMME EDUCATIONAL OBJECTIVES

- PE01:** To analyze, design and develop systems for applications in Electronics and Telecommunication and allied Engineering fields with professional ethics.
- PE02:** To pursue higher education in recognized national and/or international universities and carry out research and development work in the field of Electronics and Telecommunication Engineering.
- PE03:** To get gainfully employed and/or become entrepreneurs in the field of Electronics and Telecommunication Engineering.



FROM THE HOD'S DESK

Greetings of the day!

As the Head of Department (EXTC) , I take the privilege of launching this edition of DBIT - EXTC – Spectrum. The purpose is to give you a kaleidoscopic view of events and activities organized in the department along with achievements and accomplishments of the faculty and students.

Over the years, EXTC department has been in the forefront of skill enhancement for students. Based on AICTE and guidelines from University of Mumbai the department has introduced an Honours course on “Internet of Things” which stands to be the next revolution in computing.

As we say variety is the spice of life, the department has always succeeded in bringing this variety to nurture the holistic development; be it through classroom discussions, counselling sessions, in-house training programmes, workshops, intra and intercollegiate fests and competitions, research and presentations, peer learning all these in turn provide a favourable environment for the well-being of our students.

On behalf of the department I would like to thank all the alumnus for their continued support. They have not only helped in conduction of expert lectures and workshops but also provided financial support to our students. I would also like to acknowledge all the people from the Industry who have collaborated with us and helped us in providing the students with better industrial exposure.

I would like to thank all the faculty members for their dedication and commitment towards the growth of the department and the commendable energy and enthusiasm of the students without whom this newsletter would not have been possible. Last but not the least I would like to congratulate Mrs. Pratibha Dumane, Editor for compiling this newsletter to provide a panorama of all that has happened in the department during this AY- 2022-23.



- Mrs. Namita Agarwal

FROM THE EDITOR'S DESK

I am happy to present to you once again the 13th edition of our department newsletter, DBIT - EXTC - Spectrum.

As dedicated educators, we strive to synergistically align our efforts with the Vision and Mission of Don Bosco Institute of Technology.



Within the pages of this newsletter, you will witness the contagious enthusiasm and dedication of our teachers and students. The laughter and smiles resonate through the achievements and triumphs showcased herein - a result of the unwavering teamwork and commitment of all. All contributions - big and small - are the driving force behind our collective achievements.

This edition is the result of months of painstaking effort, dedicated to compiling a realistic mosaic of activities, showcasing the creative talent of our students and teachers and sharing the collective success with our esteemed readers. This newsletter also serves as a platform to acknowledge and honour the endeavours of all involved.

Special thanks to Mr. Immanuel Machado for his invaluable assistance in bringing this edition of the newsletter to fruition.

We cherish the spectrum of precious moments that defined yet another splendid year.

Enjoy Reading!

- Ms. Pratibha Dumane

STUDENTS' ACADEMIC ACHIEVEMENTS 2021 - 2022

S.E. EXTC SEMESTER III

RANK	NAME OF STUDENT
1	Khantwal Rakshita Rajeev Smita
2	Lovely Varhsney Chanchal Kumar
3	Kumar Sanskar Prafful Pushpalata

S.E. EXTC SEMESTER IV

RANK	NAME OF STUDENT
1	Khantwal Rakshita Rajeev Smita
2	Lovely Varhsney Chanchal Kumar
3	Nanaware Shreyas Sanjay Kalpana

S.E. EXTC SEMESTER VII

RANK	NAME OF STUDENT
1	Katariyar Shubhangi Anup Kumar Manisha
2	Pandey Adarsh Sanjay Rekha
3	Chauhan Sadanand Umesh Shakuntala

S.E. EXTC SEMESTER VIII

RANK	NAME OF STUDENT
1	Dey Arka Prabhat Lata
2	Sawant Balkrishna Vishwanath Arti
3	Ghai Rohan Naresh Sujata

ACADEMIC ADVISORY COMMITTEE (AAC) MEETING

The AAC meeting was organised on 27 August 2022. Several points were discussed including the Minor / Honours course being offered to the students, the various activities and events planned for the benefit of the students, challenges faced, etc.

The AAC meeting served as a platform for constructive dialogue and collaboration among stakeholders, enabling the department to benefit from diverse perspectives and expertise.

The meeting reinforced the department's commitment to academic excellence, innovation, and continuous improvement, ensuring that the academic programs remain responsive to the changing needs of students and society. The valuable insights and recommendations from the council members will contribute to the ongoing efforts to provide a high-quality educational experience and foster a culture of excellence.



PARENTS - TEACHERS MEETING

The Parents-Teachers meeting was conducted on 17 September 2022 and 25 February 2023 with an aim to foster effective communication and collaboration as parents are an integral part of the process of teaching and learning. The purpose of the meeting was to discuss the students' academic progress, and address any issues or queries of the parents.



The teacher's shared the progress reports of the students, highlighting the progress & strengths and areas for improvement. The Head of Department, Ms. Namita Agarwal stressed the importance of holistic development and discussed the co-curricular activities available in the department and the institute. The parents were briefed about the various clubs, events and opportunities for students to enhance their skills beyond the classroom.

MoU with TATA Memorial Hospital

Dr. Satishkumar Chavan played a pivotal role in facilitating an MoU between DBIT and Tata Memorial Hospital for collaborative research in medical health care. This collaboration will foster joint research initiatives and development projects.



ALUMNI MEET

The alumni are one of the important stakeholders of any educational organisation and it is a very nostalgic feeling for the alumni to return to their alma mater.

An alumni meet was organised on 7 January 2023 wherein many alumni from 2012 batch onwards attended the meet. The event coordinated by Ms. Madhavi Pednekar with whole hearted support from all the department faculty consisted of ice-breaking sessions, games, and inputs from the alumni towards

enhancing the teaching-learning process, placements, research and projects.



