



# DBIT-EXTC-SPECTRUM

DON BOSCO INSTITUTE OF TECHNOLOGY

2021 • VOLUME 11

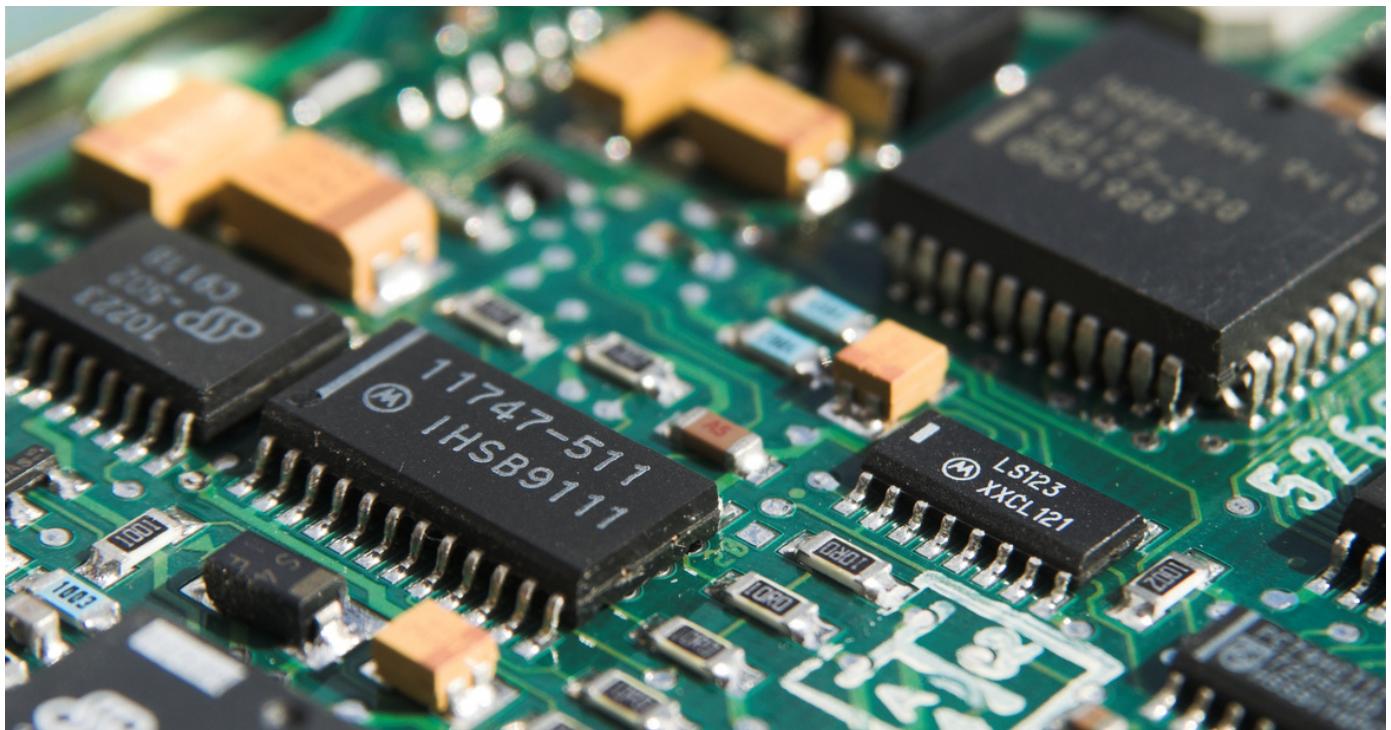


## WHAT'S INSIDE?

Student's Academic  
Achievement's

Faculty Contributions &  
Achievements

Activities Organised by the  
Department



## **DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING**

### **OUR VISION**

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

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### **OUR MISSION**

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

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

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### **PROGRAMME EDUCATIONAL OBJECTIVES**

**PEO1:** To analyze, design and develop systems for applications in Electronics and Telecommunication and allied engineering fields with professional ethics.

**PEO2:** To pursue higher education in recognized national and or international universities and carry out research & development work in the field of Electronics & Telecommunication Engineering.

**PEO3:** To get gainfully employed and/or become entrepreneurs in the field of Electronics & Telecommunication Engineering.

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## FROM THE HOD'S DESK

A warm welcome to yet another issue of "Spectrum", our annual platform to showcase the department's efforts and accomplishments. While we hoped to meet our dear students in classrooms all through the academic year of 2020 - 2021, we recorded 1000 hours of online teaching-learning through lectures, practical sessions and project & personal mentoring.

The online platform offers its own limitations especially when hardware concepts are to be imparted. The faculty adopted several innovative teaching techniques, new simulation softwares and development platforms such as GitHub and cloud computing domains such as Amazon Web Services to ensure better learning. Here, I must appreciate my student friends for bringing some life to the online classes by their active participation.

The ongoing pandemic has deeply affected each one of us. The department is very grateful to its alumnus who sponsored Rs. 3,61,308/- to support seven students facing financial hardships due to COVID-19 pandemic. We respect their noble gesture and their decision to remain anonymous.

While we approached the end of yet another academic year, it was overwhelming to bid goodbye to our final year students via an "online farewell party"!

As we wait in anticipation of a new normal, I wish you all a very happy and healthy life!



**Dr. Ashwini Kotrashetti**

## FROM THE EDITORS DESK

I am happy to present to you yet another edition of our department newsletter DBIT-EXTC-Spectrum. It gives you glimpses of the 'Power of We'. Very often doing the smallest things that go unnoticed creates a big impact for many. This newsletter brings to you all the activities that have helped us in working towards the Vision & Mission of Don Bosco Institute of Technology and creating an impact on the lives of our budding engineers.



