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REFLECTIONS THE EXTC TIMES

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INDEX

Title	Pg. No.
Message from the Department	1
Feats of the Department	2
• Doctoral Dissertation	2
• IdeaThon 2023	2
• Avinya 2023	3
• CIIA Exhibition	4
Workshop on LATEX	5
Tinkerer's Lab Workshops	6
Academic Results	7
Placement Activities	7
• Placement Statistics	8
Faculty Achievements	9
• Patent	9
• GOLC Award 2023	9
• Research Papers Published	10
• Workshops Conducted/Attended	11
• Orientation Programs Conducted/Attended	13

INDEX

Title	Pg. No.
• Research Forum Activity	13
• Alumni Interactions	14
• Miscellaneous Activities	14
Student Achievements	15
• Zealous Philomaths	15
• Industrial Visits	15
• Scholarships	16
• Workshops Attended	17
• Internships	17
• Second Year Achievements	19
• Third Year Achievements	21
• Final Year Achievements	25

MESSAGE FROM THE DEPARTMENT

Dear Students,

For Nation building, Education is the most important investment in the field of Human Resource Development. We at VESIT, as a whole are proud to shoulder this responsibility. Our persistent endeavor is to bring to life the world beyond the classroom, beyond the walls of the college & beyond all physical boundaries. It is a known fact that technological development brings a considerable improvement in the quality of human life.

Therefore, we are committed to creating young, dynamic Engineers and Entrepreneurs.

Albert Einstein rightly said, "Education is not the learning of the facts, but the training of the mind to think". Hence, we nourish physical, intellectual, social and spiritual aspects of the students along with the formal training in Engineering so that the students face the professional and social world competently.

Therefore, students who are thinking of going for placements and opting for IT jobs after their graduation should also think of going for Civil Services. The youth today should think of making a career as a policy maker (Bureaucrat) for the betterment of the nation and serving the people. If you are making the big decision to take Civil Services exams, no matter how intelligent you are, you have to put in the hours, you have to put in the hard work. Based on the current situation, it can be observed that the mass's mood has been Engineering, especially when it comes to cracking the IAS examination. Upon analyzing the top IAS pass-outs in the last few years, it can be seen that those with an Engineering background have dominated the IAS exam. It has been found that candidates with an Engineering subject have a high success rate. Engineering seems to be the stream of choice for those who want to crack the exam and desire to be among the top-ranking pass-outs for the various IAS positions.

Irrespective of what the previous trend has revealed & the present trend suggests, passion & individual interest for the IAS examination make all the difference. The UPSC aspirants should be intensely passionate about the IAS exam. Girls are more inclined towards the Civil Service Examination as compared to boys. The passing percentage for girls is also higher in this exam. Out of 933 candidates, 613 men and 320 women have qualified for the Civil Services Examination 2022. Out of the top 25 candidates, 14 are women. The first four rank holders are all women. The Civil Services Examination is conducted annually in three stages i.e. Preliminary, Main and Interview - by the UPSC to select officers of the Indian Administrative Service (IAS), Indian Foreign Service (IFS) and Indian Police Service (IPS) among others.

Therefore we urge students to be disciplined and sincere in the preparations to crack the Civil Services Exam. We also wish to add in our message a saying which all UPSC Aspirants should follow...

There is No Substitute to Hard Work --- Thomas Edison

Mr. Shobhit K. Khandare,

(Assistant Professor, Electronics and Telecommunication (EXTC) Department, VESIT)



FEATS OF THE DEPARTMENT

DOCTORAL DISSERTATION

The Department of Electronics and Telecommunications (EXTC) applauds **Dr. Rasika Naik**, Assistant Professor, EXTC, on her momentous procurement of completing her Ph.D. degree from **Sir Padampat Singhania University, Udaipur**, in **January 2023**. Her thesis, entitled '**Design and Implementation of Chaos-based Image Encryption System and its Cryptanalysis**', focuses on a 6-digit OTP generation technique based on a B-exponential chaotic map, along with a precision-based pseudo-random binary sequence generator (PRBS) generator. The Pseudo-random number generator based on the chaotic maps method is the backbone for building encryption algorithms, and her Ph.D work covers implementation of the said proposed method on Raspberry Pi, design of Encryption algorithm based on proposed Pseudo-Random binary sequence generator and its cryptanalysis.



Dr. Rasika Naik

IdeaThon-2023

In association with the Institution's Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC), the Project Team of the **EXTC Department** organized '**IdeaThon-2023 (Idea Development Execution Application)**', an Intra-college innovative Project Idea competition on **8th April 2023**, specifically for the **Second and Third year students**. The competition aimed to encourage the spirit of innovation and harness the enormous potential of students to think big and dream of futuristic ideas. **Dr. Ramesh Kulkarni** (Principal, Atharva College of Engineering, Mumbai), **Mrs. Smita Jangale** (Ex Deputy HoD, Department of Information Technology, VESIT), **Mrs. Shoba Krishnan** (Ex HoD, Department of Electronics & Telecommunication VESIT), were the judges for the competition. Cash prizes were provided to the winners as tokens of appreciation.



Poster for 'IdeaThon 2023'

The team comprising **Atharva Dharmadhikari** (D9B), **Renu Dharamkar** (D9B), **Anuraag Rao** (D9B), and **Aman Yadav** (D9B), under the guidance of **Mr. Mrugendra Vasmatkar**, secured the **first prize**, earning **Rs. 1500**, for their project titled **“Bhartiya Bhasha Toy Sanganak”**. Their project involved the development of a toy-based system that facilitates children's learning and interaction with Indian languages in an engaging and enjoyable manner.



Collage of IdeaThon 2023 closing ceremony Winners (L-R: Aman Yadav, Mr. Mrugendra Vasmatkar (Mentor), Renu Dharamkar, Anuraag Rao, Atharva Dharmadhikari, Dr. Ramesh Kulkarni (Judge)) receiving certificates and cash prize

AVINYA 2023

In association with the **Institution's Innovation Council (IIC) & Internal Quality Assurance Cell (IQAC)**, the **EXTC Department** organized **‘Avinya 2023’**, an intra-college project competition organized for the final year students to exhibit their innovative and worthwhile projects. The competition was celebrated as Technology day on **20th March 2023**. Avinya, meaning Innovations, was a perfect platform to analyze the real-world problems encouraging the students to think out of the box with advanced and novel approaches leading to innovations or fortifying the existing solutions. It gave an opportunity for students to present their innovative projects, highlighting advancements in various fields of technology, the projects encompass a diverse range of cutting-edge ideas.

The exemplary final year projects were evaluated by a panel of senior faculties of other departments, including **Dr. Manoj Sabnis** (Associate Professor, Information Technology Department), **Dr. M. D Patil** (Associate Professor, Dept. of Automation & Robotics), **Dr. T. Rajani Mangala** (Professor, Electronics Department), who recognized the exceptional talent and creativity displayed by the students. The results were declared on that day itself after the exhibition got over which were as follows:

Under the guidance of **Dr. Chandan Singh Rawat**, the group of students including **Yash Bhise, Hridesh Kamal, Tanya Dubey, and Sagar Pujari**, exhibited their project **“Detection of Heart Rate using External Camera”**. The team successfully addressed a pressing challenge in the domain, offering a groundbreaking solution that entitled them as **Winners**, by securing the **First Position** in the competition.

The **First position** was shared by the group of students including **Adarsh PS, Rohan Giri, Bhavesh Khati, and Shripad Kulkarni**, under the guidance of **Dr. Nandini Ammanagi**. The team worked on **“IoT Based Wireless Cloud Printer”** to solve the problems in the printing and photocopying industry by designing a completely automated and secured system.



