REFLECTIONS

THE EXTC TIMES

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A MESSAGE FROM THE DEPARTMENT

Dear students,

We are aware of the fact that engineers are considered as backbones of any nation as progress and prosperity of any nation mostly depend on skills and efforts exerted by them. After your education, you are also going to become part and parcel of such a team. Keeping this in mind as a student you must remember that time is equal to rather more than money. You should utilize this time for study as well as for your and nations better tomorrow. You must believe in your capabilities with fullest confidence. You must trust your own esteem so as to bring the future life entirely under your control. You should remember that there is always sunshine after the dark night. So, trust yourself and work hard and success will be achieved automatically. As a student you are also expected to take lesson from each and every mistake or problem faced during study. You must set proper goals and proper planning to achieve targets and better future.

It is important that you must always select and approach for novel project during your engineering studies. If a project is novel, you can apply for patents and copyright. IPR can provide security as well as monopoly privilege to the institute and the student so as to develop such ideas commercially also. If you are able to get some patents during your studies, it will be highly useful and helpful for start-ups, jobs and building strong letter of recommendation for masters. IPR cells provide assistance to students for displaying their work and attracting potential buyers of technology, ideas or products. Thus, finally useful in the commercialization of a product. So far as registration of patents is considered, it may be one month to four months or so depending on the queries between the student, attorney, patent officer and faculty member. The final grant of a patent may take few years.

Imagine a classroom where students create meaningful solutions (think tangible product prototypes) that have a positive impact on the world. That's the basic premise behind Design thinking. Design Thinking is a mindset and framework that helps educators use a human- centered process to teach students problem-solving. While selecting project, select projects that encourages students to tackle real-world challenges.

According to a recent presentation by Stanford University, Design Thinking helps children learn "that they have the power to change the world." Moreover, that they can change it now, rather than waiting until they are older. Students work in teams to build process-based skills, including communication, prototyping, empathy and collaboration, as they solve real-life problems.

Best wishes for success and a bright future!

Mrs. Manisha Joshi
Assistant Professor
Electronics and Telecommunication Department
Vivekanand Education Society's Institute of Technology, Chembur.

ACCOMPLISHMENTS

- Department of EXTC congratulates **Dr. (Mrs.) Monali Chaudhari, Assistant Professor, EXTC**, on her momentous achievement of completing her Ph.D. degree from Sir Padampat Singhania University in August, 2021. Her thesis, titled '**Hybrid Energy Harvesting aware LEACH protocol for WSN**', focuses on providing real-time meteorological data for improving the energy efficiency and lifetime of the sensor network. Her expertise domains include Image Processing and Wireless Sensor Networks.

Dr. (Mrs.) Monali Chaudhari

- In association with the Department of Electronics and Telecommunication Engineering, Instrumentation Engineering, and VESIT-IIC, and under the Guidance of VESIT IQAC, VESIT Renaissance Cell organized a Faculty Development Program on '**Electric Vehicles**' from **5th to 9th July, 2021**. This program was sponsored by AICTE Training And Learning Academy. **Dr. (Mrs.) Monali Chaudhari** was the FDP Co-coordinator and **Mr. Mrugendra Vasmatkar** from the EXTC department were a part of the organizing committee. This training program intends to impart a broad theoretical, practical, and design background in the area of Electrical Vehicles. This program boasted of a plethora of highly distinguished speakers like **Dr. Sadeep Sashidharan (Sr. Application Engineer, PWSIM Engineering Solutions , Bangalore), Mr. Rakesh Tyagi (Customer Service Manager, AVL India Private Limited), Dr. M. Sivakumar (Engineer at SCSVMV university)** and many more.

Poster for FDP on 'Electric Vehicles'

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- In association with the Department of Electronics Engineering, MCA and VESIT-IIC, and under the Guidance of VESIT IQAC, VESIT Renaissance Cell organized a Faculty Development Program on '**Cyber Security'** from **5th to 9th July, 2021**. This program was sponsored by AICTE Training And Learning Academy. **Dr. Nadir Charniya** from the EXTC department was the chief FDP coordinator. This training program envisaged to disseminate about the present-day importance of cyber security, its laws and methods to meet the new age attacks. It included numerous informative sessions conducted by highly esteemed professionals of the industry, like **Dr. Prashant Lokhande(Consultant Cyber Crime Branch, Navi Mumbai), Mr. Yogendra Khaire(Security expert, Adani electricity), Mr. Vicky Shah(Cyber Lawyer)** etc.

Poster for FDP on 'Cyber Security'

FELICITATION CEREMONY

5th September is celebrated as Teacher's day all over India to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan. On this occasion, our college VESIT felicitates teachers who have completed 20 years of their service. This year **Mrs. Manisha Chattopadhyay, Associate Professor, from EXTC department** was felicitated for her 2 decades of dutiful and praiseworthy service to our department. The VESIT staff welfare committee organized this event.
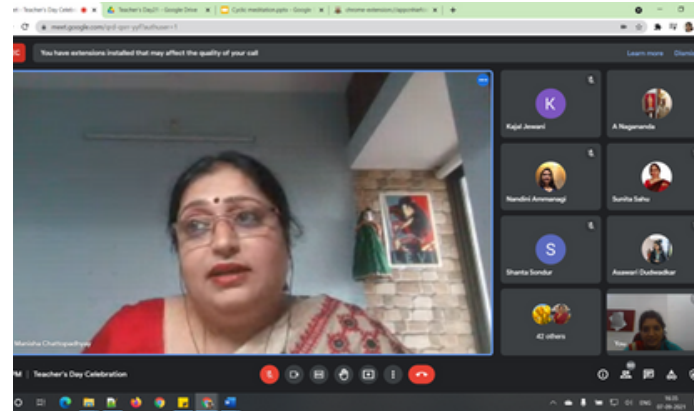
Felicitation of Mrs. Manisha Chattopadhyay

ACADEMIC RESULTS

Students of the EXTC department have proved that dedication and learning leads to excellent outcomes. Department feels immensely proud to announce that our students of second year, third year and final year have aced the examinations and achieved a 100% result in the even semester. Kudos to all students who have performed exceedingly well in examinations.