**Ms. Pratibha Dumane**

This is the 11th edition of our newsletter and with the start of a new decade we have given it a new look. Each edition of the newsletter has been a milestone and helps us bring forth the kaleidoscope of the activities in the year gone by to all the readers. The newsletter showcases the many achievements, activities of the student chapters and all the activities organized for the students and faculty members – all aimed towards the holistic development of all concerned. As in every year, months of painstaking efforts have gone by in coming up with this year's edition of our department newsletter and I am sure you will appreciate the enthusiasm and the zeal of the students and faculty members in making the year a fulfilling one, inspite of the pandemic.

A special thank you to Grejo Joby and Esther Fernandes, students of Computer Engineering for helping us in coming up with this edition of the newsletter with a new look after a series of 10 earlier editions.

I end with this quote by H. Jackson Brown "Never let the odds keep you from doing what you know in your heart you were meant to do".  
Happy Reading!

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We are honoured to publish this edition of DBIT - EXTC - Spectrum. This newsletter gives an overview of the activities organized in the academic year. We appreciate the Editor - Ms. Pratibha Dumane for her eye for detail and her valuable inputs through every stage of preparing this newsletter. We have tried our best to design the newsletter and we are sure you will like it.

Thank you for taking your time in reading through the newsletter and appreciating the efforts by the team.

**Grejo Joby & Esther Fernandes**  
BE - Computer Department



# STUDENTS' ACADEMIC ACHIEVEMENTS (2019-20)



## FINAL YEAR

DBIT RANK	NAME OF THE STUDENT	GPA
I	SHARMA NILESH RAMDARASH SHASHIKALA	10
II	TANDEL SAYALI HARESHWAR HARSHALA	10
III	VIVEK VISWANATHAN MAHALAKSHMI	10

## THIRD YEAR

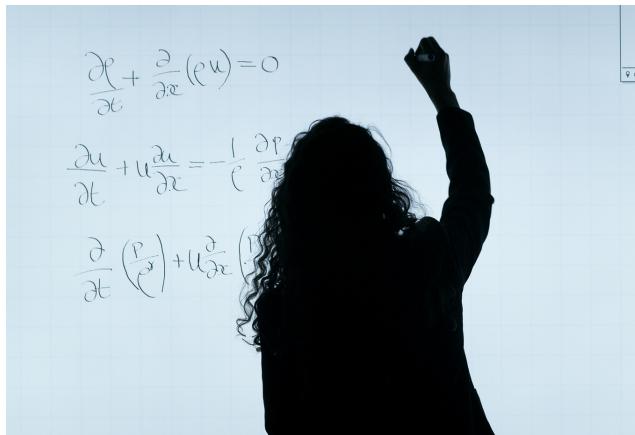
DBIT RANK	NAME OF THE STUDENT	GPA
I	KOLHE BHUSHAN BHAGWAT RAJSHREE	9.05
II	SINGH SRISHI RAJESH SONU	8.41
III	JOSHEE MINITA RAMESH REKHA	8

## SECOND YEAR

DBIT RANK	NAME OF THE STUDENT	GPA
I	DHARAP NILESH HEMANT PRACHI	9.72
II	CALLISTUS PANICEOGRGE SELVI	9.47
III	DEY ARKA PRABHAT LATA	9.29

## JOURNAL PUBLICATIONS BY FACULTY MEMBERS

1. Pratibha Dumane, Bilal Hungund, Satishkumar Chavan, "Dysarthria Detection Using Convolutional Neural Network". In: Pawar P.M., Balasubramaniam R., Ronge B.P., Salunkhe S.B., Vibhute A.S., Melinamath B. (eds) Techno-Societal 2020. Springer, Cham. [https://doi.org/10.1007/978-3-030-69921-5\\_45](https://doi.org/10.1007/978-3-030-69921-5_45)
2. Divyashree Rachakonda, Arnold Sequeira, Vivek Viswanathan, Vedant Vyawahare, Androse Fernandes, Rajesh Maharana, Yogesh Gholap, "Semi-Autonomous Bot with PID Controlled Line Following Algorithm and Omnidirectional Drive with Electro-Pneumatic Mechanical Subsystems", International Research Journal of Engineering and Technology, June 2020.
3. Manisha G, Nilesh S, Rajesh M, Sayli Tandel, Pransu Kushwaha, Yogesh Gholap, "Real- Time Object Tracking, Semi-Autonomous, Catch/Pick and Place Robot with Pneumatic Subsystems" International Journal of Engineering Research & Technology, July 2020.
4. Madhavi S. Pednekar, Santosh Gupta, Aditya Chaudhary, Elton Gras, Sidhharth Dube, "Facile Design and Development of Water Quality Sensors", Advance Science Engineering and Medicine, August 2020.
5. Praful Hambarde, Sanjay Talbar, Abhishek Mahajan, Satishkumar Chavan, Meenakshi Thakur, Nilesh Sable, "Prostate Lesion Segmentation in MR Images using Radiomics based Deeply Supervised U-Net," Biocybernetics and Biomedical Engineering, Elsevier, vol. 40, no. 4, pp. 1421-1435, September 2020. URL: <https://doi.org/10.1016/j.bbe.2020.07.011>.
6. A. Kotrashetti, B. K. Lande, A. Poddar, "FSS-based triplate antenna design concept for wireless devices", International Journal of Microwave and Wireless Technologies, pp. 1-10, April 20-21. doi:10.1017/S1759078721000623
7. Samuel Jacob, Mandar Warde, Pratibha Dumane, "Impact of Augmented Reality as an ICT Tool to Deliver Engineering Education Content", published on IEEE Xplore. URL: <https://ieeexplore.ieee.org/document/9318709>.
8. Rishikesh Tambe, Sanjay Talbar, and Satishkumar Chavan, "Deep multi-feature learning architecture for water body segmentation from satellite images," Journal of Visual Communication and Image Representation, Elsevier, vol. 77, p.1031-1041, May 2021. <https://doi.org/10.1016/j.jvcir.2021.103141>