L-R: Hridesh Kamal, Tanya Dubey, Yash Bhise, Mrs. Manisha Chattopadhyay, Dr. Chandan Singh Rawat



L-R: Rohan Giri, Adarsh PS, Dr. Nandini Ammanagi (Mentor), Shripad Kulkarni, Dr. Chandan Singh Rawat

Under the guidance of **Dr. Rasika B. Naik**, the team of **Akshata Deshpande, Shreya Dhamane, Gauri Khanvilkar**, and **Gunjan Surekha** exhibited their project “**Smart Mirror**” which helps make daily routine more efficient and interactive. The team spirit and unique idea led them to bag the **Second Position** in the competition.

The **Second position** was shared by the team of **V. Anuparvathi, Vasudha Sasikumar, Neha Makattil** and **Varun Arya**, under the guidance of **Mr. Shobhit Khandare**. They exhibited their project “**Real-Time Posture Detection and Correction using Electromyography and ML**”, which was a real time posture detection and correction system with yoga recommendations.

Under the guidance of **Mrs. Ashwini Sawant**, the team “**TECH CLAN**” including **Arunkumar Mariappan, Heeral Chumber, Riddhi Joshi**, and **Farheen Khan** exhibited their project “**Hydra Base Farming**”. The project represented a significant step forward in agriculture, offering a sustainable and efficient approach to crop cultivation and the team won the **Third Position** in the competition.



L-R: Dr. Rasika B. Naik (Mentor), Akshata Deshpande, Dr. Chandan Singh Rawat



L-R: Mrs. Ashwini Sawant (Mentor), Heeral Chumber, Riddhi Joshi, Farheen Khan, Dr. Chandan Singh Rawat, Arunkumar Mariappan



L-R: V. Anuparvathi, Neha Makattil, Vasudha Sasikumar, Dr. Chandan Singh Rawat

CIIA EXHIBITION

Creative Ideas & Innovation in Action (CIIA) exhibition and competition was organized by Marshalls Group at **Nehru Centre, Worli**, Mumbai from **1st - 3rd February 2023** with an aim to create a mind-set & spread a culture of innovations among the youth and give them a market for their innovation for funding. CIIA provides a platform on which the Innovation Creators, potential users of these Innovations, and the Innovation Promoters meet on one Platform to explore its utility in Industry, Enterprises, Startups, Research Institutions, Defense, Space, and other related fields.

Professor Dr. Nadir N. Charniya was the coordinator for CIIA from VESIT. Total 22 projects and Ideas were submitted by VESIT for the exhibition. Out of 22 total 07 projects were approved by CIIA Selection Committee. The selected projects were exhibited at Nehru Centre, Worli Mumbai. Out of seven shortlisted projects from VESIT **3 projects** were from the EXTC Department. The Innovations Exhibition by CIIA was one such platform for creative ideas to take flight and flourish. The teams selected from EXTC for the exhibition:

- **'Image to Text and Speech based Learning Aid for Children'** - Mentored by **Dr. Nadir Charniya**
- **'Smart Mirror'** - Mentored by **Dr. Rasika Naik**
- **'Know Your Posture'** - Mentored by **Mr. Shobhit Khandare**



L-R: Pratham Angre, Ahona Chattopadhyay, Dr. Nadir Charniya (Mentor), Janhavi Bhutki, Ameya Dikshit



L-R: Gunjan Surekha, Akshata Deshpande, Sreya Dhamane, Gargi Khanvilkar



L-R: Mr. Shobhit Khandare (Mentor), Varun Arya, Neha Makattil, Vasudha Sasikumar, and V. Anuparvathi

WORKSHOP ON LATEX

In association with the Institution's Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC), the Department of Electronics and Telecommunication Engineering organized a workshop on **'LaTeX typesetting technical documents'** on **25th and 28th February 2023**, from 11 A.M to 1 P.M, for the students of the department. **Dr. Chandan Singh Rawat**, Associate Professor, Head, Dept. of EXTC, VESIT, the resource person for the day explained to students how to create a LaTeX article from start to finish. By the end of the workshop, **94 student participants** and **11 faculty participants** were able to write mathematical equations, matrices, etc. using the AMS-LaTeX bundle, load packages to include images, graphics, etc. Overall it was a great learning experience for everyone as the user no longer needs to concentrate on the layout of the documents because LaTeX takes care of all that by itself, resulting in really good looking and cleanly professional documents.



Poster for workshop on 'LATEX'



Dr. Chandan Singh Rawat solving queries of participants

TINKERERS LAB WORKSHOP

- In association with the Institution's Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC), the **Tinkerer's Lab** of the **EXTC** Department, and IEEE-VESIT organized a workshop on **"Prototyping with Raspberry Pi"**. The workshop was conducted in offline mode on Saturdays for three weeks, i.e, **21st January 2023, 28th January 2023** and **4th February 2023** to foster innovation and equip participants with valuable skills. The eminent speakers of the workshop were **Dr. Nadir Charniya**, Vice-President of VESIT-IIC & **Mr. Shubham Madhavi**, Alumni-VESIT, Senior and Junior Technical & Organizing Members of Tinkerer's Lab, EXTC-VESIT - **Atharv Petkar** (D14B), **Shantanu Deshmukh** (D14B), **Alrich Xavier Dsouza** (D14B), **Atharva Dharmadhikari** (D9B), **Harshal Talreja** (D9A). With over 100 participants, The training program was hosted by Senior Organising Member at Tinkerer's Lab EXTC-VESIT, and Faculty Coordinator of Electronics & Telecommunication Department (EXTC) **Mr. Mrugendra M Vasmatkar**, Assistant Professor, EXTC, VESIT, student coordinator **Riya Gorade**. The workshop featured hands-on sessions, interactive demonstrations, and expert guidance. Overall this provided an invaluable opportunity to unlock their creativity and explore the limitless possibilities of this versatile technology.

- In association with the IIC, IQAC, and ISA-VESIT, the Tinkerer's Lab of the EXTC Department, and CoreEL Technologies (I) PVT LTD, Bangalore, organized a Short Term Training Program (STTP) on "Trends in FPGA - Design & Prototyping using VERILOG". The program was organized by **Dr. Nandini Ammanagi** and **Mr. Mrugendra M. Vasmatkar** Assistant Professors, EXTC, VESIT from 2nd January 2023 - 7th January 2023, 10:00 A.M - 4:00 P.M. There were around 33 student participants and 6 faculties from VESIT & different college departments, attending the workshop. The eminent speakers of this training program were **Mr. Prakash Ganesh**, Lead Application Engineer at CoreEL Technologies, Pune, **Mr. Sharan A**, Application Engineer at CoreEL Technologies, Bengaluru, **Mr. Mrugendra M. Vasmatkar**, Assistant Professor & Faculty Advisor Tinkerer's Lab, EXTC-VESIT, **Mr. Gopalakrishnan N**, Assistant Professor & Faculty Advisor ISA-VESIT, and **Mr. Sagar Mhatre**, Assistant Professor, KJSIEIT.



Poster for the workshop on **"Prototyping with Raspberry Pi"**



Collage of photos taken during the Inauguration ceremony & Day 1 of **"Prototyping with Raspberry Pi"** Workshop.



Participants of the workshop

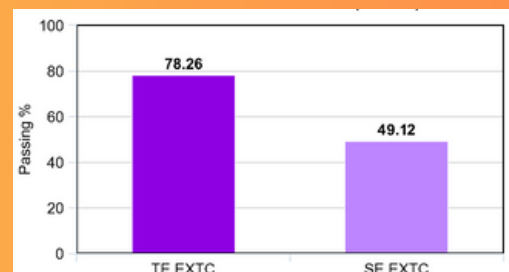


Collage of photos taken of students attending workshop

The program proved to be an immersive experience for participants. This workshop empowered participants to stay at the forefront of this dynamic field and also explore and embrace the exciting advancements in FPGA design and prototyping.