CONFERENCE PAPERS

- Badgujar Hitesh, Aman Khan, Freda Carvalho, Ashwini Kotrashetti, Sambit Ghosh, and Somak Bhattacharyya, "Design of a Dual Band Monolayer Metasurface Based Bandpass Filter", 2022 IEEE Region 10 Symposium (TENSYMP), pp. 1-5. IEEE, 2022.
- Chauhan Sadanand, Solomon Stephen, Freda Carvalho, Ashwini Kotrashetti, Sambit Ghosh, and Somak Bhattacharyya, "Design and Analysis of a Compact Metasurface Based Filter for Broadband Performance", 2022 IEEE Region 10 Symposium (TENSYMP), pp. 1-5. IEEE, 2022.



- Aparna Telgote, Sudhakar Mande presented a paper on "Effect of IEEE 802.15.4 MAC Layer on Energy Consumption for Routing Protocol for Low Power Lossy Networks (RPL)." In: Bhattacharyya, S., Koepfen, M., De, D., Piuri, V. (eds) Intelligent Systems and Human Machine Collaboration. Lecture Notes in Electrical Engineering, Vol 985.

Springer, Singapore. https://doi.org/10.1007/978-981-19-8477-8_16

- Vaibhav Parate, Arka Dey, Manas Bhandarkar, Saadiya Dafedar, Satishkumar Chavan, "Age Progression and Regression using CycleGAN," IEEE 3rd Global Conference for Advancement in Technology (GCAT 2022), 7-9 October 2022, Bangalore, India, pp. 1-6, IEEE, 2022.

DOI: <https://doi.org/10.1109/GCAT55367.2022.9972089>

- Abhishek Tripathi, Shafaque Shaikh, Elton Noronha, Sagar Kote, Pratibha Dumane, Satishkumar Chavan, presented a paper titled "Sustainable Development Assessment of South Asian Countries using Fuzzy Logic" in the 4th International Conference on Advanced Technologies for Social Application Techno-Societal 2022, organised by Shri Vithal Education & Research Institute (SVERI), Pandharpur, Maharashtra, India on 9-10 December 2022.

FACULTY RECOGNITION

- Dr. Sudhakar Mande was invited as reviewer for K. Shankar Meritorious Awards 2022 at Somaiya University, Mumbai.
- Dr. Sudhakar Mande is the University Representative in the Board of Studies of Electronics & Telecommunications Engg., D.J. Sanghvi College of Engineering, Mumbai.
- Dr. Satishkumar Chavan was Session Expert in the 5th IEEE-International Conference on "Advances in Science and Technology held at K. J. Somaiya Institute of Engineering and Information Technology, Mumbai on 02-03 December 2022.



- Dr. Satishkumar Chavan was Session Chair in the 4th International Conference on Advanced Technologies for Social Application Techno-Societal 2022, organised by Shri Vithal Education & Research Institute (SVERI), Pandharpur, Maharashtra, India on 09-10 December 2022.
- Dr. Ashwini Kotrashetti was appointed as the first Dean of Student Progress in DBIT in September 2022.
- Dr. Ashwini Kotrashetti was an expert panellist for interviews

conducted for the post of Junior & Senior Research Scientist at Society for Applied Microwave Electronics Engineering and Research (SAMEER), Mumbai.

- Dr. Ashwini Kotrashetti has been included in the list of reviewers of IEEE Transactions on Microwave Theory and Techniques in July 2022.

- Dr. Sudhakar Mande was invited as reviewer for 2023 IEEE Region 10 Symposium (TENSYPMP) at UNSW, Canberra, Australia.
- Dr. Sudhakar Mande was invited as a reviewer for the 5th Biennial International Conference on Nascent Technologies in Engineering organised on 20-21 January 2023 by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India.
- Dr. Ashwini Kotrashetti was invited as a reviewer for the 2023 IEEE International Symposium on Antennas and Propagation (ISAP 2023) to be held from 30 October 2023 to 02 November 2023 at Kuala Lumpur, Malaysia.
- Ms. Pratibha Dumane was invited as a Judge for the Elocution Competition and Poetry Recitation Competition organised in the institute as part of the "Azadi ka Amrit Mahotsav" on 11 August 2022.
- Ms. Pratibha Dumane was invited as a reviewer for the following conferences:
 - 2023 Second International Conference on Smart Technologies and Systems for Next Generation Computing (ICSTSN 2023) organised by IFET College of Engineering on 22-23 April 2023, Villupuram, Tamil Nadu, India.
 - IEEE International Conference on Computing, Communication, and Intelligent Systems on 04-05 November 2022 Sharda University, Greater Noida, India.
 - The second IEEE-International Conference on Computational Intelligence and Sustainable Engineering (CISES-2023) organised by GL Bajaj Institute of Technology and Management, Greater Noida, Delhi-NCR, India, 28-30 April 2023.
 - 5th Biennial International Conference on Nascent Technologies in Engineering organised on 20-21 January 2023 by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, India.

FACULTY ENGAGEMENTS WITH THE UNIVERSITY OF MUMBAI

- Dr. Sudhakar Mande conducted an Orientation Programme hosted by DBIT for the course ECC7011 "Efficient Architectures for DSP Algorithms" in online mode on 14 July 2022.
- Ms. Pratibha Dumane attended the University of Mumbai approved Faculty Orientation Programme for the course ECCDLO7012 "Deep Learning" of revised syllabus of B.E. Sem VII Rev-2019 'C' Scheme on 15 July 2022 organised by Dept. of Electronics & Telecommunication Engineering, Thadomal Shahani Engineering College, Mumbai on behalf of the University of Mumbai.
- Ms. Pratibha Dumane attended the University of Mumbai approved Faculty Orientation Programme for the course ECCDLO8012 "Natural Language Processing" of revised syllabus of B.E. Sem VIII Rev-2019 'C' Scheme on 09 January 2023 jointly hosted by Fr. C. Rodrigues Institute of Technology, Vashi, Finolex Academy of Management & Technology, Ratnagiri, and Xavier Institute of Engineering, Mumbai on behalf of the University of Mumbai.
- Mr. Joshua Michael attended the University of Mumbai approved Faculty Orientation Program for the course ECCDLO8013 "Wireless Networks" of the revised syllabus of B.E. Sem VIII Rev-2019 'C' Scheme on 23 January 2023, organised by Vidyavardhini's College of Engineering and Technology on behalf of the University of Mumbai.
- Ms. Namita Agarwal attended the University of Mumbai approved Faculty Orientation Program for the course ECCDLO8022 "Satellite and Nano Satellite Communication" of the revised syllabus of B.E. Sem VIII Rev 2019 'C' scheme Department of Electronics & Telecommunication Engineering, on 06 February 2023 organised by Vivekanand Education Society's Institute of Technology, Mumbai, on behalf of University of Mumbai.
- Ms. Aparna M. Telgote was a member of the syllabus setting committee for the ECCDLO8013 "Wireless Networks" course of the revised syllabus of B.E. Sem VIII Rev-2019 'C' Scheme.