## CONFERENCE PAPERS

- Mathias Natasha, Shaikh Farheen, Thakur Chirayu, Shetty Sweekriti, Pratibha Dumane, Satishkumar Chavan, Detection of Micro-Cracks in Electroluminescence Images of Photovoltaic Modules (April 8, 2020). Proceedings of the 3rd International Conference on Advances in Science &

Technology (ICAST) 2020, Available at SSRN: <https://ssrn.com/abstract=3563821> or <http://dx.doi.org/10.2139/ssrn.3563821>

- Rhea Kotrashetti, Freda Carvalho, Ashwini Kotrashetti, "The Advent of Women: An Analysis Gender Bias & Inequality in STEAM Literary Narratives", accepted for publication in Proceedings of National Conference on 'Gender Bias in Technology', Auro University, Surat, March 8-9, 2021.
  - Poonam Chakraborty, Namita Agrawal, Madhavi Pednekar presented a paper titled "Breaking the Glass Ceiling - A New Way" accepted for publication in Proceedings of National Conference on 'Gender Bias in Technology', Auro University, Surat, March 8-9, 2021.
  - Aparna Telgote, Dipti Jadhav, Anagha Shastri, Devyani Balsara presented a paper titled "Impact of Technology on Mental Health of Men and Women" accepted for publication in Proceedings of National Conference on 'Gender Bias in Technology', Auro University, Surat, March 8-9, 2021.
  - Shikha Tripathi, Vincent D'souza, Isha Kubal, Christopher Sabu, Poonam Chakraborty, "Underwater Ultrasonic Communication" selected for presentation at IETE Mid Term Symposium in Emerging Trends in ICT & Electronics on April 30, 2021.
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## **FACULTY ACHIEVEMENTS/ RECOGNITION**

- Dr. Satish Chavan continued handling responsibilities as Dean - Academics at Don Bosco Institute of Technology.
  - Dr. Sudhakar Mande continued handling responsibility as IQAC Coordinator at Don Bosco Institute of Technology.
  - Ms. Pratibha Dumane continued handling responsibilities as the Controller of Examinations - DBIT till the end of August 2020 and was instrumental in the smooth conduction of all online examinations conducted till January 2021.
  - Ms. Poonam Chakraborty has been the IETE-DBIT-ISF Coordinator since January 2019.
  - Ms. Gejo George has been the IEEE-DBIT Branch Counsellor since January 2015.
  - Dr. Ashwini Kotrashetti was appointed as a reviewer for the Asia Pacific Microwave Conference, December 8-11, 2020, Hongkong.
  - Dr. Satish Chavan was appointed as Session Chair for the International Conference on Computing in Engineering & Technology, organized by Dr. B.A. Technological University, Lonere, Dist. Raigad held on 30-31 January, 2021
  - Dr. Ashwini Kotrashetti was appointed as Vice-Chair, Inter Society Liaison Committee, IEEE Bombay Section for the year 2020 and as Chair of IEEE MTT-S Chapter of Bombay Section in January 2021.
  - Ms. Pratibha Dumane and Ms. Poonam Chakraborty were appointed as Reviewers for the 4th Biennial International Conference on Nascent Technologies
-

in Engineering organised by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai, in association with IEEE & IAS on January 15-16, 2021.

- Ms. Poonam Chakraborty was selected as the Executive Committee (EC) Member of IETE Mumbai Chapter for two years 2020-2022.
- Ms. Freda Carvalho & Dr. Ashwini Kotrashetti received the first Best Paper Award for their paper titled "The Advent of Women: An Analysis Gender Bias & Inequality in STEAM Literary Narratives" in the Conference organized by Women Development Cell, AURO University, Surat in collaboration with Don Bosco Institute of Technology, Mumbai and Institute of Electrical and Electronics Engineer's Bombay Section Women in Engineering on March 8-9, 2021.
- Ms. Poonam Chakraborty was appointed as a Reviewer for IETE Mid Term Symposium (MTS- 2021) in "Emerging Trends in ICT & Electronics" on April 30, 2021.
- Ms. Poonam Chakraborty participated in the eScripts Review System for IoT Applications for Healthcare Systems, Publication Department - European Alliance for Innovation (EAI).
- Dr. Ashwini Kotrashetti was appointed as a Reviewer for the 2021 Cross Strait Radio Science and Wireless Technology Conference from July 7-9, 2021, Shenzhen.
- Dr. Ashwini Kotrashetti was invited as a panelist for the SIGHT DAY Celebrations by IEEE Bombay Section to share experiences of working on SIGHT projects on April 28, 2021.
- Ms. Madhavi Pednekar, Ms. Aparna Telgote and Ms. Poonam Chakraborty were appointed as session chairs at the 52nd Mid Term Symposium MTS-2021 on Emerging Technologies in ICT and Electronics on April 30, 2021 conducted by IETE in association with IETE Mumbai section.
- Ms. Pratibha Dumane was appointed as a Reviewer for the International Conference on Artificial Intelligence and Energy System (ICAIES 2021), Jaipur.
- Ms. Madhavi S. Pednekar was selected as a member of "First Draught Discussion Forum of MLC" on April 26, 2021 and offered a free annual membership 2021 under Mumbai Linguistic Circle, Department of Linguistics, University of Mumbai.