SECOND YEAR RESULT MAY-2021

100%
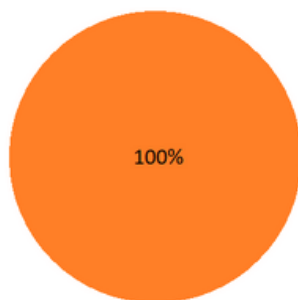
THIRD YEAR RESULT MAY-2021

100%
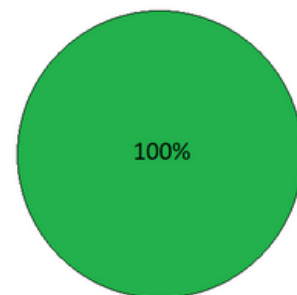
FOURTH YEAR RESULT MAY-2021

100%
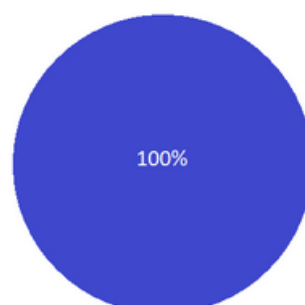
The final year students who bagged the meritorious positions are listed below:

Final Year -MAY-2021		
Name	**CGPA**	**Rank**
Masaye Poonam Ramesh Renuka	9.89	First
Parab Bhakti Shashikant Sadhana	9.76	Second
Khan Juveriya Gulam Hussain Qamar Jahan	9.74	Third
Mandal Ankita Asim Kumar Tanusri	9.71	Fourth

PLACEMENT STATISTICS

In the present era, campus placement holds a great importance for students and educational institutes. This academic year, EXTC students are placed in renowned organizations with very good packages. A total of **71 offers** were made and **61 students** got placed in established companies like **JPMC CFG, IVP, Deloitte, TSS, Accenture, L&T IT, Capgemini, Quantiphi, EY, TCS, EVOsys** till date. These include **14 dream offers** and **4 core job offers**. Details are as follows:


EVO Sys: 1.4%
JPMC-CFG: 1.4%
TCS Ninja: 10.0%
Indus Valley Partners: 1.4%
Deloitte: 10.0%
Selec Control: 5.7%
Quantiphi: 4.3%
Capgemini: 20.0%
TSS: 1.4%
LTI: 5.7%
EY: 10.0%
Accenture: 28.6%

Legend: JPMC-CFG, Indus Valley Partners, Deloitte, Selec Control, Quantiphi, TSS, LTI, EY, Accenture, Capgemini, TCS Ninja, EVO Sys
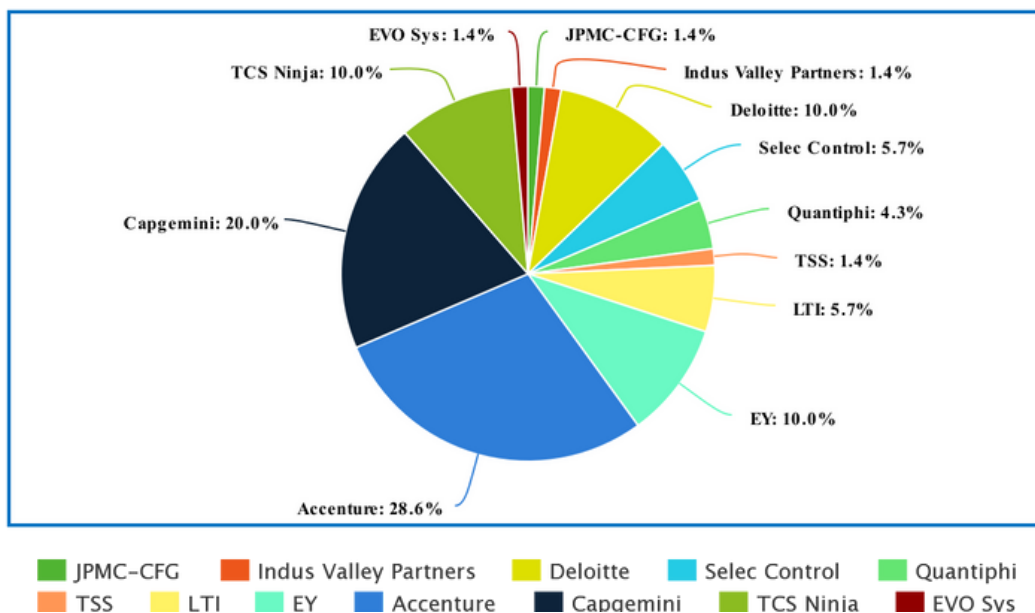
Placements as of 10th November, 2021

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, 2021-22 for the student to prepare for the placement process. The activities were conducted by the staff members of the college which include: online Mock Aptitude Tests (MAT), various sessions on Campus Placement: Eligibility, Employability & Resume building, Resume Writing & Skill Set Analysis, Transactional Analysis, Aptitude Training Course (ATC) etc.
The details of the activities are as follows:

Sr. No	Date	Time	Topic	Resource Person	Class & No. of students attended
1	13/09/2021	11:00pm-1:00 pm	Eligibility, Employ-ability and Resume Building	Prof. A. Nagananda	SE D9 A & B (78)
2	18/09/2021	10:30am-12:30 pm	Resume Writing, & Skill Set Analysis	Prof. A. Nagananda	TE D14 A & B (64+56)
3	03/09/21	10:30am to 12:00pm	Finishing School on Enhancing Coding Skill	Ms. Sukanya Roychaudhary	D19A & B (34)
4	08/08/21	10:30am to 12:00pm	ITn for Non-IT-Session on Fundamentals of JAVA	Mr. Sunny Nahar	D19A & B (77)
5	24/07/21	10:00am to 12:00pm	Finishing School on Digital Electronics	Mrs. Manisha Joshi	D19A & B (57)
6	17/07/21	10:00am to 12:00pm	Finishing School on Analog Electronics	Mrs. Rasika Naik & Mr. Chintan Jethva	D19A & B (76)
7	July 01 to July 06, 2021	2 pm to 3:30 pm	Aptitude Training Course (ATC)	Mr. Shobhit Khandare	D19
8	June 28, 2021	11:30am to 1:00pm	Transactional Analysis	Mr. Nagananda	D14A & D14B 48
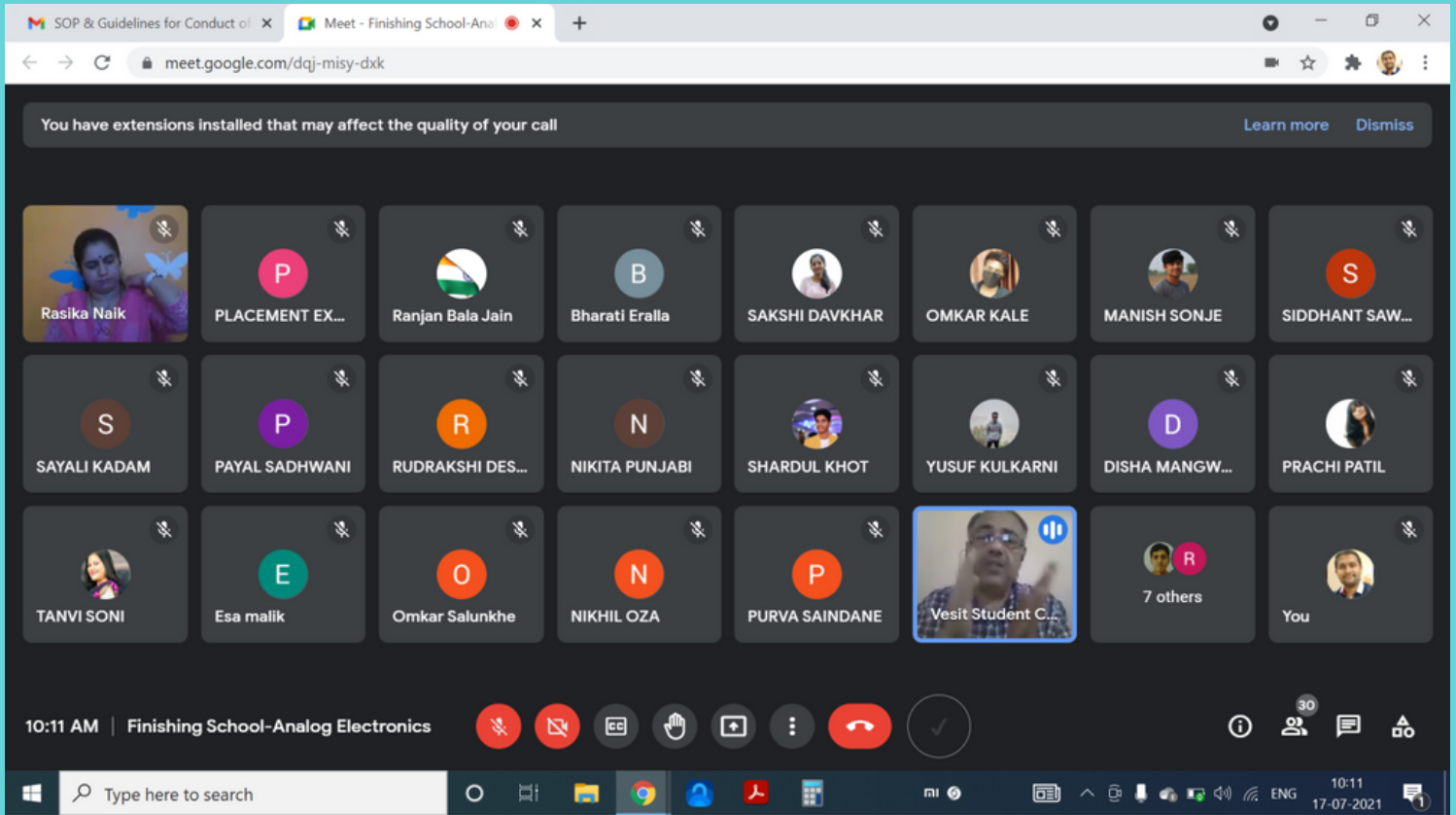
Finishing school on Analog Electronics on July 17, 2021