ACADEMIC RESULTS

Winston Churchill once said, “Success is not final, failure is not fatal: it is the courage to continue that counts.” The Third year and Second year students of the EXTC Department have performed satisfactorily well in the examinations in the odd semester and achieved **78.26%** and **49.12%** results respectively. Academic success is a journey, and setbacks can undoubtedly serve as a catalyst for personal growth and achievement.



Academic Result for Odd Semester (2022-23)

PLACEMENT ACTIVITIES

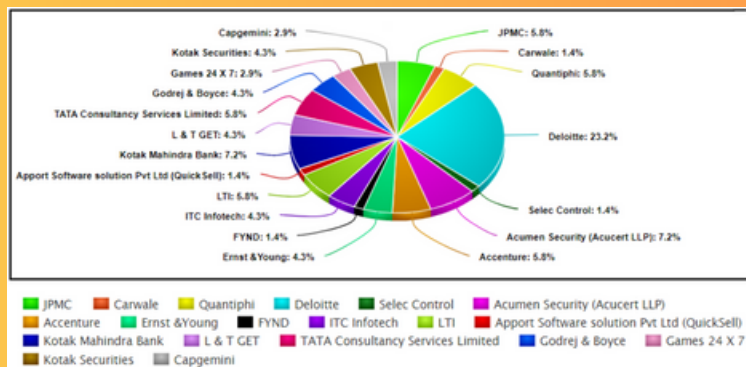
The objective of the Training & Placement Cell is to help students to identify their career goals and provide an edge into the present day competitive job market. The scope of work of GRIN (GET Ready for Industries) extends from organizing Finishing school, Lecture series, IT for Non IT, Share it sessions and preparing students for the final placements. In this regard the placement cell GRIN of the department of EXTC has conducted various activities in the Academic year, 2022-23 for the student to prepare for the placement process. These activities include online **Mock Aptitude Tests (MAT)**, various sessions on Campus Placement: **A winning Strategies, Eligibility, Employability & Resume building, Resume Writing & Skill Set Analysis, Steering the Interviews, Transactional Analysis, Aptitude Training Course (ATC)**.

The details of the activities conducted in the even semester (2022-23) are as follows:

Sr. No.	Date	Time	Topic	Resource Person	Class & No. of students attended
1.	03/12/2022	10:30 am - 11:30 am	Eligibility, Employability and Resume Building	Prof. A. Nagananda	SE (DSE) (20)
2.	03/12/2022	10:30 am - 11:30 am	Mini Project- A Stepping Stone	Prof. A. Nagananda	SE (DSE) (20)

PLACEMENT STATISTICS

In the present era, campus placement holds great importance for students and educational institutes. This academic year, EXTC students are placed in renowned organizations with very good packages. A total of **69** offers from various companies like **JPMC, Deloitte, Accenture, L&T GET, Capgemini, Quantiphi, EY, TCS, LTI, Kotak Securities, Godrej & Boyce**, etc. were given. These include **53 dream job** offers. **23.2%** of the job offers were from **Deloitte**, followed by companies like **Acumen Security**, and **Kotak Mahindra Bank** contributing **7.2%** of the entire placement process.



FACULTY ACHIEVEMENTS

PATENT

- **Mrs. Manisha Joshi** filed for the patent titled '**A function generator embedded with ANN**' (Patent no.: **202321028302**) along with her co-inventors including **Harshala Dalal, Bhavika Methwani, Shubham Verma,** and **Vedha Nayak** on **18th April 2023**. The present invention discloses a system and a method of designing an artificial neural network (ANN) using a Fractional Derivative. More particularly, the present invention relates to the 10 systems and methods designing artificial neural networks using the Caputo Fractional Derivative. The system and method involve the application of Caputo fractional derivative as an activation function to ANN, simulating the neural network and comparing the results with normal log sigmoid activation function.
- **Mrs. Manisha Joshi** filed for the patent titled '**Power-Law type Activation function based Computing System**' (Patent no.: **202321002941**) along with her co-inventors including **Nikhil Oza, Vrithik Nathani, Vishal Prajapati,** and **Saket Bhosle** on **14th January 2023**. This patent gives the description of the Mittag-Leffler function that arises naturally in the solution of fractional order integral equations or fractional order differential equations which provide us with a memory feature in the ANN. To overcome the drawbacks in traditional ANNs, that is to provide more accurate results with minimum iterations for different types of data, the proposal for a neural network involving fractional calculus and the Mittag-Leffler function as the activation function is proposed. The learning rule used for this particular design is the Stochastic Gradient Descent algorithm for a multilayer perceptron.

GOLC AWARD 2023

The **Global Online Laboratory Consortium (GOLC)** is focused on promoting the development and sharing of, and research into remotely accessible laboratories for educational use. As the usage of online experiments gains traction in the educational community, there is increasing interest in developing online labs on a common infrastructure. A unified and interoperable architecture is essential to convert the current tremendous interest for online experiments into an economy of labs that can be efficiently shared around the world.

Dr. Rasika B. Naik received the '**Special Mention**' at the '**GOLC Online Laboratory Award 2023**' for her submission on "**Virtual Lab on Oscillators**" during the '**20th International Conference on Remote Engineering and Virtual Instrumentation (REV 2023) – in Thessaloniki, Greece**', **March 2023**.

RESEARCH PAPERS PUBLISHED

- **Dr. Rasika B. Naik, Parth Rane, Vinghesh Poojari, Niranjana Vajjramusti, and Rohan Bhamre** published “A Review on Automated Waiters” at the ‘11th International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing (ICETET-SIP-23)’, 29th April 2023.
- **Mrs. Manisha Joshi** published “A survey of fractional calculus applications in artificial neural networks” in the ‘International Journal on Artificial Intelligence Review,’ 25th April 2023, Springer Publications.
- **Dr. Nadir Charniya, Ameya Dikshit, Janhavi Bhutki, Ahona Chattopadhyay, and Pratham Angre,** published ‘Image-to-Text and Speech-based Learning Aid for Children’, at the ‘8th International Conference for Convergence in Technology (I2CT) held during 7th - 9th April 2023.
- **Dr. Rasika B. Naik, Gargi Khanvilkar, Akshata Deshpande, Gunjan Surekha, and Sreya Dhamane** published “A review on ‘Smart Mirror’” in the ‘International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET 2023)’, Volume 12, Issue 4, eISSN: 2319-8753, 4th April 2023.
- **Mrs. Ashwini Sawant, Abhishek Bhatia, Avantika Shetty, Nafees Akhter, and Shweta Bhabal,** published ‘IoT powered Smart Stroller’ at the ‘9th IEEE International Conference on Advanced Computing and Communication Systems (ICACCS 2023)’, held at Sri Eshwar College of Engineering, Coimbatore, Tamil Nadu, India on 17th & 18th March 2023, DOI: 10.1109/ICACCS57279.2023.10112742, IEEE Xplore Publications.
- **Mrs. Neeta Chavan, Isha Chavan, Aishvarya Birambole, Risa Samanta, and Saakshi Karkera,** published ‘Comparative Study of Machine Learning Algorithms for Prediction of Polycystic ovary syndrome’ at the ‘9th IEEE International Conference on Advanced Computing and Communication Systems (ICACCS 2023)’, held at Sri Eshwar College of Engineering, Coimbatore, Tamil Nadu, India on 17th & 18th March 2023.
- **Dr. Rasika B. Naik** published “Virtual Lab on Oscillators” at the ‘20th International Conference on Remote Engineering and Virtual Instrumentation (REV 2023)’, March 2023.
- **Mr. Gaurav Tawde, Devesh Ramesh, Aayushi Mishra, Anushka Kulkarni, and Sudipa Majumdar,** published ‘Recognizing Handwritten Texts’ in the ‘International Journal of Engineering Research and Technology (IJERT)’, Vol. 12 Issue 03, ISSN: 2278-0181, March 2023.