## FACULTY ENGAGEMENTS WITH UNIVERSITY OF MUMBAI

- Ms. Pratibha Dumane was appointed as a Member of the University of Mumbai Syllabus Drafting Committee for "ECC 404 Signals & Systems" and "ECC 604 Artificial Neural Networks & Fuzzy Logic", R-2019 C - Scheme. She also was an organizing team member for the Online Faculty Orientation Programme organized by Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai on behalf of University of Mumbai on February 16, 2021 for the Signals & Systems Course.



- Dr. Satishkumar Chavan was appointed as a Member of the Syllabus Drafting Committee by the University of Mumbai for "ECC 502 Discrete Time Signal Processing", R-2019 Scheme.
- Ms. Namita Agarwal was appointed as a Member of the Syllabus Drafting Committee for "Principles of Communication Engineering", "ECC 501 Digital Communication Engineering" and "ECC 602 Computer Communication Networks", R-2019 C-Scheme by the University of Mumbai. She also was an organizing team

member for the Online Faculty Orientation Programme organized by MCT's Rajiv Gandhi Institute of Technology, Mumbai, on behalf of University of Mumbai on February 15, 2021 for this course.

- Ms. Madhavi S. Pednekar was appointed as a Member of the Syllabus Drafting Committee for "ECC303 Digital System Design & ECL302 Digital System Design Laboratory" and "ECCDLO 5012 Data Compression and Cryptography", R-2019 Scheme, by the University of Mumbai. She was also an organizing team member for the Online Faculty Orientation Programme, organized by K. C. College of Engineering & Management Studies & Research, Thane (E), on behalf of University of Mumbai on July 06, 2020 for the Digital System Design course.
- Mr. Yogesh G. Gholap was appointed as a Member of the Syllabus Drafting Committee by the University of Mumbai for "ECCDLO 5015 Sensor Technology & ECM 501 Mini Project 2A Embedded Systems Projects" for R-2019 C-scheme.

## CERTIFICATIONS BY FACULTY MEMBERS



- Ms. Namita Agarwal completed four online Certificate Courses on "Introduction to the Internet of Things and Embedded Systems" by University of California, Irvine, "The Bits and Bytes of Computer Networking" by Google, "Effective Problem-Solving and Decision Making" by University of California, Irvine, "AI for everyone" by deeplearning.ai.
- Ms. Gejo George completed two online Certificate Courses "Work Smarter, Not Harder: Time Management for Personal and Professional Productivity" and "Introduction to IoT and Embedded Systems" by Coursera. She also secured 96.25% and successfully completed a Google Data Analytics Professional Certificate course on 'Foundations: Data, Data Everywhere' (5 Weeks) offered by Google on Coursera.
- Ms. Pratibha Dumane completed two online Certificate Courses on "R Programming" and "High Impact Business Writing".
- Ms. Aparna M. Telgote completed an online Certificate Course on "FPGA Computing Systems: Background Knowledge and Introductory Materials" by Coursera.
- Dr. Ashwini Kotrashetti achieved certification for two courses; "Electrodynamics" by Korea Advanced Institute of Science & Technology, "Design Thinking for Innovation" by University of Virginia on Coursera platform.



## INVITED TALKS BY FACULTY MEMBERS



- Dr. Ashwini Kotrashetti delivered a talk on "Empowering Girls in ICT" on the occasion of the 'International Girls in ICT Day' organized by Swedish Consulate in Mumbai on April 23, 2020.
- Dr. Satishkumar Chavan delivered a session on "Latex Report & Thesis Writing" in One Week Workshop on Writing Documents in LaTeX conducted online by Pillai College of Engineering on April 30, 2020.
- Ms. Namita Agarwal delivered a webinar on "Selection of Projects to Fulfil Societal Needs" at Xavier



- Institute of Engineering, Mumbai, on July 18, 2020.
- Dr. Ashwini Kotrashetti delivered a webinar on "Smart Antennas & MIMO Antennas" at SIES Graduate School of Technology, Navi Mumbai on November 27, 2020.
- Ms. Pratibha Dumane delivered a webinar on "Effective Technical Paper Writing" for the students of A.G. Patil Polytechnic Institute, Solapur, Maharashtra on January 23, 2021.

Students were also encouraged to take up MOOC courses during the lockdown of April to July 2020.

## RCSA, E-YANTRA ELSI LAB & IEEE RAS STUDENT CHAPTER

**FIRE BIRD V**  
ATMEGA2560  
ROBOTIC RESEARCH PLATFORM



**SPARK V**  
ATMEGA16  
ROBOTIC RESEARCH PLATFORM



The DBIT "Robotics Club & School of Automation (**RCSA**)" is upgraded and **is now certified eLSI lab by IIT Bombay**. The "e-Yantra eLSI" is an initiative by IIT Bombay to inculcate robotics culture in students in technology fields from all the branches and promotes interdisciplinary collaborations through project-based learning approach. Mr. Yogesh Gholap and Mr. Jithin Isaac along with Prof. B.S. Chavan (Mech Dept.) and Prof. Hemant Hogade (Mech Dept.) were involved in setting up the lab and were a part of the task-based training on Robotics conducted by eYantra. This team successfully completed the training which led to the reception of the coveted "Class-A award" to DBIT eLSI lab amongst many participant colleges all across India.

The eLSI lab was inaugurated in online mode at DBIT on August 8, 2020 and hence began its lifelong association with e-Yantra team, IIT Bombay.

The lab is now equipped with cutting-edge robotic research platforms such as FIRE-Bird-V and SPARK-V robots along with a multitude of technology inclusive of Sensor technology, Automation Drives, Embedded System, IOT etc.

Through eYantra lab the following avenues are open for students to participate.

- e-Yantra Innovation Challenge (eYIC)
- e-Yantra Robotics Competition (eYRC )
- e-Yantra Symposium (eYS)
- e-Yantra Resource Development Center (eYRDC)
- e-Yantra Farm Setup Initiative (eFSI)

Three teams of 4 students each from different departments of DBIT have participated in the international eYRC-2021 robotics competition.