- Ms. Poonam Chakraborty was a member of the syllabus setting committee for the ECCDLO8023 "Network Management in Telecommunication" course of the revised syllabus of B.E. Sem VIII Rev-2019 'C' Scheme.



CERTIFICATION BY FACULTY MEMBERS



- Dr. Sudhakar Mande successfully completed the NPTEL course on "Introduction To Industry 4.0 and Internet of Things" in December 2022.
- Mr. Joshua Michael successfully completed "The Complete Solar Energy Course - Beginner to Advanced Level" taught by Leandro Caruso on Udemy.
- Ms. Poonam Chakraborty completed the online Innovation Ambassador Foundation and Advanced Level training conducted by MoE's Innovation Cell and AICTE during the IIC calendar year 21-22, certificate issued in October 22.

INVITED TALKS BY FACULTY MEMBERS



- Dr. Ashwini Kotrashetti delivered a talk on "Metastructure Based Antenna Design" at Thakur College of Engineering, Mumbai on 24 March 2022.
- Ms. Gejo George conducted a workshop on "Effective Team-Work" for the students on 14 September 2022.

- Ms. Pratibha Dumane conducted a session on "Email Etiquette" for the non-teaching staff of the EXTC department on 29 September 2022.
- Dr. Mande conducted a session on "What is Final Year Project?" for the students of TE (EXTC) on 5 December 2022 at Don Bosco Institute of Technology.
- Dr. Satishkumar Chavan delivered a talk on "Medical Image Analysis using Deep Learning" in the STTP on "Signal Processing using Machine Learning Algorithms" at Ramrao Adik Institute of Technology, D.Y. Patil Deemed to be University, Nerul, Navi Mumbai on 05 January 2023.
- Dr. Satishkumar Chavan delivered a talk on "Image Analysis using Machine Learning for Biomedical Applications" in ISTE approved Faculty Development Programme on "AI Algorithms and Applications in Healthcare" organised by Finolex Academy of Management and Technology, Ratnagiri, Maharashtra on 22 June 2023
- Ms. Pratibha Dumane delivered a talk on "Role of AI in Industrial Automation" in the Directorate of Technical Education sponsored One-Week Faculty Development Programme on "Industrial Automation with PLC and Embedded System" from 6-10 February 2023 organised by Government Polytechnic, Pen, District Raigad.
- Dr. Sudhakar Mande delivered a talk on "VLSI for AI & ML and AI & ML for VLSI" at Jeppiaar Institute of Technology, Chennai on 16 February 2023.

- Ms. Pratibha Dumane delivered a talk on “Email Etiquette” for employees of the Wani Group of Companies on 05 March 2023.
- Dr. Sudhakar Mande delivered a talk on “How to Write Technical Paper” at IETE-ISF Oscillations 2023 hosted by Don Bosco Institute of Technology, Mumbai on 10 April 2023.
- Ms. Freda Carvalho and 32 IEEE DBIT Student volunteers conducted a STEM Education Workshop for 120 students and 7 teachers of schools in Mumbai ‘L’ward.



FACULTY AND STAFF AWARDS

- Dr. Sudhakar Mande and co-author Aprajita Bera have received the Best Paper Award for their paper titled “Design and Optimization of Power Distribution (PDN) for Improved Power Integrity (PI) Performance using Plackett-Burman Design of Experiment (PB-DoE) Methodology” presented in the 8th International Conference on Nanoelectronics, Computational Intelligence & Communication Systems (NCCS-2022) organised by Indian Society for VLSI Education, Ranchi at Advanced Regional Telecom Training Centre, BSNL, Ranchi, Jharkhand, India during 17-18 December 2022.
- Ms. Namita Agarwal secured an Elite + Gold award in the NPTEL - AICTE Online Certification Course / Faculty Development Programme on “Designing Learner - Centric MOOCs”. She is a topper amongst 90 candidates certified for this course.
- Ms. Pratibha Dumane secured an Elite award in the 12 week NPTEL-AICTE Online Certification Course/Faculty Development Programme on “United Nations Sustainable Development Goals (UN SDGs)” during January-April 2023.
- Ms. Pratibha Dumane won the 1st prize in the Navratri Garba organised by the DBIT Staff Welfare Committee on 01 October 2022.

STUDENT CO-CURRICULAR AND EXTRA-CURRICULAR ACHIEVEMENTS

- Needhi Kamble (TE) participated in a one day “First Responder Training” conducted by Disaster Management Department of Municipal Corporation of Greater Mumbai organised on 09 April 2022.
- Benish Christo (TE) successfully completed the online course on “Automating Real-World Tasks with Python” authorised by Google and offered through Coursera.
- Shreyas Nanaware (TE) successfully completed the online “Crash Course on Python” authorised by Google and offered through Coursera.
- Benish Christo, Shreyas Nanaware (TE) participated in the Impact Session on “Incubation and Pre-Incubation” and “IPR and Patenting” held on 14 July 2022, organised by the MHRD’s Innovation Cell, AICTE, MOE’s IIC and Don Bosco Institute of Technology IIC, Mumbai.
- Kajal Sathe, Shreeya Pimple (TE) participated in the Impact Session on “Women Entrepreneurship” held on 29 July 2022, organised by the MHRD’s Innovation Cell, AICTE, MOE’s IIC and Don Bosco Institute of Technology IIC, Mumbai.
- Umer Rafique Shaikh (TE) represented the institute in the Zonal Basketball Tournament organised by University of Mumbai on 09 October 2022 and Conquer 2023 Basketball Tournament organised by NMIMS on 17-19 March 2023.
- Umer Rafique Shaikh (TE) participated in the conference on Sustainability Inquiry and Investigation of United Nations Sustainable Development Goal 06 from 4-6 January 2023 jointly hosted by Vidyavardhaka College of Engineering, Mysuru and IUCEE Foundation.
- Umer Rafique Shaikh (TE) was selected as a Volunteer for Eu-Reka 22, the flagship event of IEEE Pune Section.