RESEARCH PAPERS PUBLISHED

- **Mrs. Manisha Joshi** published "**Covid-19 Based Automated Screening System**" in the "Proceedings of the Second International Conference on Smart Electronics and Communication (ICOSEC)", **October, 2021**.

- **Dr. (Mrs.) Nandini M. Ammanagi** and **Ravi M. Yadahalli** published a research paper: "**Slot Loaded Capacitive Fed Suspended RMSA with Meandered Ground Plane: A Recent Study**" as a book chapter in the "International Journal New Approaches in Engineering Research Vol. 14 (Page 50-58)", **25thAugust, 2021**.

- **Dr. (Mrs.) Ranjan Bala Jain** published "**Severity Classification of Diabetic Retinopathy using Customized CNN**" in the "5th International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI-2021)", **August, 2021**.

- **Mr. Gaurav Tawde** published "**Smart Parking Model using Ultrasonic sensor and Arduino for a Bluetooth Controlled Car**" in the "International Research Journal of Engineering and Technology (IRJET) Volume: 08", e-ISSN: 2395-0056, **July, 2021**.

- **Mrs. Shoba Krishnan, Dr. Nadir N. Charniya** and **Mr. Piyush Pakhare** published "**A Survey on Recent Advances in Cyber Assault Detection using Machine Learning and Deep Learning**" in the "International Conference on Sentimental Analysis and Deep Learning (ICSADL 2021)", Print ISBN: 978-981-15-9650-6, Online ISBN: 978-981-15-9651-3, **June, 2021**.

- **Mrs. Shoba Krishnan, Dr. Nadir N. Charniya and Mr. Piyush Pakhare** published "**Malicious URL Detection using Machine Learning and Ensemble Modelling**" in the "International Conference on Computer Networks, Big Data and IoT (ICCBI 2020)", Print ISBN: 978-981-16-0964-0, Online ISBN: 978-981-16-0965-7, **June, 2021**.

- **Mr. Shobhit K. Khandare** published "**Lane Assist and over speed Detection of Vehicle to avoid road accidents**" in the "6th International Conference on Engineering Research & Innovation, Vol. 1, Issue 1",Print (ISSN-2349-5162), **June, 2021**.

- **Mrs. Ashwini Sawant** published "**Performance Analysis of Medical Image Denoising Techniques**" in the "International conference on "Image Processing and capsule networks (ICIPCN 2021)", **May, 2021**.

WORKSHOPS CONDUCTED

- **Mr. Mrugendra Vasmatkar** conducted a workshop on the topic "**VLSI Technology 1.0 - VHDL Programming and IP Implementation Through FPGA**" in association with VCET IETE-SF on **13th October, 2021**.

- **Mr. Mrugendra Vasmatkar** conducted a workshop on the topic "**VLSI emerging tools and Its applications**" in association with M. H. Saboo Siddik college of engineering on **8th August, 2021**.

- **Dr. (Mrs.) Monali Chaudhari** and **Mr. Mrugendra Vasmatkar** assisted in conducting a Faculty Developed Program on the topic "**Electrical vehicles**" in association with ATAL Academy and VESIT during **5th-9th July, 2021**.

- **Dr. Nadir Charniya** aided in organizing a Faculty Developed Program on the topic "**Cyber Security**" in association with ATAL Academy and VESIT during **5th-9th July, 2021**.

WORKSHOPS ATTENDED

Today, the world is trying to break the shackles of the pandemic and trying to make peace with the new normal. Observing that the education is moving toward a hybrid model of online and offline learning, provisioning resources for dual mode operations is the need of the hour. After having been accustomed to the virtual mode of teaching, Online Workshops remained the go-to standard for teachers and students both. This semester witnessed the participation of the Faculty of the Department of Electronics and Telecommunication in the workshops organized by the ATAL academy like "**Soft Computing Techniques and their Applications in Electrical Engineering**" and "**Electric Vehicles**", and other valuable seminars like "**Blockchain and its application**", "**Cyber Security**", "**Smart Antenna and its role in 6G Communication**" etc.

ORIENTATION PROGRAMS CONDUCTED

- The Department of Electronics and Telecommunication Department organized a "**Online Orientation Programme**" of Elective subjects offered by Mumbai University for the upcoming Semester VI and Semester VIII on 14th November, 2021. The mentors briefed about the pre-requisite, importance and future scope of department level and institute level elective subjects to help the students to make a choice of their interest. **Department level electives** included : '**Computer Organization and Architecture**', '**Digital Forensics**', '**Database Management**', '**Radar Engineering**' for third year students and '**Satellite Communication**' and '**Network Management**' for final year students. **Institute level electives** included : '**Project Management**', '**Finance Management**', '**Entrepreneurship Development and Management**', '**Research Methodology**' and '**Environmental Management**'.

- **Mr. Mrugendra Vasmatkar** conducted an orientation program on "**Mini Project-2A: Embedded system Design**" organized by **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.

