

VOLUME 16 | DECEMBER 2022

## REFEETIONS

IGNITING INNOVATION TO EMPOWER FUTURE...



### THE EXTC TIMES

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# MESSAGE FROM THE DEPARTMENT



Mrs. Ashwini Sawant

Dear Students,

Successful engineering careers don't happen by chance. Therefore, define where you would like to be as an engineer in the medium and long-term. Setting goals will help you to keep you focused and moving forward. In addition, regularly review your progress for achieving your goals. It is not the bigger goal that you have to pursue but the smaller goals that you need to set for every day and try to achieve them to reach the end goal. Remember, learning is a life long process to remain relevant in whatever field you choose. In addition to technical quotient, you also need Emotional & Financial quotient, Combination of Hard skill & soft skill is key to success.

Participation in Project Competition and Conferences /Publications is important part of Academic Career & helps directly /indirectly in achieving above skills.

Participation in Project Competition helps students to gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging, and complex question, problem, or challenge. Students demonstrate their knowledge and skills by creating a public product or presentation for a real audience. As a result, students develop deep content knowledge as well as critical thinking, collaboration, creativity, and communication skills. Project Based Learning unleashes a contagious, creative energy among students and teachers.

Attending & participating in Conferences/Publications is also significant because with constant evolving of technology and immense level of competition, it has become imperative for academics to have their research findings published at events such as an international conference or a reputed journal/publication. At these conferences students are given the opportunity to increase networking skills, meet with leaders in their fields, improve their communication and presentation abilities, and learn about the latest research in their area.

Wish you all the best wishes for success and a bright future!

Mrs. Ashwini Sawant,
Assistant Professor,
Electronics and Telecommunication (EXTC) Department, VESIT

## TRIUMPHS OF THE DEPARTMENT

#### PROJECT EXPOSITION

Under the guidance of Mrs. Manisha Chattopadhyay, team 'Innovators tech' including Raisinghani, Swarangi Dali, Shripad Kulkarni, Aditya Mohan, Amit Chhabria, and Varun Bhat displayed their creative proposition that was a Chrome extension for the Google Meet software that would help sign language users in communicating seamlessly with users who use speech as a form of communication. This project bagged the title of winners in the national level project competition Smart India Hackathon - 2022, along with prize money worth Rs 1,00,000/- (Rupees One Lakh). The Grand Finale of the Software Edition Shripad Kulkarni, Aditya Mohan, Amit (Seniors) was held on the 25th & 26th August 2022.



L-R: Bhuvana Raisinghani, Swarangi Dali, Mrs. Manisha Chattopadhyay (Mentor), Chhabria, and Varun Bhat.

A total of three evaluation rounds and two mentoring rounds took place during the 36 hours course of the hackathon. The name of the Nodal Centre was Sri Shakthi Institute of Engineering & Technology, Coimbatore, Tamil Nadu and the Problem statement of the project was 'Enabling alternative accessible strategies for persons with speech impairment (RK759)' under the 'Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice and Empowerment'.

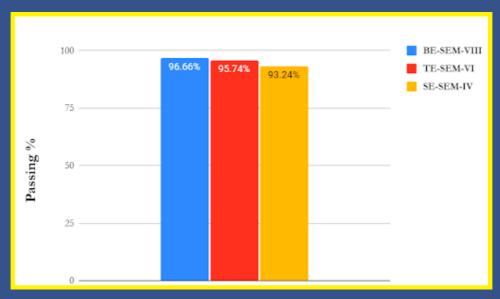
Under the guidance of Mrs. Neeta Chavan, the group of students including Aishvarya Birambole, Isha Chavan, Saakshi Karkera, and Risa Samanta exhibited their project "Smart Pill Dispenser" in an International online Idea Competition "Ideathon-2022", organized by IEEE Bombay Section conducted on 12th November 2022. The idea of the project was to automatically dispense medicines at specific time intervals. This project won the **3rd rank** along with prize money worth Rs 3,000 (Rupees three thousand).



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

#### **ACADEMIC RESULT**

Resolution and commitment of the students of the EXTC department have indeed led them to achieve magnificent end results. The department feels immensely proud to announce that our students in the Second year, Third year and Final year have aced the examinations and achieved a satisfactory 93.24%, 95.74% and 96.66% results in the even semester. Complements to all the students who have performed exceedingly well in examinations.