- The team consisting of Mustansir Chittalwala, Shafik Shaikh, Girish Sangare (SE-EXTC), Aveesah Siddiqui (SE-Comp) secured the Second Prize in the Competition on “Designing Website for Solo Women Adventure Travel” organised by IEEE DBIT Chapter on 16 March 2023 under Colosseum 2023.
- Winners of HAM Radio Workshop and Fox Hunt conducted by the Dept. of Electronics & Telecommunications Engg. IEEE in collaboration with IETE on 31 March 2023 and 01 April 2023 in DBIT:
 - 1st Rank: Shivam Sharma, Pooja Verma (TE)
 - 2nd Rank: Satyam Shukla, Gouresh Sankhe and Shivraj Shetty (T.E.)
 - 3rd Rank: Nitish Chavan, Jignesh Bhandi, Rakshita Khantwal, Kshtij Bare (TE)
- Participants of 17th Aavishkar Inter-Collegiate Research Convention (Zonal Round) Engineering & Technology Category (UG Level) organised by the University of Mumbai at Shah and Anchor Kutchhi Engineering College, Mumbai on 23 December 2022:
 - Nanaware Shreyas Sanjay, Dmello Russel Joachim, Kumar Sanskar Praful, Sakshi Kaveri (TE) presented a research project titled “Automatic PCB Driller”.
 - Waghmare Abhishek Manik, Varshney Lovely, Sharma Divya, Pansare Dhanshree Prakash (TE) presented a research project titled “Score Control Watch”.
 - Shaikh Umer Rafique, Khantwal Rakshita Rajeev, Rao Adarsh Jaishankar, Sankhe Gouresh Vikas (TE) presented a research project titled “Bosco Grip Kart”.
- Adarsh Rao, Hafizi Mohammed Bazaid, Pooja Verma, Sakshi Kaveri, Sanskar Kumar, Vaishnav Nadar, Zoya Shaikh (TE) completed the 10 hours online Soft Skills Training on Interview Readiness organised by NPTEL from 17-21 January 2023.
- Zoya Shaikh, Kajal Sathe, Shreeya Pimple, Nidhi Kamble (TE), Chaitanya Dhangar (SE) attended the Workshop on “Why Women Deserve Better Designs?” on 16 March 2023 during the DBIT Annual Technical Festival Colosseum 2023.

- Kajal Sathe, Needhi Kamble (TE) received a Volunteer Appreciation Certificate in recognition of her dedicated service in various activities throughout the year 2022-23.
- Shreyas Nanaware (TE) participated in the Robotics Workshop conducted by IETE-DBIT-ISF as part of the DBIT Annual Festival - Colosseum on 13-14 March 2023.
- A total of 68 students participated in the HAM Radio Workshop and Fox Hunt conducted by the Dept. of Electronics & Telecommunications Engg. IEEE in collaboration with IETE on 31 March 2023 and 01 April 2023 in DBIT.
- Kajal Sathe, Shreeya Pimple, Needhi Kamble, Hafizi Mohammed Bazaid (TE) and Chaitanya Dhangar (SE) attended the Workshop on "Career in HVAC Industry" conducted by Daikin Japanese Institute of Manufacturing Excellence on 13 January 2023.
- Yash Garje, Pooja Kadam (SE) were Resource Persons for the "Robo-Wars Workshop" organised on 13-14 March 2023 during Colosseum 2023.
- Chaitanya Dhangar (SE) received a Certificate of achievement for successfully developing and deploying CAN-SAT at the CAN-Satellite Workshop conducted by Black Hole Space Tech at DBIT on 13-14 March 2023.
- Annanya Zadbuke and Khushi Shetty (SE) attended the IEEE Bombay Section's Student, Young Professionals, Women-In-Engineering And Life Member Congress 2023 (IB-SYWLC 2023) during 23 - 25 June 2023.



STUDENTS ACHIEVEMENT DURING HYSTERIA '23 - ANNUAL CULTURAL & SPORTS FESTIVAL AT DON BOSCO COLLEGE, KURLA.



- Anuj Dhumal (TE) secured First Place in the Carrom Singles (Boys) Event and Third Place in Carrom Doubles.
- Umer Shaikh (C), Pratham Amare, Rushikesh Gosavi, Jignesh Bandi, Kshitij Bare (TE), Nikhilesh Tuma, Saud Khan, Faiz Chougule, Prathamesh Tadas, Mayur Sonar (SE) secured First Rank in Box Cricket.
- Kajal Sathe (TE) secured Second Rank in Javelin Throw (Girls).
- Gouresh Sankhe (TE) secured Third Rank in Tug of War (Boys).
- Needhi Kamble secured Third Rank in Discus Throw (Girls).
- Disha Maggu, Needhi Kamble, Pranjali Rawal, Kajal Sathe (TE) and Khushi Shetty, Annanya Zadbuke, Suhani Sawant, Palak Tiwari, Mayuri Kadam (SE) secured Third Rank in Throwball.
- Needhi Kamble, Kajal Sathe, Pranjali Raval, Rakshita Khantwal (TE), Suhani Sawant, Ananya Zadbuke, Palak Tiwari, Khushi Shetty (SE) secured Second Rank in Volleyball.