- **Dr. Nandini Ammanagi, Yogesh Inamdar, Sakshi Gupta, Rushikesh Palekar, and Mihir Ranje,** published “**Blood Sugar Level Detection and Storage using Split Ring Resonator and Python**” at the ‘**2023 Fifth IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT 2023)**’ held at Velalar College of Engineering & Technology, Erode, Tamil Nadu, India during 22nd-24th February 2023.
- **Dr. Chandan Singh Rawat** published “**Use of AI-based Cloud Certificate Authentication for Travel Concession**” at the ‘**4th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI 2023)**’, held on 11th & 12th January 2023, Springer Publications.
- **Mrs. Neeta Chavan, Isha Chavan, Aishvarya Birambole, Risa Samanta, and Saakshi Karkera,** published ‘**Design and Development of Smart Pill Dispenser**’ in ‘**Sardar Patel International Conference - SPICON 2022**’ on ‘**Industry 4.0 - Nascent Technologies and Sustainability for ‘Make in India’ Initiative**’, organized by **SPCE (Sardar Patel College of Engineering), Mumbai** in association with **SPIT, Mumbai, Capgemini, SAE India WS, IE(I), IIIE, FELA** and technical collaboration with **American Institute of Physics & IEEE Bombay Section**, during **22nd - 23rd December 2022**.
- **Dr. Nadir N. Charniya** published “**M-Vahitaram: AI-Based Android Application for Automated Crowd Control Management in Bus Transport Service,**” at the ‘**International Conference on Springer Nature Proceedings of Emerging Trends and Technologies on Intelligent Systems**’ pp 141-154, DOI: 10.1007/978-981-19-4182-5_12, Springer Publications, **16th November 2022**.
- **Dr. Chandan Singh Rawat** published “**Oil Spill Detection using Synthetic Aperture RADAR**” at the ‘**International Conference on IoT in Social, Mobile, Analytics and Cloud (I-SMAC 2022)**’, held between **10th - 12th November 2022**, IEEE Xplore Publications.
- **Mrs. Manisha Joshi** published “**Using Fractional Derivative in Learning Algorithm for Artificial Neural Network: Application for Salary Prediction**” at the ‘**IEEE Bombay Section Signature Conference (IBSSC), Mumbai**, IEEE Xplore Publications, DOI: 10.1109/IBSSC56953.2022.10037558, **November 2022**.

WORKSHOPS CONDUCTED

- **Dr. M. D. Patil**, Associate Professor, Dept. of Automation & Robotics, conducted a one day workshop on the topic “**How to write Technical Paper**” organized by the Department of Electronics & Telecommunication Engineering, in association with the Institution’s Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC), for the students of the department, on **4th March, 2023**.
- **Dr. Chandan Singh Rawat**, Associate Professor, Head, Dept. of EXTC, VESIT, conducted a two day workshop on “**LaTeX**” organized by the Department of Electronics and Telecommunication Engineering, in association with the Institution’s Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC), for the students of the department, on **25th & 28th February 2023**.

- In association with the Institution's Innovation Council (IIC) and Internal Quality Assurance Cell (IQAC), the **Tinkerer's Lab** of the **EXTC** Department, and IEEE-VESIT organized a workshop on **"Prototyping with Raspberry Pi"**, in offline mode on Saturdays for three weeks, i.e, **21st January 2023, 28th January 2023** and **4th February 2023**.
- **Dr. Nandini Ammanagi**, Assistant Professor, EXTC, VESIT, and **Mr. Mrugendra Vasmatkar**, Assistant Professor, EXTC, VESIT, conducted a six days workshop on **"STTP on Trends in FPGA Design & Prototyping with VERILOG"** organized by EXTC Tinkerer's LAB in association with VESIT-IQAC, VESIT-IIC, Coreel Technologies & ISA-VESIT, for all students and faculties from different departments, from **2nd - 7th January 2023**.

WORKSHOP/COURSES ATTENDED

- **Dr. Chandan Singh Rawat** attended a course on **"Augmented and Virtual Reality"** organized by the **Department of Information Technology, Vishwakarma Institute of Information Technology, Kondhawa, Pune**, held during **20th - 24th February 2023**.
- **Dr. Monali Chaudhari** attended a UGC Approved Short Term Professional Development Programme on **"Implementation of NEP2020 for University and College Teachers"** organized by Indira Gandhi National Open University Staff Training and Research Institute of Distance Education, held during **20th - 29th January 2023**.
- **Dr. Ranjan Bala Jain** attended an ISTE approved Short Term Training Program (STTP) Programme on **"Quantum Computing"** organized by Department of Electronics & Telecommunication Engineering, Agnel Charities' Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, Maharashtra, held during **5th - 9th January 2023**.
- **Dr. Saylee Gharge, Mrs. Manisha Joshi, Mr. Shobhit K. Khandare, Mrs. Ashwini Sawant, Mr. Chintan Jethva, Mrs. Jyoti Bagate, Mrs. Anuradha Jadiya, Mrs. Arti Sawant, Mrs. Himali Patel, and Mrs. Neeta Chavan**, attended an ISTE Approved STTP on **"Social Media Analytics"** organized by Department of Computer Engineering in association with VESIT -IQAC, held during **2nd - 6th January 2023**.
- **Dr. Nandini Ammanagi** attended a course of AICTE Training And Learning (ATAL) Academy **Blended/Hybrid FDP on "Industrial IOT: Security Issues,Challenges & Solutions"** at Methodist College Of Engineering & Technology held during **26th - 31st December 2022**.
- **Dr. Monali Chaudhari, Dr. Nandini Ammanagi, Dr. Rasika B. Naik** attended an online One-Week Short Term Training Program on **"Industry 4.0: Strategic & Technological Perspectives for Indian Capital Goods Industries"** organized by Visvesvaraya National Institute of Technology, Nagpur, in collaboration with V.R. Jamdar Siemens Centre of Excellence for Industry 4.0 & Digitalization, VNIT, Nagpur, held during **8th - 12th December 2022**.

ORIENTATION PROGRAMS CONDUCTED

Dr. Saylee Gharge, and **Mr. Gaurav Tawde** conducted an orientation program on “**Satellite & Nano Satellite Communication (ECCDLO8022) BE-EXTC/Semester VIII,**” organized by the Department of EXTC, V.E.S. Institute of Technology, Chembur, on behalf of Mumbai university, for all subject teachers of various colleges affiliated to Mumbai University, on **6th February 2023**.

ORIENTATION PROGRAMS ATTENDED

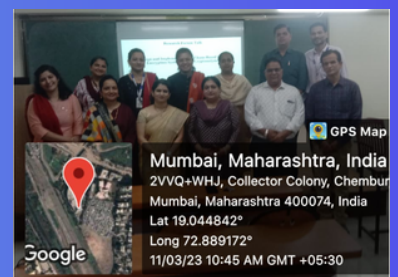
- **Dr. Rasika B. Naik** attended an orientation programme on “**Wireless Network**” conducted by **Vidyavardhini’s College of Engineering and Technology, Vasai Road (W)**, on behalf of Mumbai University, on **23rd January 2023**.
- **Dr. Ranjan Bala Jain** and **Mr. Gaurav Tawde** attended an orientation programme on “**Optical Communication & Networks**” conducted by **Terna Engineering College (Nerul), Bharati Vidyapeeth College of Engineering (Kharghar) and Saraswati College of Engineering (Kharghar)**, on behalf of Mumbai University, on **14th January 2023**.