Department of EXTC- Academic Result- 2021-22(Even Sem)

#### **FACULTY ACHIEVEMENTS**

#### RESEARCH PAPERS PUBLISHED

Aditya R Achar, Ambesh Mishra, Diksha Makhijani, and Dhairya Nagpal under the guidance of Mr. Mrugendra M Vasmatkar published "Data Leakage in Android and Anomaly Based Intrusion Detection and Prevention System" in the "2nd Asian Conference on Innovation in Technology (ASIANCON)", ISBN:978-1-6654-6851-0, 26th - 28th August 2022.

#### **WORKSHOPS CONDUCTED**

Dr. Ranjan Bala Jain, and Mrs. Rasika Naik conducted a two days workshop on the topic "Software Defined Radio and MIMO Configurations" organized by the Department of Electronics and Telecommunication in association with IIC and IQAC on the 23rd & 24th September 2022.

#### ORIENTATION PROGRAMS ATTENDED

- An Online Faculty Orientation Program on "Social Media Analytics and Social Media Analytics Lab (CSDC8023 and CSDL8023)" organized by the Department of Computer Engineering, Vivekanand Education Society's Institute of Technology, Chembur, Mumbai was attended by Mrs. Arti Sawant on 6th January 2023.
- An Orientation Program on "Cloud Computing and Security (ECCDLOC\_7013)" organized by Ramrao Adik Institute of Technology, Nerul, Navi Mumbai was attended by **Dr. Monali Chaudhari** and **Mrs. Arti Sawant** on **16th July 2022**.
- An Online Faculty Orientation Program for the department-level elective course "5G Technology (ECCDLO\_7022)" organized by the Department of Electronics & Telecommunication Engineering, Pillai HOC College of Engineering and Technology, Rasayani, Dist. Raigad was attended by Dr. Monali Chaudhari and Mr. Gaurav Tawde on 16th July 2022.
- An Online Faculty Orientation Program for the subject "Internet Communication Engineering (ECCDLO\_7023)" organized by the Electronics & Telecommunication Engineering Department of SIES Graduate School of Technology, Nerul, Navi Mumbai was attended by Dr. Monali Chaudhari, Dr. Nandini Ammanagi, Mr. Gaurav Tawde, and Mrs. Rasika B. Naik on 15th July 2022.
- An Online Faculty Orientation Program for the subject "Deep Learning (ECCDLO\_7012)" organized by the Department of Electronics & Telecommunication Engineering , Thadomal Shahani Engineering College, Bandra was attended by Mr. Gaurav Tawde on 15th July 2022.
- An Online Faculty Orientation Program for the subject "Robotics" organized by the Department of Computer Engineering, Fr. Conceicao Rodrigues College of Engineering, Bandra, Mumbai was attended by Mr. Gaurav Tawde on 15th July 2022.
- An Online Faculty Orientation Program for the course "Mobile Communication System (ECC702 and ECL702)" organized by Vidyavardhini's College of Engineering and Technology, Vasai was attended by Mr. Gaurav Tawde, Mrs. Rasika B. Naik and Mr. Chintan Jethva on 14th July 2022.
- An Online Faculty Orientation Program for the department-level elective course "Big Data Analytics (ECCDLO\_7014)" organized by Ramrao Adik Institute of Technology, Nerul, Navi Mumbai was attended by Mr. Gaurav Tawde on 14th July 2022.

#### **SKILL ENHANCEMENT LECTURES**

- Mr Vikas Singh, Chief RF Engineer in NESA Radiation Solutions Pvt Ltd, was the speaker on the topic "Radiation Hazards and remedies", organized under Skill Enhancement Lecture (SEL) activity conducted on the 16th September 2022, on the subject "Mobile Communication System", for the final year EXTC students. The lecture commenced with a discussion on the growing concern about the harmful hazards of mobile phones and mobile phone towers' radiation. The reasons, effects of exposure to high radiation and related health issues were covered. Terms associated with NESA (Non-Ionizing Electromagnetic Shielding Alternatives) and its core expertise, etc were discussed. He also talked about the wide range of shielding solutions for residences, offices, buildings, schools and hospitals that NESA offers. The session was very informative and engaging. A total of 76 curious students attended the session and were fascinated by the proficiency of the speaker on the topic.
- Mr. **Aditya** Krishnan, Digital **Strategist** Consultant, at Accenture, was the speaker on the topic "Search Engine Optimization and Algorithms", organized under Skill Enhancement Lecture (SEL) activity conducted on the 15th September 2022, on the subject "Big Data Analytics", for the Final year EXTC students. The lecture commenced with the basics of Digital Analytics and a discussion on the role of Artificial Intelligence in a Semantic Search. The topic of Voice Search was also explored in detail. Many terms associated with algorithms like Rankbrain, BERT, MUM, etc were discussed. He also gave numerous strategies for optimization and suggested a few practices to the attendees. Overall the session was very interactive and interesting. 80 highly enthusiastic students attended the lecture and imbibed the wealth of knowledge of the speaker.