GUEST LECTURES

SR. NO.	TOPIC	RESOURCE PERSON	ORGANISATION	DATE
1	Smart Study and Career	Mr. Sushilkumar Hate	Proprietor, Improval Associates, Mumbai	12-Sep-22
2	Sensors and their Industrial Applications	Mr. Abhay Phansikar	Director, Azilen Technologies	14-Sep-22
3	Basic Aspirations and Goal-Setting	Dr. Minirani S.	Mukesh Patel School of Technology Management & Engineering, Mumbai	15-Sep-22
4	Organ Donation - A Social Responsibility	Dr. Ashwini Jadhav	Professor - Anatomy, Govt. Grant Medical College, Mumbai	16-Sep-22
5	Introduction to TensorFlow	Dr. Rishikesh Tambe	Amrutvahini College of Engineering, Sangamner	26-Sep-22
6	MEMS in IoT	Dr. Nitin Kale	Nanosniff Technologies Pvt. Ltd.	21-Oct-22
7	Session on Goal Setting	Ms. Lydia D'Souza	Don Bosco Center for Learning, Mumbai	26-Sep-22
8	Demonstration on "To Start and Run a 3 Phase Induction Motor" for the FE Students	Mr. Swapnil Gavali	Don Bosco ITI	05 & 09 Jan 2023
9	Being Person of Values	Rev. Fr. Nelson	Campus Minister, Don Bosco Center for Learning, Mumbai	20-Jan-23
10	Ergonomics for the Work Desk	Dr. Ketaki More	Physiotherapist, Founder & Head of Operations- Physiorelieve	24-Jan-23
11	College to Corporate Life	Mr. Kundan Khanolkar	Vice President, J.P. Morgan Chase	06-Mar-23

INDUSTRIAL VISITS ORGANIZED FOR STUDENTS

- Visit to Mechatronics and Automation Lab at St. Joseph Industrial Training Institute, DBCL Campus, Kurla(W), Mumbai on 10 October 2022 for T.E. students



- Visit to GMRT, Narayangaon, Pune on 27-28 February 2023 for T.E. students



ALUMNI INTERACTIONS AND PEER LEARNING

Interactions with the alumni are organised with the purpose of fostering connections between the current students and successful alumni, thereby providing an opportunity for knowledge sharing, networking and mentorship. Such interactions facilitate meaningful exchanges and inspire students to strive for excellence in their chosen fields and offer ongoing support and guidance to the students as they embark on their professional journeys.

SR. NO.	TOPIC	ALUMNUS SPEAKER	DATE
1	Career Opportunities in Defence Services	Capt. Calvin Dsouza (Alumnus 2017 Batch)	04-Aug-22
2	Today's Integration of Analog and Digital through VLSI	Mr. Hansel D'Silva (Alumnus 2013 Batch), Achronix Semiconductor Corporation, India	13-Sep-22
3	Opportunities for Indian Students in Taiwan for Internships & Higher Studies	Ms. Nidhi Borhade (Alumnus 2020 Batch)	12-Oct-22
4	Ki-CAD Open Source Electronic Design Automation (EDA) Tool	Ms. Lovely Varshney (TE) & Mr. Adarsh Rao (TE)	08-Dec-22
5	Deep Learning and Career Opportunities	Ms. Heera Kesavan (Alumnus 2016 Batch), Consultant at HCL Technologies	23-Mar-23

MINI PROJECT EXHIBITION

The Department organised an Exhibition of the SE and TE (EXTC) students' projects on 14 November 2022 where the students displayed their projects with great zeal and enthusiasm. The mini-projects exhibition provided an excellent platform for the students to showcase their creative and technical skills, and to exchange knowledge with a diverse audience. The event celebrated innovation, collaboration and the application of theoretical knowledge to practical solutions.

ELECTRONIC CIRCUIT DESIGN CONTEST

Electronic Circuit Design Contest was organised by Dr. Sudhakar Mande for the SE (EXTC) students on 22 September 2022 as a part of activity based learning. The contest provided a platform for participants to showcase their skills, creativity, and technical prowess in designing and implementing innovative electronic circuits. The contest challenged participants to think critically, apply their knowledge of electronics, and overcome practical design and implementation challenges.

The winners of the contest were:

Pooja Kadam, Rohit Mali, Aditya Nurbude, Sumith Kumar, Mrunal Supukar.

INTERNATIONAL YOGA DAY

Ms. Pratibha Dumane conducted a session on Mindfulness and Physical Well-being for the staff and students on 21 June 2023, the International Yoga Day.

The event aimed at promoting the practice of yoga as a means to enhance the mental and physical health among participants. The event featured a combination of breathing exercises and workouts, face yoga and meditation.



INTERNSHIP



SR. NO.	NAME OF STUDENT	ORGANISATION
1	Umer Rafique Shaikh	STEM Programme conducted by DBIT and supported by IEEE Bombay Section (Outreach Initiative)
2	Russel Joachim D'mello	
3	Premkumar Pradip Singh	
4	Ananya Zadbuke	
5	Dibyarupa Pradhan	
6	Jaipreet Singh Saini	
7	Needhi Vijay Kamble	
8	Benish Christo Louis	
9	Gouresh Vikas Sankhe	
10	Aditya Pravin Thakare	
11	Lovely Varshney	
12	Adarsh Jaishankar Rao	STEM Programme conducted by DBIT and supported by IEEE Bombay Section (Outreach Initiative)
13	Deep Patel	
14	Shruti Gokhale	
15	Hasan Ali Jalil Ahmed Dalal	Theta Controls Pvt. Ltd., Pune
16	Lovely Varshney	
17	Gouresh Sankhe	
18	Adarsh Rao	
19	Gouresh Sankhe	Selec Controls Pvt. Ltd., Navi Mumbai
20	Lovely Varshney	
21	Shivam Sharma	
22	Adarsh Rao	
23	Abhishek Waghmare	
24	Simran Kot	
25	Shreeya Pimple	
26	Raveena Pitale	Social Media & Digital Marketing Internship, Kenilworth Global Consulting, USA
27	Benish Christo	Air India Engineering Services Limited, Western Region, Mumbai