RESEARCH FORUM ACTIVITIES

Research Forum of VESIT in association with the **EXTC Department**, Internal Quality Assurance Cell (IQAC) and the Institution’s Innovation Council (IIC) organized a session on “**Design and Implementation of Chaos-based Image Encryption and its Cryptanalysis**” for Faculty members of all departments on **11th March 2023**. The speaker for the session was **Dr. Rasika B. Naik**, Assistant Professor, EXTC, VESIT. The session included her research topic, and emphasis was given on the need to develop a more secure algorithm, as traditional username and password systems are prone to cyber-attacks. The proposed **Pseudo Random Binary Sequence Generator (PRBSG) using the chaotic map method** could help in building such a secure algorithm.



Poster for the research forum talk



Participants for the Research Forum Talk

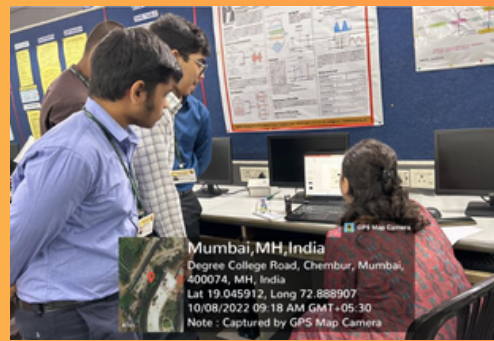
ALUMNI INTERACTIONS

Alumni are vital to the institute's strength, and the EXTC department acknowledges their role as stakeholders in leveraging the VESIT brand.

- A moment of anticipation filled the air as **Priyanka Pathak, Bhuvana Raisinghani, Kaustubh Salve, Aanand Lathi, Onkar Joshi, Saheb Wadhawa, Shubham Singh, Neha Nishad, Siddhant Satam, Shubham Madhavi, Gaurav Jagwani, and Sunit Raut**, currently working with various **Indian/MNC's in Core Technology/IT**, returned to their alma mater for a special visit to review second and third year students Mini Projects on **8th April 2023**. With a keen eye and a wealth of experience, the alumni engaged with each student, providing constructive feedback and valuable insights. The feedback focused not only on the technical aspects but also on fostering creativity, innovation, and real-world applications.
- The convocation ceremony is a momentous occasion that symbolizes the culmination of years of hardwork and dedication. **Mr. Anish Kumar Singh (ME EXTC-2017), Assistant Divisional Engineer Telecom, Ministry of Communications, Government of India** graced the stage with his presence for Convocation Ceremony of Batch 2021-22 held on **1st April 2023**. His words of wisdom left an indelible impact on the audience, igniting a renewed sense of determination and passion within each graduate.



Convocation Ceremony of Batch 2021-22



Alumna reviewing a project

MISCELLANEOUS ACTIVITIES

- **Dr. Rasika B. Naik** successfully completed NPTEL Course on '**NBA Accreditation and Teaching and learning in Engineering (NATE)**.' It was a 12 weeks course, held during **23rd January 2023 - 14th April 2023**, organized by **IISc Bangalore, MSRIT**.
- **Mrs. Neeta Chavan** completed the 7th module of the training program under the **National Institute of Technical Teachers Training and Research (NITTTR)** of '**Creative Problem Solving , Innovation and Meaningful R & D**' in **February 2023**.

STUDENT ACHIEVEMENTS

ZEALOUS PHILOMATHS

The gates are opened by the teachers, but it is a student that has to enter. No matter how good and dedicated teachers are, only the students who are willing to learn, will take the first step forward in gaining knowledge. This year also, the students of the EXTC department have put their hard work and proficiency to its best and have prepared for various competitive exams. They diligently pursued their studies and did admirably in competitive examinations, like GATE, GRE and TOEFL, as follows:

Sr.no	Names of students qualified	Competitive Exam	Score/Rank
1	Abhishek Ajit Bhingarde	GATE	AIR 4330
2	Ameya Padwad	GRE	315/340
3	Risa Samanta	GRE	306/340
4	Devesh Ramesh	TOEFL	108/120

INDUSTRIAL VISIT

The rise in cut-throat competition has expedited the requirement for industry-ready professionals. Industrial visits offer an opportunity for students to experience the real machines, workstations, and systems, and get to learn from the experienced experts in the industry. Such practical exposure is important for students to relate to what they have learned in the curriculum. Hence, to provide the students insights into an industry, the Department of EXTC organized a one day visit to the some known industries, details of which are as follows:

- An Industrial visit to **Tarapur Atomic Power Station (TAPS), Tarapur, Boisar** was conducted on **24th February 2023** for the **Second year EXTC students**. Along with **43 students**, faculty members of the department **Dr. Mrs. Nandini Ammanagi, Mrs. Jyoti Bagate** and **Mr. Gaurav Tawde** also accompanied.



Second year EXTC students with faculty at TAPS, Tarapur, Boisar

- An Industrial visit to **Tata Communications Ltd, Dighi, Pune** was conducted on **3rd February 2023** for the Final and Third year EXTC students. About **44 students** attended the visit along with faculty members of the department, **Mr. Gaurav Tawde, Mrs. Arti Sawant, Mrs. Anuradha Jadiya, and Mrs. Himali Patel.**



Group photo with students, faculty and Mr. Rahul & Mr. Amitesh Ghatak (General Manager) at TCL

SCHOLARSHIP

In today's world, education has become one of the most essential and expensive assets. In such a scenario, scholarships come up as the most desired form of financial aid. This is because, unlike educational loans, scholarships don't have to be repaid. Getting a scholarship takes away all the financial concerns, thus giving students more time to study, gain knowledge and secure better grades. Students also get ample time to look for opportunities for skill development and knowledge enhancement. Some of the scholarships received by students of the department are as follows:

- **Khan Md. Ayan** of D19B, received an amount of **Twenty Five Thousand rupees (Rs. 25,000)** under the scheme of '**Vivekanand Jyoti Scholarship**'.
- **Sumit Sanjiv Pawar** of D9A, received an amount of **Twenty Thousand rupees (Rs. 20,000)** under the scholarship scheme of '**Jadavpur Alumni Association Trust**'.
- **Snehal Patil (D9B), Pritam Mahadeo Dhamak (D9B), Harshal Talreja (D9A), Siddhesh Deepak Shirshivkar (D9A), Ayush Pramod Kotkar (D14B), Akanksha Dilip Gawade (D19B), Shreya Ravindra Dhamane (D19A), and Nafees Akhter (D19B),** received an amount of **Fifteen thousand rupees (Rs. 15,000)** each, under the '**Student Aid Scholarship**'.

WORKSHOPS ATTENDED

The impact of education on an individual's life is long-lasting and valuable. While academic education is vital, practical education is necessary for a more in-depth grasp of life. Students learn more when their questions are answered and they gain hands-on experience. Discussing pertinent theses of a certain subject tends to make the students aware about the latest information and expertise coupled to the concerned themes.