- **Mrs. Neeta Chavan** conducted an orientation program on "**Data Compression and Cryptography**" organized by **Don Bosco Institute of Technology**, Kurla, Mumbai on **12th July, 2021**.

- **Mrs. Ashwini Sawant** conducted an orientation program on "**Random Signal Analysis**" organized by **Fr. C. Rodrigues Institute of Technology**, Vashi and **Padmabhushan Vasant Dada Patil Pratishthan's College of Engineering**, Sion, Mumbai on **9th July, 2021**.

ORIENTATION PROGRAMS ATTENDED

The faculty of EXTC department have attended various orientation programs for third year curriculum, Rev - 2019 'C' Scheme syllabus. Details are as follows:

- **Dr. Nadir N. Charniya**
  - An orientation programme on "**Data Compression and cryptography (ECCOLO 5012)**" at **Don Bosco Institute of Technology**, Kurla, Mumbai on **12th July, 2021**.

- **Dr. (Mrs.) Ranjan Bala Jain**
  - An orientation programme on "**Random Signal Analysis (ECC504)**" at **Fr. C. Rodrigues Institute of Technology**, Vashi, Navi Mumbai and **Padmabhushan Vasant Dada Patil Pratishthan's College of Engineering**, Sion, Mumbai on **9th July, 2021**.

- **Dr. (Mrs.) Saylee Gharge**
  - An orientation programme on "**Data Compression and cryptography (ECCOLO 5012)**" at **Don Bosco Institute of Technology**, Kurla, Mumbai on 12th July, 2021.

- **Mrs. Rasika B. Naik**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation programme on "**Data Structures and Algorithm (ECCOLO 5014)**" at **Anjuman-I-Islam's Kalsekar Technical Camus. School of Engineering & Technology**, New panvel on **12th July, 2021**.

- **Mrs. Manisha Joshi**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation program on "**Digital VLSI, ECC503 & ECL 503**", at **Atharva College of Engineering**, Malad on **10th July, 2021**.
  - An orientation program on "**Discrete Time Signal Processing**" at **Fr. C. Rodrigues Institute of Technology**, Vashi, Navi Mumbai on **9th July, 2021**.

- **Mr. Mrugendra Vasmatkar**
  - An orientation programme on "**Data Structures and Algorithm (ECCOLO 5014)**" at **Anjuman-I-Islam's Kalsekar Technical Campus. School of Engineering & Technology**, New panvel on **12th July, 2021**.

- **Mr. Shobhit K. Khandare**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology, Thane** on **15th July, 2021**.
  - An orientation programme on "**Data Compression and cryptography (ECCOLO 5012)**" at **Don Bosco Institute of Technology**, Kurla, Mumbai on **12th July, 2021**.

- **Mrs. Ashwini Sawant**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation programme on "**Digital Communication**" at **SIES Graduate school of Technology**, Navi Mumbai on **12th July, 2021**.
  - An orientation program on "**Discrete Time Signal Processing (ECC 502 and ECL 502)**" at **Fr. C. Rodrigues Institute of Technology**, Vashi, Navi Mumbai on **9th July, 2021**.

- **Mr. Chintan Jethva**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation programme on "**Data Compression and cryptography (ECCOLO 5012)**" at **Don Bosco Institute of Technology**, Kurla, Mumbai on **12th July, 2021**.

- **Mrs. Arti Sawant**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501**)" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation programme on "**Data Compression and cryptography (ECCOLO 5012)**" at **Don Bosco Institute of Technology**, Kurla, Mumbai on **12th July, 2021**.

- **Mrs. Jyoti Bagate**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.

- **Mrs. Anuradha Jadiya**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation program on "**Discrete Time Signal Processing (ECC 502 and ECL 502)**" at **Fr. C. Rodrigues Institute of Technology**, Vashi, Navi Mumbai on **9th July, 2021**.

- **Mr. Guarav Tawde**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.
  - An orientation programme for the course of "**Digital & IPTV Engineering (ECCDLO5011)**" at **Terna Engineering College**, Nerul, Navi Mumbai on **14th July, 2021**.
  - An orientation programme on "**Data Structures and Algorithm (ECCOLO 5014)**" at **Anjuman-I-Islam's Kalsekar Technical Campus. School of Engineering & Technology**, New panvel on **12th July, 2021**.
  - An orientation program on "**Digital VLSI, ECC503 & ECL 503**", at **Atharva College of Engineering**, Malad on **10th July, 2021**.

- **Mrs. Himali Patel**
  - An orientation program on "**Mini-Project 2A :Embedded System Project (ECM501)**" at **A.P Shah Institute of Technology**, Thane on **15th July, 2021**.

SKILL ENHANCEMENT LECTURES

- **Dr. Binoy Goswami, Head, Laser Applications Section (Retired)**, was the speaker on the topic "**New Frontiers in Controls and in ultra-secured fibre-optic communication: Control of Generalised Multistability and communication using chaotic laser light**", for the subject Optical Communication, for final year EXTC students on the 3rd August, 2021.
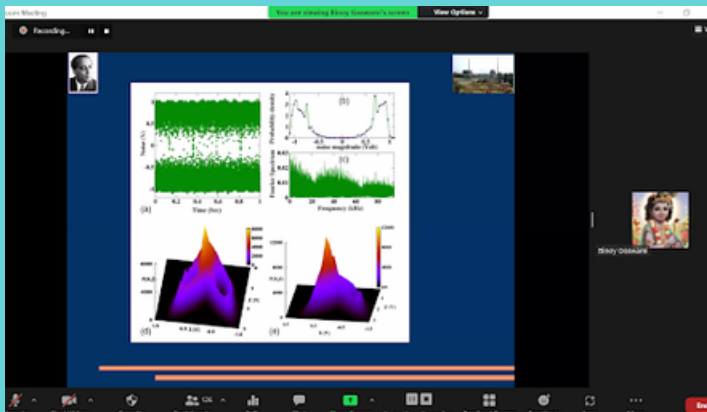
SEL on 'New Frontiers in Controls and in ultra-secured fibre-optic communication: Control of Generalised Multistability and communication using chaotic laser light'

The speaker commenced the session by a lucid description of his discovery and its utility in numerous branches of engineering. He passionately apprised about the fascinating world of synchronised chaotic lasers and the quantum leaps in this domain. He spotlighted future scope of works and encouraged students to pursue research. 131 highly enthusiastic students attended the lecture and imbibed from the wealth of knowledge of the speaker.