IEEE-DBIT STUDENT BRANCH 2023 CORE COMMITTEE

SR. NO.	POSITION	HEAD	JOINT-HEAD
1	Chair	Umer Shaikh (TE)	
2	Vice Chair	Hasan Ali Dalal (TE)	
3	Secretary	Dibyarupa Pradhan (SE)	Kartik Dandelia (FE)
4	Treasurer	Ananya Zadbuke (SE)	Suhani Sawant (SE)
5	MTT-S Chair	Simran Koparkar (TE)	
6	SIGHT Chair	Prem Singh (SE)	Sarika Galphade (TE)
7	RAS Chair	Rutvik Patil	Mohd. Raza
8	Reporting	Needhi Kamble (TE)	Aditya Jadhav (SE)
9	Publicity	Rishabh Giri (TE)	Pooja Verma (TE)
10	Social Media	Sakshi Morey (TE)	Dheeraj Dalvi (FE)
11	Webmaster	Sanjeet Prajapati (SE)	Raj Mohite (SE)
12	WIE	Zoya Shaikh (TE)	

INDUCTION PROGRAM OF IEEE DBIT STUDENT BRANCH CORE TEAM 21-JULY-2022



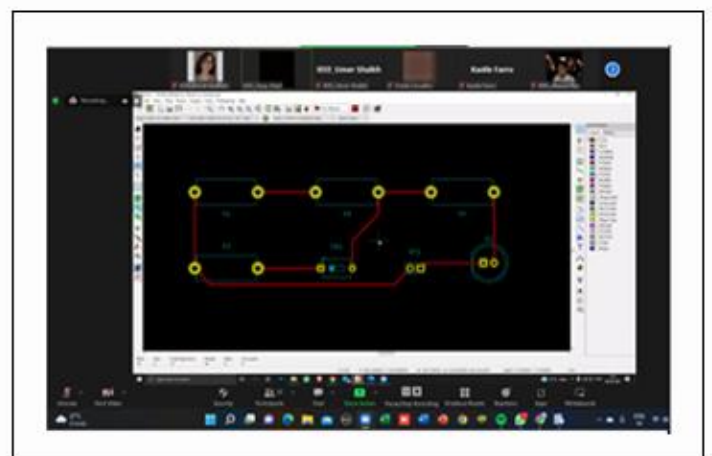
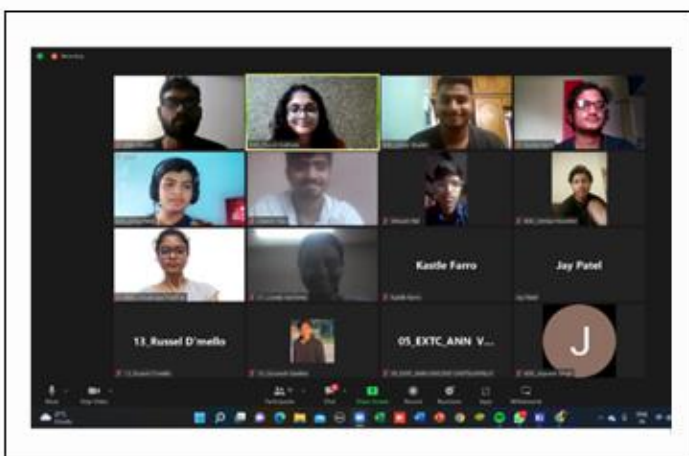
WORKSHOPS

- An online session on “PCB Layout Using KiCad” was conducted on 09 August 2022 by Mr. Deep Patel, IEEE DBIT Web-Graphics Head.
- Trainers from Black Hole Space Tech, Bangalore conducted “CanSat Designing and Launching Workshop” on 13-14 March 2023 by IEEE DBIT MTT-S Student Chapter.

IEEE DBIT-SB and Participants of the workshop with Prof. Elangovan and Trainers of Black Hole Space Tech



Online Workshop on KiCAD



- Workshop on “Why Women Deserve Better Designs?” by Dr. Prasanna Nambiar was organised by IEEE DBIT WiE Student Chapter, on 16 March 2023.

Participants of
“Why Women Deserve Better Designs?” Workshop



HAM Radio Workshop



Participants with Team MARI



OUTREACH PROGRAM BY IEEE DBIT STUDENT BRANCH

TechWorld, an IEEE Bombay Section sponsored STEM program was conducted in Karthika High School and Junior College on 09 September 2022 and Holy Cross School, Kurla, Mumbai on 10 September 2022.



INVITED TALKS

SR. NO.	TOPIC	SPEAKER	DATE
1	Final Year Project Selection	Mr. Abhay Phansikar, Director of Azilen Technologies, IMM past Chair, IEEE Bombay Section	13-Sep-22
2	Engineer's Day organized by IEEE DBIT WiE Student Chapter	Dr. Prasanna Nambiar, Principal, DBIT	15-Sep-22
3	Benefits of IEEE Membership	Mr. Sandeep Mishra, Vice Chair, IEEE Membership Development Committee, IEEE Bombay Section	21-Oct-22



INVITED TALKS

Mr. Abhay Phansikar Guiding Students on Selection of Final Year Project



IEEE Membership Benefits by Mr. Sandeep Mishra



IETE - DBIT - ISF STUDENT CHAPTER

IETE-DBIT-ISF CORE COMMITTEE 2023



Chairperson



Vice-Chairperson



Secretary



Advisor



Administration & Finance



Technical Heads



Creative Heads



Web-Development Heads



Publicity Heads



Documentation Heads



Event Heads



Logistics & Operations Heads

IETE - DBIT - ISF STUDENT CHAPTER

SR. NO.	POSITION	NAME OF STUDENT
1	Chair	Benish Christo (TE)
2	Vice Chair	Disha Maggu (TE)
3	Secretary	Sarika Galphade (TE)
4	Advisor	Rakshita Khantwal (TE)
5	Event Head	Gouresh Sankhe (TE) and Palak Tiwari (SE)
6	Technical Head	Sanskar Kumar (TE) and Prem Kumar Singh (SE)
7	Web Development	Shreyas Nanaware (TE) and Aditya Chauhan (SE CE)
8	Publicity Head	Divya Sharma (TE) and Mrunal Suplekar (SE)
9	Creative Head	Deep Patel (TE) and Mayuri Kadam (SE)
10	Documentation Head	Sakshi Kaveri (TE) and Diya Rai (SE)
11	Finance and Administration	Aditya Saju (TE) and Prathamesh Tadas (SE)
12	Logistics and Operation	Umer Shaikh (TE) and Kris Benson (SE Mech)