SEL on 'Radiation Hazards and remedies' by Mr Vikas Singh



SEL on 'Search Engine Optimization and Algorithms' by Mr. Aditya Krishnan attended by the Final year EXTC students

#### **WORKSHOPS ATTENDED**

- Mrs Arti Sawant attended a course on "ISTE Approved STTP on Social Media Analytics" organized by the Department of Computer Engineering from 2nd January to 6th Jan 2023.
- Mr. Gaurav Tawde attended a course on "Five Days Faculty Development Program (FDP)
   on Computer Vision in Machine Learning" organized by the Department of Computer
   Engineering held at Datta Meghe College of Engineering, Navi Mumbai from
   17th October 2022 to 21st October 2022.
- Mr. Mrugendra M Vasmatkar attended an Innovation Ambassador IA Training (Foundation Level & Advanced Level) organized by MoE's Innovation Cell and AICTE held during September and October 2022 (15 Sessions 30 Contact Hours).
- Dr. Monali Chaudhari, attended a course on "Amazon Web Services" organized by the Department of Electronics and Telecommunication, AISSMS Institute of Information Technology, Pune in collaboration with Brainovision Solutions India Pvt. ltd & All India Council for Technical Education AICTE, Ministry of Education, India held from 22nd August 2022 to 27th August 2022.

#### **RESEARCH FORUM ACTIVITY**



Research Forum Talk on 'PID Controller Design' by Dr. S.P. Bhattacharyya for students & Faculties of EXTC and ETRX Department

Research Forum of VESIT in association with the Internal Quality Assurance Cell (IQAC) and the Institution's Innovation Council (IIC) organized a session on "PID Controller Design" for all Students & Faculties of EXTC and ETRX on 12th August 2022. The speaker for the session was Dr. S.P. Bhattacharyya, Professor - Department - Electrical & Computer Engineering, College of Engineering, Texas A&M University.

#### **ALUMNI INTERACTIONS**

Alumni are vital to the institute's strength, and the EXTC department acknowledges their role as stakeholders in leveraging the VESIT brand. To bolster this relationship, VESIT-Internal Quality Assurance Cell (IQAC) conducts "V-REACH", VESIT-Alumni engagement initiative, which aims at reaching out to alumni and enables sharing of their vast National and International knowledge and experience with students for widening their horizon. A significant contribution of EXTC Alumni in knowledge dissemination was as follows:

- Mr. Sukalp Kamdi (EXTC-2017), Lead Engineer-Communication, TATA Power Company Ltd., Mumbai, spoke on the topic "Communication Systems in Power Utility". This webinar was conducted on 20th August 2022, and was open to all students.
- Mr. Anish Kumar Singh (ME EXTC-2017), Assistant Divisional Engineer Telecom, Ministry of Communications, Government of India, spoke on the topic "How to Crack ESE, GATE, PSU's in First Attempt". This webinar was conducted on 18th August 2022, and was open to all students.
- Mr. Prashant Gokhlani (EXTC-2014), Senior Section Engineer at Indian Railways spoke on the topic "Lucrative careers in Indian Railways and other Elite Services". This webinar was conducted on 29th July 2022, and was particularly for the Third-year EXTC students.



Invitation poster for webinar by Mr. Sukalp Kamdi



**Invitation poster for webinar by Mr. Anish Kumar Singh** 



Invitation poster for webinar by Mr. Prashant Gokhlani

# SECOND YEAR ACHIEVEMENTS

#### **MODEL UNITED NATIONS**

The Model United Nations (MUN) are simulations of the UN General assembly where students are appointed to be delegates of various countries and they have to represent their countries and debate on various global issues such as climate change or geopolitics. An inter-college MUN was held at **Vaze college** of Arts Science and Commerce, Mulund on **3rd** and **4th December 2022**. **Hritika Mulay** was the delegate of Switzerland and was awarded a **Verbal Mention** for her debate skills and excellent knowledge of geopolitics.