- **Mr. Vikas Singh, Chief RF engineer, NESA Radiation Solutions Pvt. Ltd**, was the speaker for a skill enhancement lecture on the topic "**Radiation Hazards and remedies**" for the subject Mobile Communication, for the final year EXTC students, on the **7th of August, 2021**.
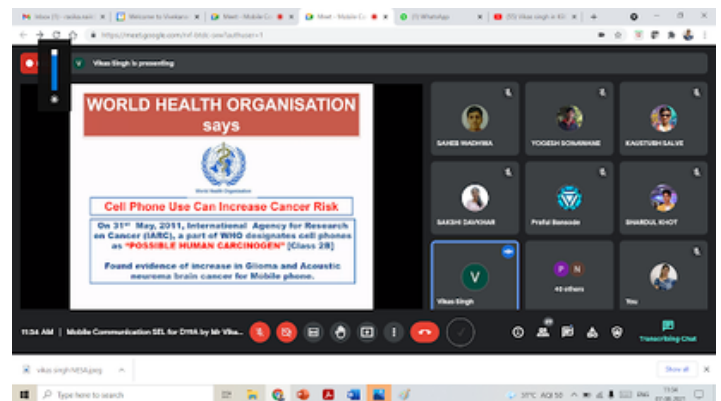
SEL on 'Radiation Hazards and remedies'

The session was initiated by making the attendees wary of genesis of radiation and cell tower radiation perils. The scale of Radiation hazards and its deleterious effect on the human body and its far reaching consequences on residences and societies was discussed. Finally, the speaker put forth the NESA (Non-Ionizing Electromagnetic Shielding Alternatives) products like Cell Tower Radiation Absorbing Shielding Fabric Curtain, Cell Tower Radiation Absorbing Shielding Window Films, etc which aided in the diminution of radiation.

- **Dr. (Mrs.) M. Vijayalakshmi, Vice-Principal, VESIT**, was the speaker for skill enhancement lecture on the topic "**Machine Learning, Artificial Intelligence & Cyber Security-The Future of Cyberspace**" for the elective subject Data Compression and Cryptography for third-year EXTC students on the **18th October, 2021**.

- **Dr. Ashwini Gajarushi**, **Senior Technical Officer, IIT Bombay,** was the speaker on the topic "**Integrated Circuit fabrication technology**", for the subject Electronic Devices and Circuits, for second year EXTC students on **10th November, 2021**.

SEL on 'Machine Learning, Artificial Intelligence & Cyber Security-The Future of Cyberspace

SEL on 'Integrated Circuit fabrication technology'

The rudiments of Machine learning, Artificial intelligence, and its confluence with cryptography was expounded initially. The speaker made the students abreast of the cutting edge cryptographic techniques developed and the revolutionary role of AI and machine learning algorithms in the field of cybersecurity. Subsequently, the future scope in cyberspace, research and job opportunities were discussed.The session culminated with a wholehearted vote of thanks by student representatives and faculty in charge on behalf of the students and department.

The speaker introduced the students to an efficacious concept of miniaturization which led to the invention of scaled-down transistors and Silicon based technology development. The evolution of Integrated Circuits (ICs) was covered in meticulous detail in a chronological order. The topics like Fabrication of circuits on Silicon Wafer and Internal structure of IC 555 were illustrated to the students in an engaging manner. The session concluded by acquainting the attendees with diverse research areas in VLSI and the rise of nanoelectronics labs in India.

ALUMNI INTERACTION

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)**, "**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.

Especially during these unprecedented times of the COVID-19 pandemic and looking at the lockdown situation, V-REACH has tried to unlock the Teaching-Learning innovatively, through its inceptive series of 14 webinars commencing from **2nd August to 26th August 2021**, which was streamed on VESIT's official YouTube channel. A significant contribution of EXTC Alumni towards V-REACH'21 was as follows:

Invitation poster for webinar by Dr. Siddhartha Raja and Mr. Ameya Puranik

- **Dr. Siddhartha Raja, Regional Cluster Lead for South Asia, World Bank Country Office, Kathmandu, Nepal,** spoke on the topic "**Odyssey to the Pinnacle**". This webinar was conducted on **4th August, 2021**, in which he confabulated about his journey to the zenith of his professional career and his reminiscences of his lively days in the college.

- **Mr. Ameya Puranik, a Security Specialist, Northwave Intelligent Security Operations, Netherlands, UK,** spoke on the topic "**Engineering to Forensics**". This webinar was conducted on **4th August, 2021**, in which he provided an articulate account of his experiences and insightful description of his job portfolio in Forensics.

Invitation poster for webinar by Yogesh Sharma, Rajasi Desai, Neha Chaudhari and Preeti Wadhwa

- **Yogesh Sharma, a Senior Program Manager, Cloud & AI Security – Microsoft, USA**, spoke on the topic "**Decennium in Vocation**". This webinar was conducted on **17th August, 2021**, in which he vividly described the past ten amazing years of his life, his learning, struggles and the way ahead. He also unraveled some insider secrets of nailing the interview of the Fortune Global 500 companies.

- **Rajasi Desai (UX Specialist, The MathWorks/ Natick, Massachusetts, USA), Preeti Wadhwa(Senior Engineer, Qualcomm (5G WRND) San Diego, USA), and Neha Chaudhari (Trading Risk Manager, Cambridge Global Payments, Toronto, Canada)**, spoke on the topic "**The Power of Women in Technology: Triumphs and Challenges**". This webinar was conducted on **17th August, 2021**, in which they reflected on their awe-inspiring voyage from VESIT to the technology industries.

PROJECT EXHIBITION

- In Association with IIC and IQAC, the department of Electronics and Telecommunication Engineering organized an Online Project Exhibition E-SANCHAR 2021. This event was successfully organized by **Dr. C. D. Rawat, Mrs. Manisha Joshi, Mrs. Ashwini Sawant and Mrs. Neeta Chavan**. The final year projects covered 6 trending domains of the industry namely Antenna, Wireless Network, Embedded System, IoT, AI-ML and Signal and Image Processing. The projects were adjudicated based on the tracks given below:

  Track 1 - Safety & Disinfection During Covid-19 - 6 Projects
  Track 2 - Social Projects   - 8 Projects
  Track 3 - Security & Surveillance   -   4 Projects

Students put their coding and hardware proficiency at work and implemented their ingenious ideas into a project. The project "**Human Gaze Controlled keyboard**", made by Pratik Manurkar, Varad Mapuskar, Mrunal Panari, Rochana Desai of group B4, under the guidance of Dr. C. D. Rawat secured the first place. The project "**Automatic Ration Distribution System Based on GSM**", made by Devendra Bhavsar ,Gaurav Dawre, Nikhil Gunjal, Kishor Hotkar of group C11, under the guidance of Dr. (Mrs.) Nandini Ammanagi secured second place.

Poster for E-SANCHAR

- In Association with **IIC** and **IQAC**, the department of Electronics and Telecommunication Engineering organized a Project Exhibition competition - **Derive Value from Data (DVD - 2021)** which aimed to showcase projects implemented in Big Data Analytics organized by Dr. Ranjan Bala Jain and Mrs. Manisha Joshi. This provided Final year students a spectacular opportunity to showcase their competency in this domain. Top 14 final year projects related to 'Big Data Analytics' were uploaded on EXTC VESIT's YouTube channel. The winners at first place were the projects titled "**How Spotify is using Big Data**" & "**Stock Market Analysis & Prediction**", second place was the project titled "**Big Data Case Study : Uber**", third place were the projects titled "**Mental Health Data Analysis**" & "**Big Data Analysis for making Web Article Summarizer**". Congratulations to all winners !!!