## STUDENT ACHIEVEMENT'S

- Harshal Rathod secured the Second Prize in the Intercollegiate 'Poster Making Competition' organized by IETE-ISF-DBIT in March 2020.
- Harshal Rathod, Atharva Bondre, Bhushan Kolhe and Cromwell Mendes secured 4th position at the National Level Hackathon "MegaHack 2.0", organized by St. John College of Engineering and Management, Palghar on April 09-10, 2021.
- Khan Abdul Rehman and Rameshwar Chavan secured 9th rank in the National Level "Street Play Competition" at Spring Fest Organised by IIT-Kharagpur in January 2020.
- Khan Abdul Rehman and Rameshwar Chavan were selected for the finals of Start-a-Thon, Pan-India Start-Up Competition Organised by Sardar Patel Technology Business Incubator in August 2020.



- Merlin Tomy, Ajitha Rajkumar, Shubhangi Katariyar, Anuranjini Komban were selected for the final evaluation stage in "Competition for Budding Innovators" conducted by IEEE BS SIGHT in collaboration with Bombay Section SAC during November 2020 - February 2021.
- Merlin Tomy successfully completed the 7-Days Bootcamp on "Python and Machine Learning" organized by Charusat University of Science and Technology - AWS Students Club and Shapeai and a certification course on "Fundamentals of Digital Marketing" organized by Google Digital Unlocked on February 14, 2021. She also successfully completed the Certification Course on

"Fundamentals of Digital Marketing" organized by Google Digital Unlocked held on February 14, 2021.

- Ajitha Rajkumar was selected as IEEE Bombay Section 2021 PES Day Ambassador.
- Abdul Rehman Khan has successfully completed Online Certification Courses in "Email Marketing Basics" and "Body-Building Blueprint" conducted by Career Development College London, UK from April 3-17, 2021, a 03-week Certification Course on "Professional Digital Photography" conducted by Lingaya's Lalit Devi Institute Of Management and Science, Mandi, New Delhi from March 20, 2021 - April 10, 2021 and has acquired competency in the One-week Online Course on "Dynamic and Global Aspects of Business Strategy Management", conducted by Global Institute of Business Studies from April 11-18, 2021.



**Magdeline James** from T.E. - EXTC secured Rank 3 in the Technical Paper Presentation organized during **Colosseum – the DBIT Annual Technical Festival**.

## EXTC STUDENTS IN DBIT E-CELL

SR. NO.	DESIGNATION	NAME OF THE STUDENT	CLASS
1	Incubation Head	ATHARVA BONDRE	BE
2	Co-innovation Head	SRUJAN MHASE	TE
3	Event Head	SHUBHANGI KATARIYAR	TE

## GUEST LECTURES



SR. NO.	TOPIC	RESOURCE PERSON	DATE
1	Current Trends & Technologies in Data Analytics	<b>MR. VIPIN NAIR</b> ANALYST, FINANCIAL DECISIONS SUPPORT ANALYTICS, LOWE'S COMPANIES, INC.	SEPT 25, 2020
2	Introduction to Stepper Motors	<b>MR. YOGESH GHOLAP</b> DON BOSCO INSTITUTE OF TECHNOLOGY	MAR 30, 2021
3	RFIC Cascode Topology Low Noise Amplifier Design	<b>MS. MANASI BANDEKAR</b> RFIC DESIGN ENGINEER, QORVO, NORTH CAROLINA, USA AND DBIT - ALUMNUS (2017 BATCH)	MAY 3, 2021
4	Applications For Metasurfaces In High Frequency Regime	<b>DR. SOMAK BHATTACHARYYA</b> IIT (BHU) VARANASI, INDIA.	MAR 30, 2021
5	Financial Planning - Importance of Saving and Investing Early	<b>MR. PRASHANT SHAH,</b> <b>MR. RAHIL SAYTA</b> DIRECTOR - K2P INTEGRATED SERVICES LTD., AND HAPPINESS FACTORY	MAY 3, 2021
6	Practical Aspects of Computer Networks	<b>MR. NILESH GHAVATE</b> DON BOSCO INSTITUTE OF TECHNOLOGY	MAY 7, 2021
7	Guidance on Placement in Core Companies	<b>MR. AKHIL PATHAK</b> APTIV COMPONENTS TCI PVT. LTD, BANGALORE	MAY 8, 2021
8	Career/ Growth Opportunity with Jobs in Core Companies/ Start-ups	<b>MR. ABHAY PHANSIKAR</b> CORPORATE STRATEGY & TECHNOLOGY CONSULTANT	MAY 18, 2021

## NEW INITIATIVES

### SOLAR LAB SETUP



- Ongoing Setup for learning Off Grid PV installation
- Currently 100W system, can be scaled to 1kW
- Outcome of IEEE SIGHT MTS-S Funded Project



**OpenProject**  
Web-Cloud based Project Management Software for B.E. EXTC  
Project students  
*First of its kind implementation in DBIT*

#### Features:

1. Work Breakdown Structure
2. Gantt Charts
3. Budgeting
4. Reporting

[www.dbitextcproject.live](http://www.dbitextcproject.live)



AWS Cloud accounts for all faculty & students of DBIT

\$100 credit for students per year  
\$200 credit for faculty per year



- Git & GitHub Session for B.E EXTC students
- Project students using it for project version control
- Students well versed with Git commands, prerequisite for industries involved with coding



## ACTIVITIES OF THE COUNSELING DEPARTMENT

Online Counseling sessions were conducted for the S.E., T.E. and B.E. EXTC students on November 2-3, 2020 by the inhouse counselors Ms. Amrita Achrekar and Ms. Kuntal Teli. The counselors also provide personal counseling to the students.