Hritika Mulay

#### **BEST LIBRARY USER AWARD**

The VESIT Central Library, grants three Best Library Users honours to students who have made the best use of the library's materials and services. This encourages all students to visit our well-equipped library and use its resources. One of three prizes was handed to **Snehal Patil** from **D9B** by our revered Principal **Dr. J. M. Nair** on the occasion of Vachan Prerna Divas celebrated on **15th October 2022** for her good use of the library facility to immerse herself in literature and knowledge from **1st July** to **31st September.** 



Snehal Patil receiving the award from Principal Dr. J.M Nair mam and other faculty members.

#### **VESLIT X UBI WEEK**

**VESLit Circle** in collaboration with **Union Bank of India** conducted a Literary Fest, from **25th September** to **3rd October** in the light of **Vigilance Awareness Week**. The theme for this event was "Corruption-free India for a developed nation."

- There were four events conducted namely, Debate, Essay writing, Natak competition and Poster making. All of them had topics related to Finance and Accounting. the Essay writing competition, the participants had to submit their essays by 30th September 2022 on the topic, 'Corruption-free India for a developed Nation'. Snehal Patil secured the third position with her inspiring essay.
- After rounds of fiery Debates, Hritika Mulay along with her teammate Atharva Shiveshwarkar from the Electronics department were able to grab the position of First Runner up, in spite of getting a very challenging topic, "Amendment of PCA is a threat to the general public".



**Snehal Patil** 



Hritika Mulay

#### **GAME OF SHOWS**

A fun trivia competition called 'Game of shows' was held by the VESLit Circle in collaboration with the SORT Council. It was a quiz based on TV Shows and Movies organised for the fundraiser Spectral '22. All the money collected from the registrations was donated to the Khushiyaan Foundation, Thane. The second-year students Ashish Nair, Pranav Jha and Anshkumar Agrahari from D9A secured 2nd place in this competition, by showing their excellent knowledge of Drama series "Game of Thrones".



Anshkumar Agrahari



**Ashish Nair** 



**Pranav Jha** 

#### THE SPECTACULAR SPECTRAL

The 'Spectral '22' was a rocking fundraiser held by the SORT Council in collaboration with the VESLit Circle and VESIT Music Council. The final day hosted the main event 'Talent Aid' - an open stage fundraiser through which they were able to collect a ground-smashing amount of Rs 22,000 which was donated to the Khushiyaan Foundation, Thane.

Aadarsh Dubey and Aniket Ratha hosted the event. Siddharth Patil and Vedant Patil impressed everyone with their mesmerising singing. Kartikey Shukla had everyone rolling in the aisles with his standup.



**Aadarsh Dubey & Aniket Ratha** 



Siddharth Patil



**Vedant Patil** 



**Kartikey Shukla** 

#### **VESIT CHESS MASTERS**



L-R: Sakshi Gawale, Aditi Boob, Anoushka Menon

The VESIT sports council conducted the Indoor Sphurti 2022-23 from 19th September 2022, with an aim of promoting various indoor sports (Table tennis, Darts, Carrom, Chess) across all departments of the college. The D9 girls Sakshi Gawale, Aditi Boob and Anoushka Menon were the Winners in the final round of Chess, conducted on the 3rd and 4th October 2022.

Aditi Boob of class D9 also secured the Most Valuable Player (MVP) position in Chess.

#### TREASURE HUNT FOR ENGINEERS

The VESIT cultural council conducted a mind-boggling Treasure Hunt on the occasion of Engineer's Day on 15th September 2022. It got everyone on their heels, as all the participants foraged for clues throughout the college. The girls from D9B, Bhakti Daga, Palak Lalwani, Ridhi Solanke, and Komal Tilokani bagged First place.



L-R: Bhakti Daga, Palak Lalwani, Riddhi Solanke, and Komal Tilokani with Sejal Bishoyi and Shruti Dalvi.

### THIRD YEAR ACHIEVEMENTS

#### REIGNING SHUTTLERS

An Inter-VES Badminton Tournament, 'Shri. Vasudev Valecha Badminton Cup 2022-23' was conducted between all VES Institutes (Architecture, Engineering, Management, Polytechnic, Law, Pharmacy, Degree college, Jr. college, Business school) under the Hashu Advani Memorial Annual Sports Festival 'Champions 2022-23'. The Third-year EXTC students Harsh Ranjan and Tanmayee Bochare were a part of the team apart from Sahil Deshmukh, Shreya Hegde, and Krish Jakharia, who represented VESIT.