Poster for Derive Value from Data

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RETIREMENT CEREMONY OF MRS. SHOBHA KRISHNAN

VESIT staff welfare committee and EXTC Department wished their heartfelt compliments to one of the most beloved teachers, **Mrs. Shobha Krishnan, HOD, Electronics and Telecommunications, VESIT**, on her retiral on 31st October, 2021. She has been in this dignified position for over thirty four years now and her service to the department and college has been indispensable. She was always a stalwart teacher and will forever be an inspiring figure in the hearts of many. On this occasion, Shoba madam's son Mr. Aditya Krishnan recited a heartwarming poem which overwhelmed all the faculty members.

An ocean of knowledge which enlightened generations,
Words of wisdom brought about transformation,
Your Simplicity & conduct enthrals everyone,
Feel blessed & lucky to have someone as exceptional,
Clarity of thoughts coupled with a personality par excellence,
You are our hope, belief & inspiration,
Resemble serenity of a flowing river with bliss,
On your retirement I wish you the best,
As you are so different from the rest,
May almighty bless you with happiness & best of health,
Always keep shining like the eternal rays of the sun.

- By Aditya Krishnan

Mrs. Shobha Krishnan with her EXTC family members

Mrs. Shobha Krishnan with her family members

SUPERANNUATION CEREMONY OF DR. RAMESH KULKARNI

The EXTC Department bid an Online Farewell to **Dr. Ramesh Kulkarni, Deputy HOD, EXTC, VESIT**. The entire department organized a virtual function on **29th May, 2021**. Dr. Kulkarni sir - an unwavering and steadfast mentor, a guru, has been assisting our institution for the past several years. His style, an amalgamation of obliging nature and humble personality, has indeed made him like a satellite, connected to every ground station of the EXTC family. He is definitely an asset to the institution and he will forever be an inspiring figure in the hearts of many.
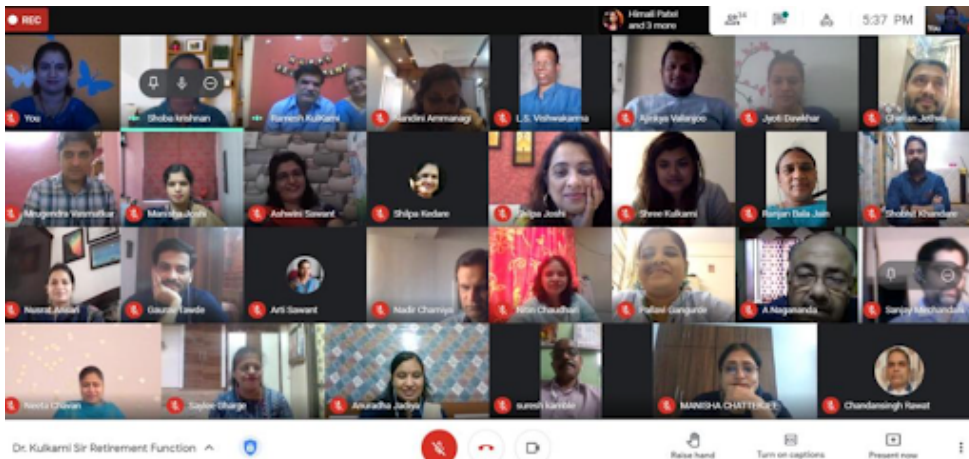
Dr. Ramesh Kulkarni's Online Farewell with EXTC family members

Dr. Ramesh Kulkarni with his family members

STUDENTS ACHIEVEMENTS ODD SEMESTER - 2021

WORKSHOPS AND SEMINAR ATTENDED

Keeping up with the current pandemic situation, online workshops have become the new normal. Even these tough times could not crush the students' enthusiasm to learn new things. Online workshops and seminars became a good medium for the students to get equipped with new concepts. This semester witnessed participation of the students of the **EXTC department** in **eight online workshops and seminars** which included :

- **Cyber Security and Ethical Hacking** organized by **Inmovidu Tech**
- **Campus Ambassador in AIDS Bootcamp** organized by **Vkonex AI**
- **Data Science and Artificial Intelligence Bootcamp** organized by **Vkonex AI**
- **Raspberry Pi and Image Processing Workshop** organized by **VESIT IIC**
- **Design Thinking Workshop** organized by **VESIT IIC**
- **MSP430 Seminar** organized by **EDGATE Technologies**
- **Design The Thinking** organized by **VESIT IIC**
- **Global Virtual Technology Summit PI-WOT 2021** organized by **Pan IIT**

INTERNSHIPS ATTENDED

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. Owing to the work from home situation, a huge crowd of students could take up numerous internships at renowned companies without having to worry about travelling. **65** Students interned in **python, model based design of electrical and electronic systems, machine learning, data encryption, embedded systems, web development**, etc. at 23 companies including **Accenture, Dalvik Apps (DA-WEORG), Decibel Labs Pvt Ltd, Discover Technologies, ECS Academy, Goldman Sachs, Deloitte, Gustovalley Technovations, IEEE by KJ Somaiya, iFortis Corporate, NPHSAT Systems Pvt Ltd, Pantech Solutions, SCINNTC Supply Chain Solutions, SHAPEAI, TCR Innovation, Team Everest (NGO), The Sparks Foundation, UnI (NGO), Unschool, Womenite.**

SCHOLARSHIP RECIEVED BY STUDENTS

- **Mohitsingh Adhikari**, a final year student of the EXTC department, received an amount of **Ten thousand rupees** (₹ 10,000) under the scholarship scheme **"VES Shreshtha Award"**.

- **10 students** of the EXTC department received an amount of **Eight thousand rupees** (₹ 8,000) and **2 students** received an amount of **Ten thousand rupees** (₹ 10,000) under the '**Suman Tulsiani Trust Scholarship**'. Established in 1989, the Suman Ramesh Tulsiani Charitable Trust is a brainchild of now octogenarian couple Smt. Suman Tulsiani and her entrepreneur husband Shri Ramesh Tulsiani. The Trust is dedicated to help and enrich peoples' lives by providing financial assistance for Education, Healthcare, Culture and Welfare.

VALUE ADDED NPTEL COURSE

- **85 Second Year students** of the EXTC department successfully completed the NPTEL course on **'Developing Soft Skills and Personality'**. This course was conducted by **Prof. T. Ravichandran**. It was an 8 weeks course, organized by **IIT Kanpur**.

- **55 Third Year students** of the EXTC department successfully completed the NPTEL course on **'Ethics in Engineering Practices'**. This course was conducted by **Prof. Susmita Mukhopadhyay**. It was an 8 weeks course, organized by **IIT Kharagpur**.

- **118 Fourth Year students** of the EXTC department successfully completed the NPTEL course on **'Entrepreneurship'**. This course was conducted by **Prof. C. Bhaktavatsala Rao**. It was a 12 weeks course, organized by **IIT Madras**.