## WOMEN DEVELOPMENT CELL



- Webinar On “Professional & Personal Life Balance During Lockdown” by Ms. Linda Dhakul, Assistant Professor, St. Xavier's College, Mumbai on 12 September 2020.
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## TRAINING & PLACEMENT RELATED ACTIVITIES



QUANTITATIVE  
APTITUDE



REASONING



RESUME  
BUILDING



VERBAL  
ABILITY



ONLINE TEST  
SERIES



GROUP  
DISCUSSION

Sessions on Effective Thinking and Soft Skills viz. Public Speaking, Presentation Skills, Analytical and Creative Thinking Skills were organized in a series of events that included discussions, case studies and activities under the GTT-Barclays Life Skills Program.



## VALUE ADDED COURSE



- A course on "Research and Review" for students of T.E. EXTC was conducted between March - June 2021. The instructors of this course were Dr. Ashwini Kotrashetti, Dr. Sudhakar Mande, Ms. Madhavi Pednekar, Ms. Pratibha Dumane and Dr. S.V. Kulkarni, IITB as the guest speaker. It was attended by 70 students and faculty of Dept. of EXTC. The links of the recorded lectures were made available to students on MOODLE.
- Dr. Sudhakar Mande conducted a session on "In Search of Research" as a part of Online Moodle Course on "Research and Review - Entering Research" for the third year students and faculty members of EXTC department at Don Bosco Institute of Technology, Mumbai on April 03, 2021.

- Ms. Madhavi S. Pednekar conducted series of lectures titled "Searching and Reading the Literature for Scientific Articles, Literature Review Summary: How to use Self-Assessment Tools and Electronic Search: Open Access Scientific Articles with Online Demonstrations" as a part of Online Moodle Course on "Research and Review- Entering Research" for the third year students and faculty members of EXTC department at Don Bosco Institute of Technology, Mumbai on April 27-29, 2021 and May 03, 2019.
  - Ms. Pratibha Dumane conducted a session on "Systematic Literature Review" as a part of Online Moodle Course on "Research and Review - Entering Research" for the third year students and faculty members of EXTC department at Don Bosco Institute of Technology, Mumbai on May 5, 2021. URL: <https://www.youtube.com/watch?v=d7FIRMbx-yY>
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## OUTREACH ACTIVITY



Ms. Poonam Chakraborty spoke on "How to Re-Create the Environment" as the Guest of Honour at an event on the World Environment Day celebration organized by The Spring Foundation on June 05, 2021.

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## STUDENTS PLACED LIST

SR. NO.	NAME OF THE STUDENT	ORGANIZATION/COMPANY
1	ANNE PINTO	CAPGEMINI
2	AMAAN NIZAM	CAPGEMINI
3	ASHITA SERRAO	CAPGEMINI
4	ASHLEY VARGHESE	CAPGEMINI
5	KEITH BARNES	CAPGEMINI
6	AMANDA JOSEPH	DURE TECHNOLOGIES
7	RONI THOMAS	DURE TECHNOLOGIES
8	HRISHIKESH BORKAR	HANSA C EQUITY
9	CROMWELL MENDES	HANSA C EQUITY
10	MINITA JOSHEE	LTI L1, TCS
11	MANGESHI PATIL	LTI L1
12	SRISEHTI SINGH	LTI L1
13	SHRUTI KORADE	QSPIDER
14	SAURABH CHAUBEY	TCS
15	BHUSHAN KOLHE	TCS
16	SHREYAS KULKARNI	TCS NINJA
17	SHRIKANT GUNJAL	TCS NINJA
18	NIKHILESH CHAKRAVARTY	ZEUS
19	REDALIA D'SOUZA	BRIGHT CHAMPS
20	SIDDHI WARANG	CHEGG
21	ELTON NORONHA	CHEGG

SR. NO.	NAME OF THE STUDENT	ORGANIZATION/COMPANY
22	VINCENT D'SOUZA	SQUARE YARDS
23	SHIKHA TRIPATHI	SQUARE YARDS
24	JASHN KOTWAL	SQUARE YARDS
25	SUMIT TRIPATHI	SQUARE YARDS

## PLACEMENT STATISTICS



## INTERNSHIPS IN INDUSTRY

SR. NO.	NAME OF THE STUDENT	ORGANIZATION/COMPANY
1	ASHITA SERRAO	STUDENT ALLIANCE LLP
2	REDALIA DSOUZA	STUDENT ALLIANCE LLP
3	ISHA KUBAL	STUDENT ALLIANCE LLP
4	CHRISTOPHER LOBO	STUDENT ALLIANCE LLP
5	BHUSHAN KOLHE	AUTODICE
6	ABHIRAM PILLAI	E&ICT ACADEMY, IIT GUWAHATI - VLSI SYSTEM DESIGN CORP. PVT. LTD.
7	SAURABH CHAUBEY	E&ICT ACADEMY, IIT GUWAHATI - VLSI SYSTEM DESIGN CORP. PVT. LTD.
8	BHUSHAN KOLHE	E&ICT ACADEMY, IIT GUWAHATI - VLSI SYSTEM DESIGN CORP. PVT. LTD.
9	ELTON NORONHA	DELOITTE - TECHNOLOGY CONSULTING VIRTUAL INTERNSHIP
10	SHREYAS KULKARNI	DBIT (EXTC DEPT.) - SENSOR LAB DEVELOPMENT
11	APARNA KULKARNI	DBIT (EXTC DEPT.) - SENSOR LAB DEVELOPMENT
12	UTKARSH LIKHAR	DBIT (EXTC DEPT.) - SENSOR LAB DEVELOPMENT
13	SUMITRA NAIDU	DBIT (EXTC DEPT.) - SENSOR LAB DEVELOPMENT
14	SHREYAS KULKARNI	VENTUGROW CONSULTANTS PVT. LTD.