This semester witnessed participation of the students of the EXTC department in various workshops. The details are as follows:

- **Around 40 students of the EXTC department including Gauraang Gurunath Prabhudesai, Om Pralhad Tandel, Mitali Shashikant Vichare, Saniya Inamdar, Shrey Panchamia, Sanskruti Punyarthi, Shantanu Nilesh Deshmukh, Gaurang Kedare, Manasi Pawar, Shruti Vijay Dalvi, Hitakrit Mahesh Goplani, Tarang Rajpal, Chaitanya Pramod Limaye, Vinay Rajendra Singh, Om Madat, Madhura Sunil Ghanwat, Heramb Ramakant Pawar, Siddharth Rawlani, Vansh Pahuja, Mohit Shahdadpuri, Manav Jawrani, Mayur Pimpude, Sheikh Shahid Gull, Vedant Jadhav, Mehul Rajnrdras Nikumbh, Vaishali Lokesh Gatty, Vivek Balani, Sakshi Vinod Ambikar, Chinmay Vinarkar, Rohit Rathod, Aadarsh Prasanna Pandit, Sagar Akhilesh Pandey, Pratik Prasanna Upadhye, Varun Tushar Gharat, Raj Pudari, Aman Suresh Rajbhar, Madhurima Tamhankar, Yash Bhise, Shripad Kulkarni, and Nitish Jaiswal** attended an Online Workshop on '**Hands-on CyberSecurity Essentials**' organized by Department of Electronics & Telecommunication during **20th - 26th February 2023**.
- **Pooja Narayanan** attended a workshop on '**ESP32 and MicroPython**', organized by **ISA** during **6th - 7th February 2023**.
- **Siddhesh Shirshivkar, Aaroh Srivastava, Aditri Vishwas, Adwait Panadi, Akash Neharkar, Anshkumar Agrahari, Anuja Kulkarni, Khushi Purohit, Pranav Jha, Prasad Gourshettiwar, Suyog Bharsakle, Vedant Vijay Patil, Vikas A Dhakane, Aditya Nama, Bhakti Daga, Mayur Santosh Pawar, Ninad Joshi, Preeti Shivaji Sonawane, Rishika Chaubal, Shreyas Kale, Siddharth Patil, Snehal Patil, Vedant Gupta, and Aditya Kushwaha** attended **UI/UX Workshop**, organized by **IEEE** during **2nd - 3rd February 2023**.

INTERNSHIP

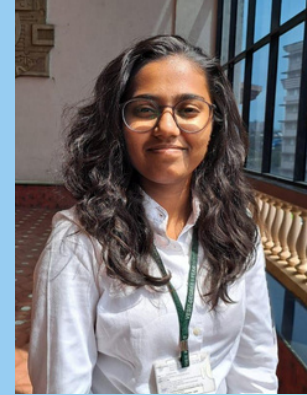
Internships are a crucial part of a student's career. It provides them with hands-on work experience and makes them stand out to potential employers. The students of the EXTC department took active part in numerous inhouse internships offered by VESIT during 1st December 2022 - 1st January 2023, and were able to gain information about various emerging technologies, through different courses. The details of these courses are as follows:

- **Milind Sawant, Shantanu Deshmukh, Kaustubh Pawar, Alrich Xavier Dsouza, Aayushi Santosh Rajeshirke, Pratik Patkar, Atharva Petkar and Tanmayee Bochare, completed Prototyping of FPGA using VERILOG Programming.**
- **Radhika Damle, Shreyas Sarang, and Pooja Ghadge completed VLSI implementation of DSP algorithm using MATLAB simulink.**
- **Hritika Mulay, Udit Koli, Sharvari Patwardhan, and Pradeesh Reddy completed Design of analog comparator.**
- **Shubham Kumar, and Aryan Chaudhary completed an IoT and AI based project.**
- **Tejas Sharma completed an Image Processing and AI based project.**

SECOND YEAR ACHIEVEMENTS

RISING DIPLOMAT

Hritika Mulay, a student of **D9B**, participated in two **inter-college Model United Nations (MUN)** conferences in Mumbai. She represented France in the DISEC at the **Institute of Chemical Technology** on **9th April 2023**, earning a **'verbal mention'** for her excellent debate skills and knowledge. In another conference at the **SIES Graduate School of Technology** held on **18th and 19th March 2023**, Hritika represented Switzerland in the UNSC committee and received a **'High Commendation'** for her outstanding performance.



Hritika Mulay

OUTDOOR SPHURTI

The VESIT Sports Council organized the Outdoor Sphurtti 2022-23 event to promote various outdoor sports across all departments of the college. The event aimed to encourage student participation, foster a competitive spirit, and create a vibrant sports culture within the college.

- One of the games in the event was **Kho-Kho**, which took place on **13th March 2023**. The **D9** team, comprising **Anup Chavan, Vikas Dhakane, Sumit Pawar, Prathamesh Bhingarde, Ishan Somani, Nihit Mistry, Prathamesh Savalkar, Thanmai Chunduru, Unnati Ayalwar, and Sakshi Gawale**, demonstrated exceptional teamwork and secured the **second place** in the tournament.



L-R: Anup Chavan, Vikas Dhakane, Sumit Pawar, Prathamesh Bhingarde, Ishan Somani, Nihit Mistry, Prathamesh Savalkar, Thanmai Chunduru, Unnati Ayalwar & Sakshi Gawale

- In another event of the outdoor sports festival, Sphurti, a volleyball competition took place on **6th March 2023**. In this game, the **D9 boys' team**, comprising **Vedant Gupta, Aditya Kurdia, Rohit Singh, Prathamesh Bhingarde, Chirag Nawlani, Sahil Wakole, and Rohan Chavan**, emerged as the **first prize winners**.



L-R: Vedant Gupta, Aditya Kurdia, Rohit Singh, Prathamesh Bhingarde, Chirag Nawlani, Sahil Wakole, & Rohan Chavan

THIRD YEAR ACHIEVEMENTS

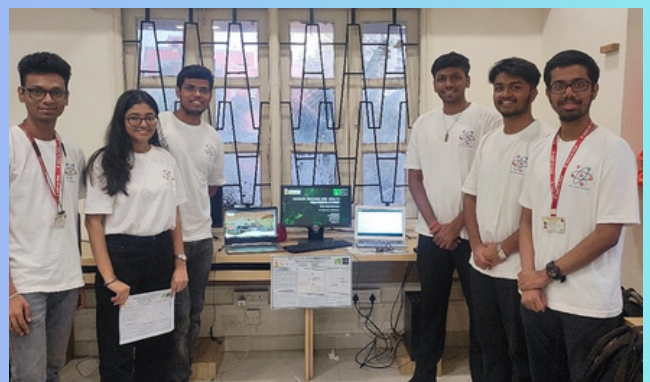
LOOK BEYOND SYLLABUS HACKATHON

The **Look Beyond Syllabus (LBS) Hackathon**, held on **13th, 14th March 2023**, challenged students to create functional projects within a 14-hour timeframe. This intense hackathon served as a platform for students to showcase their innovative ideas and transform them into working prototypes, fostering a culture of innovation and providing valuable experiential learning.

- **Shantanu Deshmukh (D14B)** and his team, **Shreyas Sarang (D14B)**, **Udit Koli (D14A)**, **Arya Hirlekar (D14B)** who were accompanied by **Gargi Khachane** and **Manvi Gour** from the AIDS department, secured the position of **First runner-up** in the hardware track with their innovative project that allows automated dispensing of water for pets in the owner's absence, along with a customizable food compartment, personalized suggestions for pet needs, and timely reminders for pet owners, revolutionizing pet care for a better and healthier life.
- **Kaustubh Pawar** from **D14B** along with his team comprising of **Milind Sawant** from **D14A** and **Aman Bhowmick**, **Dhanashree Pandey**, **Atharva Bhaindarkar**, **Aditya Bagayatkar** from various other departments, secured the position of **Second runner-up** in hardware track with their groundbreaking project focused on wildlife monitoring, which enables the determination of population trends, tracking animal movement in wildlife, and combating poaching incidents.



L-R: Gargi Khachane, Manvi Gour, Arya Hirlekar, Mrs. Arti Sawant, Shantanu Deshmukh, Shreyas Sarang, & Udit Koli



L-R: Aman Bhowmick, Dhanashree Pandey, Atharva Bhaindarkar, Kaustubh Pawar, Milind Sawant, & Aditya Bagayatkar.

Un-De-Feet-ables

Jayesh Utekar from **D14A**, and **Siddesh Gajare** from **D14B**, emerged as standout participants in the sports events organized at VES College. In the **Inter-VES Kabaddi** tournament held on **30th January 2023**, the EXTC boys and their team showcased exceptional skill and determination, emerging as the **Winners** in the tournament.