EVENTS UNDER OSCILLATIONS 2023

Talk on “Technical Paper Writing”
by Dr. Sudhakar Mande on 10th April 2023



Poster Competition on 13th April 2023



OSCILLATIONS 2023 WINNERS

First Prize	Second Prize
<p>Topic: FPGA based PLC for Industrial Automation System</p>	<p>Topic: Design and Implementation of UART using Verilog and FPGA</p>
<p>Team Members: Abhishek Waghmare, Adarsh Rao, Lovely Varshney, Gouresh Sankhe, Jignesh Bhandi, Kshitij Bare, Omkar Munde, Aditya Saju</p>	<p>Team Members: Rakshita Khantwal, Umer Shaikh, Shruti Gokhale, Nitish Chavan, Disha Maggu, Yash Sonavane, Rohit Gupta, Suraj Kumar</p>

COMPETITIONS

Robo War and Best Robot Design on 15 March 2023 (Colosseum 2023)



WORKSHOPS

- Drone Making Workshop on 01-02 September 2022 by Drona Aviation in collaboration with Eduvance Technologies and IETE Mumbai.



- Workshop on "Embedded C" for T.E. EXTC students by DBIT Alumnus Mr. Nilesh Sharma, Selec Controls on 19 September 2022.
- Workshop on Ki Cad by IETE students for S.E. EXTC students on 30 August 2022.



- Pre-Colosseum Robot Making Workshop on 13-14 March 2023.



INVITED TALKS

Industry Insights: Projects to Products by Mr. Ravi Hedau, Vice President, Design and Development, Eclipse Prism Medical Devices Pvt. Ltd.



Industry Insights: IP Network Performance and Testing by Mr. Kartik Parikh, CEO & MD, Fastech Telecommunications



ACTIVITIES JOINTLY ORGANISED BY IEEE-DBIT and IETE-DBIT-ISF

HAM Radio Workshop by trainers from Mumbai Amateur Radio Institute (MARI) was organised by IEEE DBIT and IETE DBIT on 31 March 2023 & 01 April 2023.



SYMPOSIUM ATTENDED BY FACULTY MEMBERS



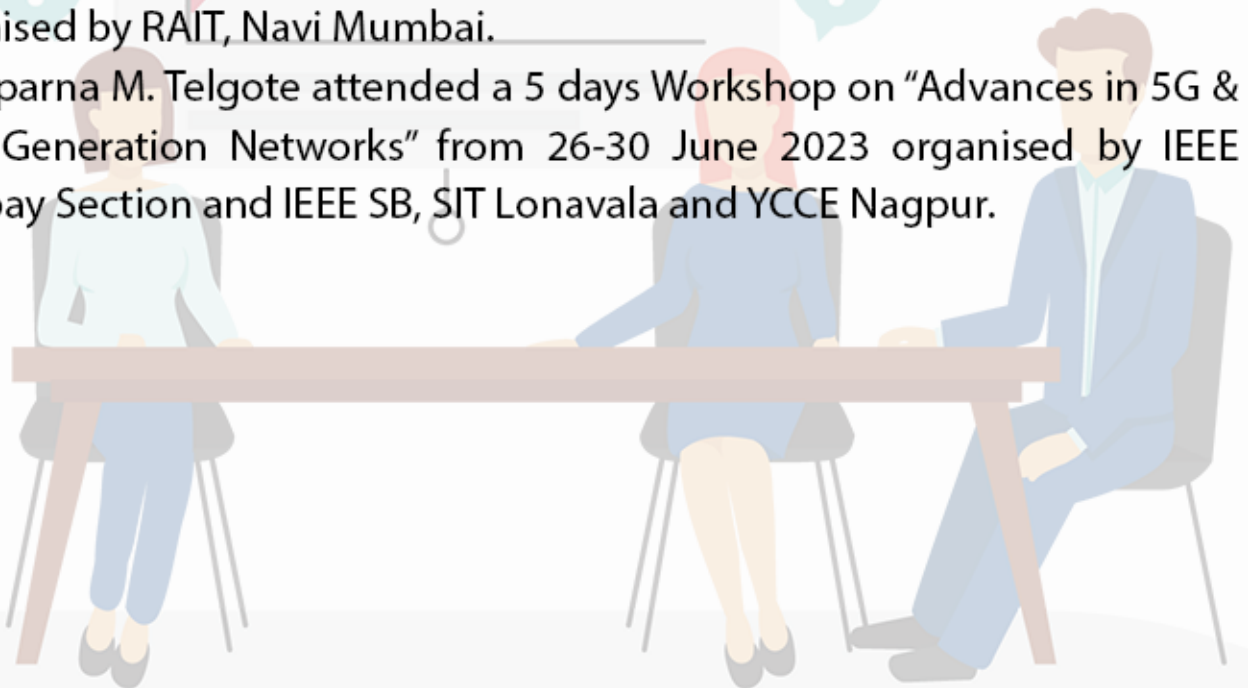
Ms. Pratibha Dumane and Ms. Namita Agarwal attended a Two Days National Symposium on "Academic Challenges Towards Implementation of NEP in HEI's" organised by Lokmanya Tilak College of Engineering, Navi Mumbai in association with National Assessment and Accreditation Council, Bengaluru on 29-30 September 2022.