UTOPIAN CLASS OF VESIT

SORT Council organized a clothes donation drive and the results declared on 25th September 2021 remarked the title " **THE UTOPIAN CLASS OF VESIT** " to **D9B** on the basis of maximum number of donation entries. The drive was for 3 days from **21st September** to **23rd September** 2021 at the college Amphitheater. The participants just had to collect all donatable clothes and click a picture of the donation collection. The drive promoted the act of humanity because it is wisely said that "NO ACT OF KINDNESS,NO MATTER HOW SMALL, IS EVER WASTED".

Donation Drive

SECOND YEAR ACHIEVEMENTS

CRACK-IT

D9A students **Pooja Narayanan , Prathamesh Pradhan , Ashish Golsangi** bagged the **top three achievements** respectively in the Virtual Technical Event **"CRACK-IT"** organized by the **Department of Information Technology of Nagpur Institute of Technology, Nagpur** on the occasion of Engineer's Day on **15th September 2021**. It was an online event containing 20 questions. Each question contained an image, one image was the combination of two different images. The task was to find the correct word which included both images, after keen observation.

Pooja Narayanan (D9A)

Prathamesh Pradhan (D9A)

Ashish Golsangi (D9A)

Awakening the Scientists

The **D9A** Boys team of **Prathamesh Pradhan, Harsh Mohile, Kshitij Nag, Milind Sawant** procured **2nd position** in the event **Awakening the Scientist 2021-22** conducted by the **Humanities & Applied Sciences Department of VESIT**. The participants had to register in teams of 2-4. It was a two round event ; elimination round held on **4th September 2021** and the finals held on **8th September 2021**. **Prathamesh Pradhan** attained the title of "**Most Promising Speaker**". The main objective of the project was to create a voting system which provides transparency and security using blockchain technology. The event was a perfect platform for expressing one's innovative ideas and out-of-box thinking and finding the hidden scientist within.

**Prathamesh Pradhan
(D9A)**

**Harsh Mohile
(D9A)**

**Kshitij Nag
(D9A)**

**Milind Sawant
(D9A)**

VESLit x UBI

In the wake of Vigilance Awareness Week 2021, **VesLit Circle in collaboration with the Union Bank of India** organized a literary megafest. A series of events were planned on the theme : "**INDEPENDENT INDIA@75:SELF RELIANCE WITH INTEGRITY".** The megafest continued for 4 days starting from the **3rd of October** till **6th October 2021**. Most of the events revolved around the topic of **PIDPI Resolution - Public Interest Disclosure And Protection of Informers.** The winners of all the events were declared on the last day of the megafest during the closing ceremony.

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Literary Maestros

Priyal Singh and **Pratham Shetty** of **D9A** class secured **2nd** and **3rd position** respectively, in the Essay Writing Competition, conducted on **6th October, 2021**. The participants had to write an essay on the topic '**Independent India @75:Self Reliance with Integrity** or **PIDP**I', with a word limit of 1000 words. The event had a primary focus on the literature . Their essays provided interesting anecdotes from various timelines of India's independence struggle to today's pandemic struck world .

Priyal Singh
(D9A)

Pratham Shetty
(D9A)

Pooja Narayanan
(D9A)

Anushka Darure
(D9A)

Poster Making

The **D9A** girls **Pooja Narayanan** and **Anushka Darure** secured the **1st and 2nd** positions respectively in **Poster making Competition**. Students were asked to express their ideas and creativity either digitally or in hand drawn format by the **3rd of October 2021**. There was an option to select between the two themes given: **INDEPENDENT INDIA @75:SELF RELIANCE WITH INTEGRITY or PIDPI**. The objective was to convey the themes through beautifully designed posters with vivid ideas and vibrant colors as it is rightly said, "A picture is worth a thousand words ".

Documentary Filmmaking

The team of **Atharva Joshi, Vandesh Sawant, Niraj Divekar, Anuj Bangad, Harsh Rane** bagged the **1st position** in the **Documentary Filmmaking Competition** event organized by **VESLit team** in collaboration with **UBI**, conducted on **6th October 2021**. The topic was **PIDPI** and the duration of the video had to be 3-10 minutes. The participants had to either shoot their own footage, use stock footage or could even use virtual backgrounds and record the same. It was an innovative competition that invited participation from aspiring filmmakers and gave them the opportunity of being featured on national broadcast.

*(L-R) Atharva Joshi (D9A) , Vandesh Sawant (D9A) , Niraj Divekar (D9B)*

Hardware Hustlers

SPRESENSE Board

Samvedan 2021 - Sensing Solutions for Bharat is a national hackathon organized by **IIT Madras and Sony India**. It aims to inspire people of India to solve India-specific problems of societal interest using an IoT sensor board. Under this hackathon, contestants will be asked to develop solutions for societal problems in India. The hackathon challenge will be executed in three stages of quarter finals, semi finals and finals. Prizes worth 3 Lakhs will be awarded to the best teams. Each team will be comprising of max three members. The winners will also be benefitted from the entrepreneurial support scheme by **IIT Madras Pravartak Technologies Foundation**. The hackathon will be based on **Sony Semiconductor Solutions Corporation's presence board**. The hackathon period is from **5th August 2021** to **11th February 2022**. Students participated in teams with a maximum of three members in each team.

The quarter finalist teams are :
1. **Tanya Dubey (D14B), Hridesh Kamal (D14B), Sagar Pujari (D14B)**
2. **Manu Siddharth (D14B), Chelsi Prakash (D14B), Chunay Chaudhari (D14B)**
3. **Risa Samanta (D14B), Aishvarya Birambole (D14A), Saakshi Karkera (D14A)**
4. **Nishant Pathare (D14A), Dhruv Wankhede (D14A)**
5. **Dhaval Mahajan (D14A), Atharva Kulkarni (D14A), Sumit Jadhav (D14A)**
6. **Prajna Moorthy (D14A), Isha Chavan (D14A), V. Anuparvathi (D14A)**
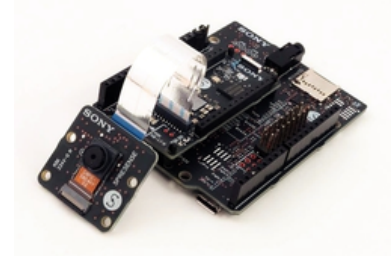
AI-Syberthon

Tanya Dubey and **Yash Bhise** from **D14B** made it to the final round of **AI-Syberthon: Hackathon Uses AI for fraud detection at Bank**. It was a college level competition organized by **VESIT Renaissance Cell** open for third year students only. The winners would get an opportunity to work on the live project of a reputed bank. It was a four days submission based competition. Based on the submission, the top six teams were selected for the final presentation round. The competition was held from **3rd September 2021** to **8th september 2021**.