Jayesh Utekar



Siddesh Gajare

VESIT Premier League 2023 (VPL'23)

The **VESIT Premier League 2023**, organized by **VESIT Sports**, captivated football enthusiasts with its fierce competition and passionate atmosphere. The league featured eight teams, which were divided into two groups, creating an intense battle for qualification into the playoffs. The tournament provided a stage for showcasing the skills and determination of the participating teams, fueling the excitement of the spectators.

In a thrilling final held on **30th January 2023**, **Pratham Patil** from **D14B** and his team, **Inter Mulund**, emerged as the champions, displaying their exceptional talent and determination. The event served as a platform for football lovers to come together and celebrate the sport they are passionate about.



Pratham Patil & his team (Inter Mulund)

Net Ninjas

On **6th March 2023**, the outdoor **Sphurti Volleyball championship** took place, witnessing the participation of numerous teams, each demonstrating their capabilities and camaraderie. Among them, the **D14** team, led by players **Jayesh Utekar**, **Aryan Chaudhary**, **Harsh Ranjan**, **Niraj Divekar**, **Arya Hirlekar**, **Varun Bangad**, and **Tushar Kadam**, secured the runner-up position in the tournament, demonstrating exceptional teamwork and remarkable performance.



L-R: Jayesh Utekar, Aryan Chaudhary, Harsh Ranjan, Niraj Divekar, Arya Hirlekar, Varun Bangad, & Tushar Kadam

A Legacy Of Excellence

Harsh Ranjan from **D14A**, a passionate sports enthusiast and active participant in numerous sports events, recently demonstrated his exceptional skills and teamwork during the **Outdoor Sphurti 2023** event organized by the VESIT Sports Council from **6th to 13th March 2023**. Competing in the **Volleyball** category, Harsh and his team secured the runner-up position, showcasing their impressive performance.



Harsh Ranjan

In addition to his achievements in volleyball, Harsh made a mark in the **VCL '23 (VESIT Cricket League 2023)** held on **16th December 2022**. This cricket tournament, organized by the VESIT Sports Council at the VES Polytechnic ground, attracted a total of six teams. Representing his team, Rising Panvel, Harsh and his teammates emerged as the winners, surpassing all other participating teams and claiming the coveted title. During the Inter-VES event, Harsh's sporting prowess extended beyond volleyball and cricket as he also displayed his speed and agility in the **4x100 meters relay race**. Additionally, his team secured the runner-up position in the **tug of war** competition.

ILLUSION 2023

The Illusion 2023 event, organized by the VESIT Cultural Council from 7th to 14th January 2023, was a unique league-format cultural event at VESIT. Its aim was to foster student bonding and discover outstanding talents among the students. Illusion featured diverse events in areas such as cultural activities, sports, music, dance, literature, aesthetics, and more.

- **Jayesh Utekar** from **D14A** had a remarkable performance at the **Illusion 2023 event**. On **14th January 2023**, he was honored with the **Best MC Award** and led the drama team as the Main Captain. He clinched the **first position** in the **duet drama competition** on the same day. Furthermore, on **13th January 2023**, Jayesh achieved the **second prize** in the **group drama** competition.



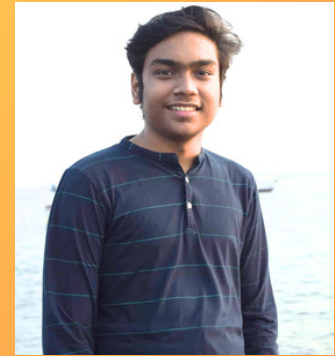
Jayesh Utekar receiving award from Sejal Bishoyi (Cultural Secretary)

- **Srushti Pagar** from **D14A**, **Dance MC** in **Team Laureates** emerged victorious, with her team including **Diti Patil (D14A)**, **Thanmai Chundururu (D9A)**, and other students from various departments, securing the **first place** in the dance event of **Illusion 2023**, which took place on **14th January 2023**. Demonstrating an exceptional level of skill, dedication, and a deep passion for dance, Srushti and her team delivered a captivating performance.



L-R: Diti Patil, Thanmai Chunduru, Srushti Pagar (MC), Devansh Singh, Shravani Patil, Aaryaa Pandit, & Vanshika Bajaj

- **Ayush Kotkar**, a talented musician from **D14B**, proudly represented his team in the highly anticipated music event of **Illusion 2023**. The event took place from **10th to 14th January 2023** and brought together musicians from all over VESIT, each eager to showcase their skills and captivate the audience. Ayush showcased his musical abilities with a captivating performance that ultimately secured him **second place**.



Ayush Kotkar

The Wordsmith Champion

ISA-VESIT conducted an **Article writing competition** on **5th April 2023**, where the participants had to submit an article based on any technical topic. **Pooja Narayanan**, from **D14A**, bagged the **Second prize** in the competition, with her captivating article on Dall-E, that showcased her talent for bridging literature and technology.



Pooja Narayanan

FINAL YEAR ACHIEVEMENTS

INSPIRING ACHIEVERS

The Electronics Student Association (ESA), Electronics & Telecommunication Engineering Department & IEEE of Bhartiya Vidya Bhavan's, Sardar Patel Institute of Technology (S.P.I.T.), Andheri, Mumbai, organized '**SPIT Innovation Cup - 2023**', an AICTE-SPICES & Idea Lab Sponsored Ideathon and Project exhibition. The final round was conducted on **8th May 2023**. It was a competition, dedicated to promoting innovation and creativity in hardware design.

- Under the guidance of **Mrs. Ashwini Sawant**, the team '**TECH CLAN**' including **Arunkumar Mariappan, Heeral Chumber, Riddhi Joshi, Farheen Khan, and Suresh Bairi** exhibited their project "**Hydra Matsyapalan**". The team emerged victorious in the second round and secured a **cash prize of Rs. 5000** for their prototype, advancing to the final round. In the final round, held in the Agricultural domain, the team clinched the **First Rank** and **cash prize of Rs. 10000**.



L-R: Heeral Chumber, Arunkumar Mariappan, Riddhi Joshi, Suresh Bairi, & Farheen Khan emerging victorious.

- Under the guidance of **Mrs. Manisha Chattopadhyay**, the team including **Ishan Kharat, Kartik Avhad, Sumit Jadhav, Devesh Ramesh and Daval Mahajan** exhibited their project "**MEMS Based Soil Nutrient Sensor and ML Based Crop Recommendation System**". The team emerged victorious in the second round and secured a **cash prize of Rs. 5000** for their prototype, advancing to the Agriculture domain final round.



L-R: Sumit Jadhav, Ishan Kharat, & Kartik Avhad

Sardar Patel Institute of Technology (S.P.I.T.), Andheri, Mumbai, organized '**PERIPHERATHON 1.0**', an **AI - Powered IOT Hardware Hackathon**, an **AICTE-SPICES & Idea Lab** Sponsored Ideathon and Project exhibition, on **15th April 2023**. Under the guidance of **Mrs. Ashwini Sawant**, the team including **Abhishek Bhatia, Avantika Shetty, Shweta Bhabal, Nafees Akhter and Gaurang Kedare** exhibited their project "**IoT Powered Smart Baby Stroller**" and won the First round with a **cash prize of Rs. 2500** for their prototype and gave a tough fight in finals.

The Excelssior Education Society's KCCOE's Department of Electronics and Telecommunication organized '**XZIBIT-2023**', a National level project competition. The competition, conducted from **8th to 10th April 2023**, had Software or Hardware Sub-tracks, which served as a melting pot of talent, encouraging collaboration and knowledge exchange.