## INTERNSHIP STATISTICS



## IEEE CORE TEAM 2021



## CONGRATULATIONS!

IEEE-DBIT Student Branch led by Ms. Gejo George (Branch Counsellor) was recognized and awarded for its contribution towards the Student Branch Partnership Programme of the IEEE Region 10 Students Young Professionals Women in Engineering Life Members (SYWL) Virtual Congress 2020 held between September 19, 2020 - October 4, 2020.



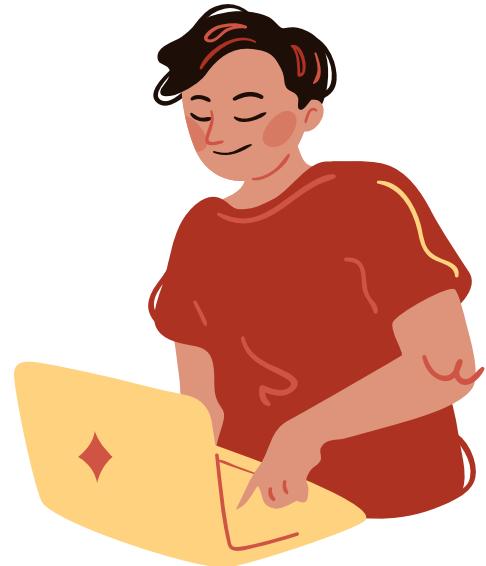
## IEEE STUDENT BRANCH ACTIVITIES

### Industrial Visits

- BSNL Earth Station on February 5, 2020
- SAMEER, Mumbai Campus on February 28, 2020

### Competitions

- Technical Quiz on February 1, 2020
- Video Making Competition July 16, 2020
- Technical Poster Presentation Competition July 18, 2020
- IEEE PES Day - Competition on Mystery Word Puzzle and Content Writing Competition April 8, 2021



**Ms. Ajitha Rajkumar** has been chosen as the recipient of the Best IEEE PES DAY Student Branch Category Ambassador 2021 awarded by IEEE PES Bombay Section Chapter during the IEEE PES DAY AWARDS 2021 ceremony held on 13th June 2021 in recognition of her performance, dedication, and pioneering in spreading the goals and vision of IEEE PES DAY 2021.

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## WORKSHOP ON LaTeX CONDUCTED FOR STUDENTS

A Workshop on LaTeX was conducted by Ms. Freda Carvalho for students in two phases on February 20, 2021 and 8th April 08, 2021. 40 students from the Final Year attended the workshop. The students found the workshop very useful as it will help them prepare their technical papers and the dissertation using LaTeX.

## IEEE WORKSHOPS

SR. NO.	TITLE OF THE EVENT	SPEAKER	DATE
1	Home Automation using ESP8266	<b>Mr. Abhiram Pillai,</b> TECH. SECRETARY, IEEE -DBIT	15 FEB, 2020
2	Hands-on Workshop on Wireless System Design	Dr. Ashwini Kotrashetti, Ms. Freda Carvalho, Mr. Jithin Isaac	7,8,14,15 MAR, 2020
3	Hands-on Workshop on '2D Animation using PIVOT'	<b>Mr. James Robin</b> Reporting Head, IEEE -DBIT	6-8 JULY, 2020
4	Hands-on Workshop on 'Technical Poster Designing using Canva'	<b>Mr. Vudit Prabhu</b> Web and Graphics Head, IEEE -DBIT	13-15 JULY, 2020
5	Hands-on Workshop on "Image Processing and Machine Learning Using Python"	<b>Mr. Abhiram Pillai,</b> TECH. SECRETARY, IEEE -DBIT	21-23 JULY, 2020