Tanya Dubey (D14B)

Yash Bhise (D14B)

Coding Geek wins big

Mcvean Soans of **D14A** bagged the **first price** in the **flutter track - Google DevFest India 2021**. It was the first-ever **3 days (22nd to 24th October 2021)** virtual Devfest organized by **Google developer groups**. The Event covered a spectrum of skill-building sessions on diverse topics like machine learning, flutter, web development, etc. He scored the highest in the time-bound quiz on flutter which sealed him the first spot among all the enthusiasts participating from all over the country.
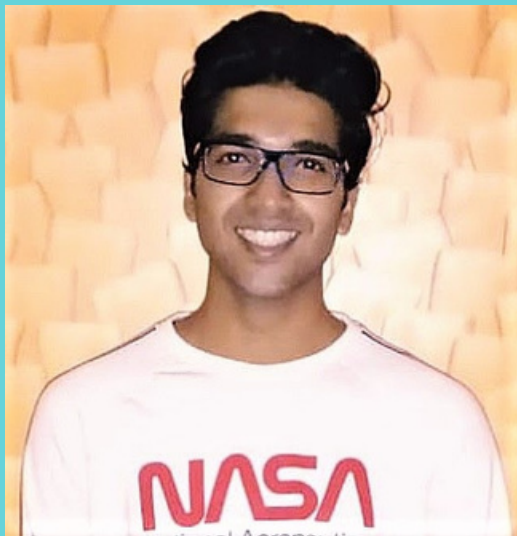
Mcvean Soans
(D14A)

Wielding the Weights

Powerlifting Suburban Mumbai Association along with **Powerlifting India** and **Maharashtra state Powerlifting Association** organized a weightlifting competition on **24th October, 2021**, for the participants to showcase their weight lifting prowess. **Varun Arya** of **D14A** contested in 83 kg category and lifted a mammoth total weight of 405 kgs (Squat - 150 kg, Deadlift - 160 kg, Bench press - 95 kg) and secured **4th spot** among over 200 participants.

Varun Arya
*(D14A)*

Students turn Teachers

Priyanka Moopnar and **Isha Chavan** from **D14A** secured the **1st position** and **Sakshi Gupta** from **D14B** secured the **2nd position** in the third year group of **ISA-VESIT's Elucimate 2.0**. ISA-VESIT conducted its first mega event Elucimate 2.0 from **17th August 2021** to **16th September 2021**. It presented an opportunity to the students to brandish their teaching skills without being limited to just the night before the exams and get the cognizance they deserve. The students were required to submit three topics in the order of their preference. Out of these, one topic was allocated to them. The event had two rounds. The final round was judged on the basis of marks given by the judges and likes on the videos. The efforts and creativity showcased by all the participants was exceptional and created a competitive environment. The winner was awarded a cash prize of ₹ 1500 and the runner up was awarded a cash prize of ₹ 1000.

Priyanka Moopnar
(D14A)

Isha Chavan
(D14A)
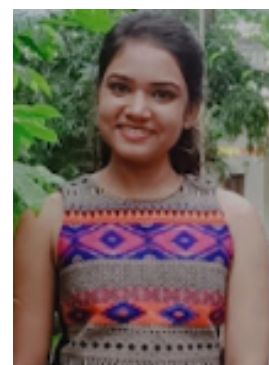
Sakshi Gupta
(D14B)

Star Presenter

Vinaya Nair from **D14B** won the **Star Presenter Award** in **Mono Mousumi's Contest** conducted on **10th February, 2021**. This contest presented a platform for creative thinkers to exhibit their talents via different mediums like video, presentation, essay narration, story telling, poem recitation, debate, interview, tips etc. Vinaya made a 23 minute long comprehensive video on the topic ' **Tenses and it's types**'.

Vinaya Nair
(D14B)

EXTC's Star Reporter

VESLit circle in collaboration with the **Union Bank of India** organized a literary mega fest on the account of **Vigilance awareness week 2021**. **Sumit Jadhav** from **D14A** secured the **2nd position** in **VESLit x UBI's Blow The Whistle**. It was an informal rendition of a newsroom drama event, where participants were asked to depict a typical news reporter at work. The participants had to prepare and present a news segment on the topic of PIDPI (Public Interest Disclosure and Protection of Informers). Sumit Jadhav played an adept reporter who presented his content in an engaging manner which bagged him the runners-up position. The event was held on **5th October 2021**.

Sumit Jadhav
(D14A)

Valorant

Ingenuity'21 was a scintillating eSports virtual event organized by **VESIT's sports council**. Team liquid won the competition by a whopping 38 points. **Valorant** was one of the highly charged games with fierce competition among the rival teams. The Final match was played on **22nd October, 2021**, and was streamed live on VESIT Student council's official Youtube channel. **Hrushikesh Satam** of **D14A** was a part of the winning team and played a consequential role in the game Valorant which helped them seal the game 2-1.

Hrushikesh Satam
(D14A)

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FOURTH YEAR ACHIEVEMENTS

Toycathon 2021

Toycathon 2021, a national competition, is an inter-ministerial initiative organized by the **Ministry of Education's Innovation Cell** with support from **All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting** aiming to promote indianised toys to boom the toy industry of our country by supporting innovative ideas and start-ups. Under the mentorship of EXTC faculty two teams from the department managed to ace it to the finals bringing in some really thoughtful ideas.

Finalist Team : under the mentorship of **Mrs Ashwini Sawant**

Kaustubh Salve (Group Leader) - D19A
Tanvi Soni - D19A
Saheb Wadhwa - D19A
Yusuf Kulkarni - D19A
(Created a hardware project called 'Junior's Farm')

TOP L-R : SAHEB WADHWA (D19A) , YUSUF KULKARNI (D19A)
BOTTOM L-R : TANVI SONI (D19A) , KAUSTUBH SALVE (D19A).

Ingenuity'21

Counter-Strike: Global Offensive (CSGO)

The **VESIT Sports Council** organized a mega eSports event '**Ingenuity**' from **14th October** to **23rd October,2021**. One of the games played was **Counter-Strike: Global Offensive (CSGO)**, which is widely popular among the gaming community. First round was the elimination round in which the 5 teams battled fiercely to grab the top 4 spots. The knockout stage was called the '**Qualifiers**' and the qualifying teams competed with every other team in the second round and played their matches on various maps. The game map was selected by toss and in the last round a random map was selected by the council. Points received after each match were added to decide the final winner. Team **Mercator Mortalis**, with **Avinash Tripathi (D19B)** as the kingpin, secured the **3rd spot**.

Rocket League

Another highlight event of **Ingenuity'21** was the **Rocket League**. Rocket League was one of the trending games during the lockdown phase. The 5 teams tussled among each other in a 3 vs 3 during the league stage. The team with the least points was eliminated and the rest of the four entered the knockout stage (Qualifiers). The finals was a mouth watering clash to witness and Team **Mercator Mortalis**, under the leadership of **Avinash Tripathi (D19B)**, emerged victorious.

Avinash Tripathi
(D19B)

NEWSLETTER TEAM

Dr. Chandansingh Rawat   - **Head of Department**

Dr. (Mrs.) Nandini Ammanagi   - **Staff In-Charge**

Mrs. Anuradha Jadiya   - **Staff In-Charge**

Rahul Kulkarni   - **Senior Editor**

Tanya Dubey   - **Senior Editor**

Yash Bhise   - **Senior Designer**

Pooja Narayanan   - **Junior Editor**

Mansi Pawar   - **Junior Editor**

Avantika Narvekar   - **Junior Designer**