FACULTY DEVELOPMENT PROGRAMS (FDPs) / STTPs / WORKSHOPS ATTENDED BY FACULTY MEMBERS

- All department faculty members attended a Faculty Development Programme on “Professional Ethics” by Ms. Devyani Rosario, President, Maharashtra Marketing Council, Women’s Indian Chamber of Commerce & Industry (WICCI) organised in DBIT on 17 September 2022.
- All department faculty members attended a Faculty Development Programme on “Conservation” - a session by Mr. Mani Ramchandran, Conservationist and Wildlife Enthusiast on 01 October 2022 followed by a session by Mr. Ashok Kalbag on “Vigyanashram” renowned for using sustainable technology to support underprivileged sections of the society.
- All department faculty members attended a Faculty Development Programme on “Basic Quality Tools” conducted by Mr. Santosh Khadagade, National Center for Quality Management on 15 October 2022.
- Dr. Sudhakar Mande and Dr. Ashwini Kotrashetti attended AICTE-ATAL sponsored two week Faculty Development Program on “Institutional Building Leadership for Academic Excellence in Higher Education” (Online+Offline) from 5th December-16th December 2022 organised by Sardar Patel Institute of Technology, Mumbai.
- Ms. Pratibha Dumane attended the ISTE approved 6-day STTP/FDP Programme on “Natural Language Processing and its Applications” during 9-14 January 2023 organised by Xavier Institute of Engineering, Mumbai.



- Ms. Pratibha Dumane attended the IP Awareness Training Program organised by Intellectual Property Office, Government of India, Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trade, Office of the Controller General of Patents, Designs and Trademarks on 08 February 2023 under National Intellectual Property Awareness Mission.
- Ms. Namita Agarwal attended Two Days National Symposium on “Academic Challenges Towards Implementation of NEP in HEI's” on September 29 and 30, 2022 organised by Lokmanya Tilak College of Engg in association with NAAC, Bengaluru.
- Ms. Aparna M. Telgote attended a 5 days Workshop on “Internet of Things” from 4-9 July 2022 organised by TIH Foundation, IIT Mumbai.
- Ms. Aparna M. Telgote attended a 5 days Workshop on “End to End System Design for IoT” from 13-17 February 2023 organised by VJTI Matunga.
- Ms. Hemalata Mote attended one week National FDP on “Augmented & Virtual Reality” in association with IEEE Computer Society, Pune from 20-24 February 2023 organised by Dept. of Information Technology, Vishwakarma Institute of Information Technology, Kondhawa, Pune.
Ms. Aparna M. Telgote attended a 5 days STTP program on “Recent Trends in High-Speed Communication” from 27 June 2023 to 02 July 2023 organised by RAIT, Navi Mumbai.
- Ms. Aparna M. Telgote attended a 5 days Workshop on “Advances in 5G & Next Generation Networks” from 26-30 June 2023 organised by IEEE Bombay Section and IEEE SB, SIT Lonavala and YCCE Nagpur.



WEBINARS ATTENDED BY FACULTY MEMBERS



- Ms. Pratibha Dumane attended a webinar on “Emerging Risks & Industry Trends in the Growing Cyberspace” organised by CyberFrat on 18 September 2022.
- Ms. Namita Agarwal attended a webinar on “5G: Myths and Challenges” on 09 July 2022, organised by

Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.

- Ms. Pratibha Dumane attended a webinar on “Simplifying IPR and Patent Filing” on 26 November 2022 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Pratibha Dumane attended a webinar on “Data Analytics for Business Value Maximization” on 24 December 2022 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Pratibha Dumane attended a webinar on “Robotics Process Automation” on 21 January 2023 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Namita Agarwal and Ms. Pratibha Dumane attended a webinar on “User Experience Considerations for Building Modern Apps” on 04 February 2023 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Pratibha Dumane attended a webinar on “Changing Role of HR Heads for Gen Z and Millenials” on 11 February 2023 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Pratibha Dumane attended a webinar on “Business Etiquettes - the Ever-Evolving Need” on 04 March 2023 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.

- Ms. Namita Agarwal attended a webinar on “How to Educate Young People in Self Regulation and the Responsible Use of Technology” on 16 February 2023 organised by Youth Ministry Department, Salesians of Don Bosco, Rome.



- Ms. Hemalata Mote attended a webinar on “Think , Check & Submit” on 09 March 2023 organised by Association of Indian Universities in collaboration with The International Association of Scientific, Technical and Medical Publishers.
- Ms. Namita Agarwal attended a webinar on “Simulink and Simscape Electrical for Research and Training” organised by Mathworks on 25 March 2023.
- Ms. Pratibha Dumane attended a webinar on “Metaverse: A New Frontier of Digital Interaction” on 29 April 2023 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Namita Agarwal attended a Webinar on “ChatGPT and We” on 13 May 2023, organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.
- Ms. Pratibha Dumane attended a webinar on “Generative AI” on 20 May 2023 organised by Bharati Vidhyapeeth’s Institute of Computer Applications and Management, New Delhi.



SYNERGY - EXTC DEPARTMENT DAY

The EXTC Department Day - SYNERGY - was a memorable event organised on 29 September 2022 and coordinated by Dr. Satishkumar Chavan. It celebrated the achievements of the academic toppers, and also the toppers in various sports events. The cultural programme provided a platform for the students to showcase their artistic talents, adding vibrancy to the event. The event fostered a sense of pride, unity and motivation among the students and faculty.



INNOVEX 2023 PRIZE WINNERS

Rank I	Rank II	Rank III
Project: Design and Implementation of UART using Verilog and FPGA	Project: Wi-Fi Enabled Matrix Notice Board Display	Project: Industrial based PLC using FPGA board
Team Members: Disha Maggu Nitish Chavan Rakshita Khantwal Rohit Gupta Shruti Gokhale Suraj Kumar Umer Shaikh Yash Sonavane	Team Members: Russell D'mello Sakshi Kaveri Sanskar Kumar Shreyas Nanaware Kajal Sathe Darshan Kadlag Anto Ridon Vaishnav Nadar	Team Members: Gouresh Sankhe Adarsh Rao Lovely Varshney Abhishek Waghmare Kshitij Bare Jignesh Bhandi Omkar Mundhe Aditya Saju