The finals were held on **17th December**, **2022** at the campus of VES Polytechnic College, the team emerged as Winners in both singles and mixed Doubles (boys) finals. By taking into consideration the collective scores, the group of VESIT bagged the Runner Up position in the overall Tournament.

In addition, Harsh Ranjan was also titled with the honour of 'Most Promising Player.'



The VESIT team receiving the Runner-Up trophy L-R: Harsh Ranjan, Shreya Hegde, Sahil Deshmukh, Tanmayee Bochare



Harsh Ranjan receiving the trophy for the Most Promising Player

#### TABLE TENNIS TITLEHOLDERS



**Aniket Sangle** 



Harsh Ranjan

Indoor Sphurti is always a stage for all the sports enthusiasts at VESIT to demonstrate their sportsmanship, compete against each other and enjoy simultaneously. With 18 teams competing in 4 vivid sports (Table tennis, Darts, Carrom and Chess) the VESIT sports council conducted the Indoor Sphurti 2022-23 from 19th September, 2022. Harsh Ranjan (D14A) and Aniket Sangle (D19A) emerged as Winners in finals of Table-Tennis Doubles, conducted on the 3rd and 4th October, 2022.

#### THE THEATRICALS

VESLit Circle in collaboration with Union Bank of India conducted a Vigilance Awareness Week from 31st October to 6th November, 2022 wherein the events promoted awareness among the people and gave a subtle way of thinking to people. One of the events conducted was 'Naatak' - a group Drama event, based on the theme Ethics. The event was conducted on the final day of the VESLit Week, i.e on 6th October, 2022. Sumit Jadhav (D19A), Jayesh Utekar (D14A), and his team of troupers gave an outstanding and startling drama performance titled 'KARZ' and earned the title of Winner of the competition.



L-R: Sumit Jadhav, Jayesh Utekar and Isha Gawde



Jayesh Utekar receiving the trophy from the representatives of UBI

#### **BEST LIBRARY USER AWARD**

The VESIT Central Library, gives away three awards to the **Best Library Users** every three months, to the students who have made maximum use of the library resources and facilities. This motivates all the students to make the best use of our well-equipped Library.

One of the 3 month term award was presented to **Atharva Petkar** from **D14B** by our revered Principal **Dr. J. M. Nair** on the occasion of **Vachan Prerna Divas** on **15th October 2022** for his excellent usage of the library facility.



Atharva Petkar receiving award from Principal Dr. J.M Nair and other faculty members

#### **MISFIT MUSICAL RIDE**

When Harmony and Rhythm combine with fun activities it's like adding the cherry on the cake. VESIT Music Council organised a three-day fun event named 'Musical Misfit' from 26th to 28th September 2022, which included fun games and mystery notes. Mitlesh Shinde of D14A and his enthusiastic team members Yash Sarang, Kshitij Shidore, and Shruti Devlekar of 'WallflowersUwU' won the event by achieving the First position.



L-R: Shruti Devlekar, Mitlesh Shinde, Kshitij Shidore and Yash Sarang

#### **CREATIVE CONTENT CREATOR**

VESIT Student's Club under AICTE SPICE Scheme in collaboration with VESIT Photo Circle conducted a Reel Contest in order to celebrate 'Har Ghar Tiranga' which is a campaign under the aegis of Azadi Ka Amrit Mahotsav to encourage people to bring the Tiranga home and hoist it to mark the 75th year of India's Independence on 28th August 2022. The theme for the reel was '17 Sustainability Goals' and the duration of the reel had to be 45-60 seconds.

**Rajat Mhatre** of **D14B** created a reel on one of the 17 Sustainable goals (Life on land) in which he portrayed the importance of wildlife and nature in our ecosystem and obtained the **First Runner-Up** position along with a cash prize of Rs.1000.



**Rajat Mhatre** 

### FINAL YEAR ACHIEVEMENTS

#### **DAUNTLESS DEBATERS**

**VESLit Circle** in collaboration with **Union Bank of India** conducted its annual Literary Fest in the light of Vigilance Awareness week based on the theme "**Corruption-Free India for a Developed Nation**."

After an Informative and Admirable war of words, the final year EXTC students, **Rahul Kulkarni** and **Aakanksha Jadhav** not only cleared the elimination rounds, but also emerged as the Winners in the finals of the Debate competition conducted on **3rd October 2022.** 



Rahul Kulkarni and Aakanksha Jadhav

## REFLECTIONS

# EDITORIAL TEAM VOLUME 16



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