- Under the guidance of **Dr. Nandini Ammanagi**, the group of students including **Adarsh Ps, Rohan Giri, Bhavesh Khati**, and **Shripad Kulkarni** showcased their idea in the form of project "**IoT Based Wireless Cloud Printer**". The team worked on solving the problems in the printing and photocopying industry by designing a completely automated and secured system and bagged the **First Position** in the Competition.



L-R: **Bhavesh Khati, Rohan Giri, Dr. Nandini Ammanagi (Mentor), Shripad Kulkarni, & Adarsh PS**

- Under the guidance of **Mrs. Himali Patel**, the team '**Nextwave**' including **Mcvean Soans, Prajna Moorthy, Mrunal Murudkar and Saptarshi Das**, made a project "**Swasthya - An EHR Built on Blockchain**", in the Major Software Track, which made them conquer the **Second Position**. It was a blockchain-based decentralized patient health record system called '**Swasthya**'.



L-R : **Saptarshi Das, Prajna Moorthy, Mrs. Himali Patel (Mentor), Mrunal Murudkar, & Mcvean Soans**

- The Lokmanya Tilak College of Engineering conducted **TANTRAGYAN 2K23**, a National level Working project Competition on **28th March 2023**. Under the guidance of **Mr. Shobhit Khandare**, the team including **V. Anuparvathi, Vasudha Sasikumar, Neha Makattil** and **Varun Arya** exhibited their project "**Know your posture**". It was a real time posture detection and correction system with yoga recommendations. This unique idea and igniting innovative minds conquered **First Position** in the competition.



L-R : **Varun Arya, V. Anuparvathi, Vasudha Sasikumar**

The competition '**PRAKALP '23**' was organized on **10th March 2023** by IIC - Fr. Conceicao Rodrigues College of Engineering, Bandra, IEEE wie CRCE. Under the guidance of **Mrs. Ashwini Sawant**, the team '**TECH CLAN**' including **Arunkumar Mariappan, Heeral Chumber, Riddhi Joshi, and Farheen Khan** exhibited their project "**Hydra Matsyapalan**" and among 50 selected teams received the **Third Prize** in Hardware category with a **cash prize of Rs 4000**. The project mainly focused on providing technological advancements in India's fishing industry.



L-R: Arunkumar Mariappan, Farheen Khan, Mrs. Ashwini Sawant (Mentor), Riddhi Joshi, & Heeral Chumber

IEEE Bombay Section organized an International online Idea Competition "**IdeaThon-2022**", on **12th November 2022**.

- Under the guidance of **Mrs. Neeta Chavan**, the group of students including **Aishvarya Birambole, Isha Chavan, Saakshi Karkera, and Risa Samanta** exhibited their project "**Smart Pill Dispenser**". The idea of the project was to automatically dispense medicines at specific time intervals, which won them the **Third rank** along with **prize money worth Rs 3,000**.



L-R: Aishvarya Birambole, Saakshi Karkera, Mrs. Neeta Chavan (Mentor), Risa Samanta, & Isha Chavan

- Under the guidance of **Dr. Nandini Ammanagi**, the group of students including **Shripad Kulkarni, Rohan Giri, Adarsh P.S, and Bhavesh Khati** exhibited their project "**IoT Based Wireless Cloud Printer**". The team worked on solving the problems in the printing and photocopying industry by designing a completely automated and got **Pre-Qualified in competition**.

Many Final year students have actively participated in various project competitions like **Oscillation-2023, Conception-2023, CIIA-2023, Bit n Build**.

SYRUS HACKATHON

Syrus Hackathon 2023, organized by **CodeCell** in association with **VESIT - IQAC** and **VESIT - IIC**, was a **two-day intense offline event**, conducted on **10th and 11th March 2023**. With the theme centered around the **United Nations' 17 Sustainable Development Goals**, participants were challenged to harness the power of **Web 2.0 and Web 3.0 technologies** to address pressing global issues. A combined total of **110 teams** had participated in the **24-hour hackathon**. There were 2 judging rounds by a panel of CMPN judges, and the final judging round was done by Devfolio, a hackathon platform that empowers developers to showcase their projects and skills to potential employers or collaborators.

- **Mcvean Soans (D19A)** along with his partner **Nikita Khabya (D15B)** were the **only team** who **won officially from Devfolio in the Web3 Track**. Their project aimed to connect patients & doctors by providing a modern dashboard that stored patient records on the **IPFS (de-centralised storage) network**.



Mcvean Soans



Nikita Khabya

VESIT HACKS

VESIT Hacks was a Hackathon held on 4th March 2023 by E-Cell with VESIT Renaissance Cell in collaboration with VESIT IIC & IQAC, under Praxis '23. The event celebrated inclusivity, teamwork, and a passion for pushing the boundaries of technology. Farheen Khan, accompanied by her talented team Mayur Chaudhari, Neel Gupta, Prasanna Sridharan, Ekta Rohra, and Sakshi Gattani from the IT and ETRX departments, secured the second prize and a well-deserved cash prize of 3000/- for their remarkable project that focused on developing a website-based announcement platform for students, alumni, parents, and faculty



L-R Mayur Chaudhari, Neel Gupta, Prasanna Sridharan, Dr. Anjali Yeole, Sukanya Roychowdhury, Ekta Rohra, Farheen Khan, & Sakshi Gattani

INTER-VES SPORTS

Sahil Sinha (D19A), Nikhil Jain (D19B), Maroof Merchant (D19B), Varun Arya (D19A), Aniket Sangle (D14A), and their team showcased exceptional teamwork and demonstrated their strength at the **Inter-VES Tug of War competition** held on **20th January 2023**, at VES Polytechnic ground. Their impressive performance earned them the **runner-up position**, highlighting their remarkable abilities.



Tug of war team

HERCULEAN HAULERS

On **2nd March 2023**, the Outdoor Sphurti competition witnessed an impressive display of strength and teamwork as the team of **D19** emerged as the **first-place winners in the Tug of War event**.



Tug of war winning team

Shri. Ram Keswani Cup Football Tournament

The **Shri. Ram Keswani Cup Football Tournament**, held as part of the **Hashu Advani Sports Festival 2022-23**, witnessed a thrilling display of football skills and concluded with an exciting final match on **26th November 2022** at the VES Polytechnic Ground. In the end, **Divyanshu Pandey**, and **Mohit Sajeevan** from **D19A** and their team emerged as winners with a dominant **4-1 scoreline**, showcasing their superior performance throughout the tournament.



Shri. Ram Keswani Cup Football Tournament
Winning Team

OCTAVES 2023

- **Octaves 2023**, organized by VESIT Music Council, was a sensational two-day music event. **Sudipa Majumdar**, from **D19A**, had an impressive showing at Octaves 2023. Participating in two events, she showcased her exceptional talent and emerged as a winner in both. On **8th March 2023**, Sudipa's mesmerizing vocal talents earned her **second place** in the '**Voice of VESIT**' competition.



Sudipa Majumdar

- On **9th March 2023**, the band including **Abhishek Mokal (D14B)**, **Sudipa Majumdar (D19A)**, and students from other departments, claimed the **First place** in the thrilling '**Battle of Bands**', displaying incredible instrumental skills.



Battle of Bands winning team

THE EDITORIAL TEAM

REFLECTION

VOLUME 17



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HEAD OF DEPARTMENT



DR. (MRS). NANDINI AMMANAGI
STAFF IN-CHARGE



MRS. ANURADHA JADIYA
STAFF IN-CHARGE



POOJA NARAYANAN
SR. EDITOR



MANASI PAWAR
SR. EDITOR



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SR. DESIGNER



RENU DHARMAKAR
JR. EDITOR



SHARVARI PATWARDHAN
JR. EDITOR



RISHIKA CHAUBAL
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JR. DESIGNER