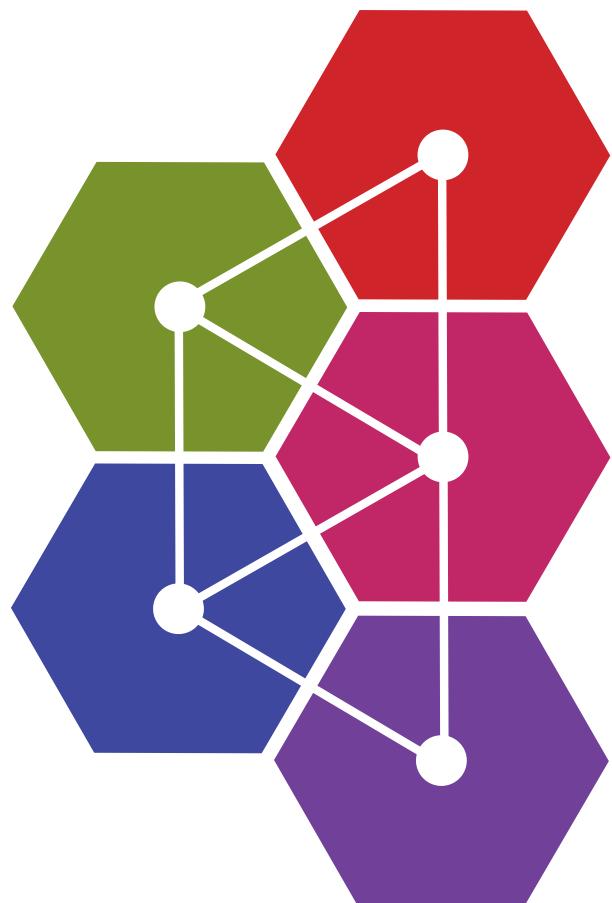
## IEEE WEBINARS

1	Webinar on Emerging Trends Post COVID-19	<b>Mr. Ganapathy Venkatachalam</b> Technical Advisor – ETA Group of Companies	16 MAY, 2020
2	Webinar on Critical Media Literacy	<b>Mr. Sagar Gangurde</b> Director Indian Programs, Seeds of Peace	27 MAY, 2020
3	Webinar on 'Road Map for Beginners in the Corporate World'	<b>Mr. Shirish Dharmadhikari</b> Senior Program Manager, EdgeVerve Systems Ltd.	5 AUG, 2020
4	Webinar on Skills for an Antenna and Microwave Design Engineer	<b>Dr. Tom Sebastian ( Batch 2006 )</b> System Antenna Engineer and Team Lead, JEM Engineering, USA	6 AUG, 2020
5	Webinar on Modern Trends in RF/Microwave	<b>Mr. Alan Pereira ( Batch 2008 )</b> Technical Leader, RF Design, Nokia, Dallas, Texas, USA	26 AUG, 2020
6	Webinar on "Insights into Life @DBIT	<b>Ms. Minita Joshee</b> DBIT Alumni	5 JUN, 2021

## IETE-DBIT ISF ACTIVITIES

### Webinars

- "Emerging Trends Post COVID-19" by Mr. Ganapathy Venkatachalam on May 16, 2020
- "Physics & Engineering" by Dr. Satyanarayana Bheesette on May 21, 2020
- "Critical Media Literacy" by Mr. Sagar Gangurde on May 27, 2020
- "Career Options and Opportunities for B.E. graduates" by Mr. Renjith C.V. on August 11, 2020
- "Consulting Career Path with an Engineering Background" by Dr. Tejas Pawar on August 25, 2020
- "Women in Engineering" in collaboration with IETE Mumbai Centre by Ms. Anupama Kulkarni on September 5, 2020



### Competitions

- Technical Quiz on "IoT and AI" on December 8, 2020
- Technical Quiz on "Proteus and Arduino" on May 8, 2020
- Poster Making Competition under Oscillations-2021 on February 27, 2021

## IEEE-DBIT & IETE-DBIT-ISF ACTIVITIES

- Robo-Soccer during Colosseum – the annual technical festival at DBIT on March 4-5, 2020.
- Open-Source Technology: A Step Towards Collaborative Learning by Mr. Tayyab Ali Sayyad, Mr. Nilesh Ghavate, Mr. Prasad Padalkar on June 5, 2020
- Workshop on Introduction to Micro Bit using Tinkercad on March 24-25, 2021
- Competition – Bug Busters on April 1, 2021



**Bug Busters Winners**

## IETE-DBIT-ISF CORE TEAM 2021

### IETE-DBIT-ISF CORE COMMITTEE 2021

#### Chairperson



Shubhangi Katariyar  
EXTC

#### Vice Chairperson



Dhanashree Chilap  
EXTC

#### Event Manager



Pramod Mohanty  
EXTC

#### Finance Head



Anuja Vaidya  
COMPS

#### Technical Head



Sadanand Chauhan  
EXTC

#### Technical Head



Purva Dharmadhikari  
IT

#### Publicity Head



Glen Fernandes  
EXTC

#### Logistics Head



Aparna Sarawdekar  
IT

## POSTER MAKING COMPETITION

**1**

A PSEUDO-RANDOM BINARY SEQUENCE GENERATOR BASED ON CHAOTIC LOGISTIC MAP  
Jitendra Patel, Amar Pal, Chaitanya Kumar, Sharad Kumar, Naveen Kulkarni  
Department of Electronics and Telecommunications - VESIT, Mehta University

**2**

Viteren  
DRONE

**3**

**Newton's Laws of Motion**

When matter and force meet  
All matter either remains at rest or moves in a straight line unless acted upon by an outside force.

**First Law**  
All matter either remains at rest or moves in a straight line unless acted upon by an outside force.

**Second Law**  
The acceleration of matter depends upon two variables: the force acting upon the matter and the mass of the matter.

**Third Law**  
For every action, there is an equal and opposite reaction.

**Amar Pal**  
VESIT

**Harshal Rajesh Rathod**  
DBIT

**Ankit K Shrivastava**  
TMV

## SYNCHRONY 2020 - ALUMNI MEET



The DBIT Alumni Association conducted an online Annual Alumni Meet- Synchrony 2020 with the theme "Entrepreneurship" on June 6, 2020.

This meet was held with the objective of bringing together alumni to share their experiences and provide guidance to the budding engineers to explore the entrepreneurial path. The following DBIT alumni who have chosen Entrepreneurship as their career path were invited as the speakers:

- Ms. Rujuta Pawar (Alumnus, 2010 Batch), Founder at Sketo Infotech and CoFounder at Bequest Designs, Independent Consultant at Tradepath Capital LLC.
- Mr. Goradia Vaibhav Rajesh (Alumnus, 2016 - Batch), Co-Founder & CEO of Viser8.
- Mr. Akshay Kumar (Alumnus – 2014 Batch), CEO and Director, Vishva Vedanta School since 2014 and Consultant for Vibgyor Group since 2016.

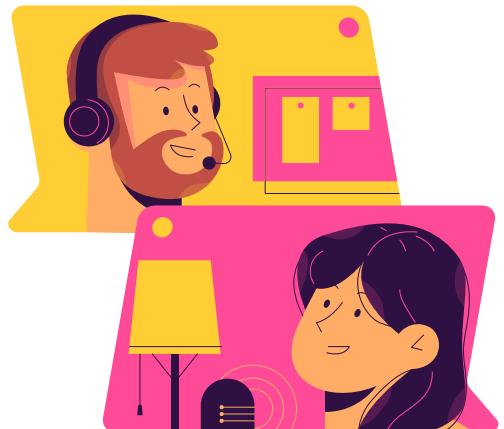
## ALUMNI INTERACTIONS



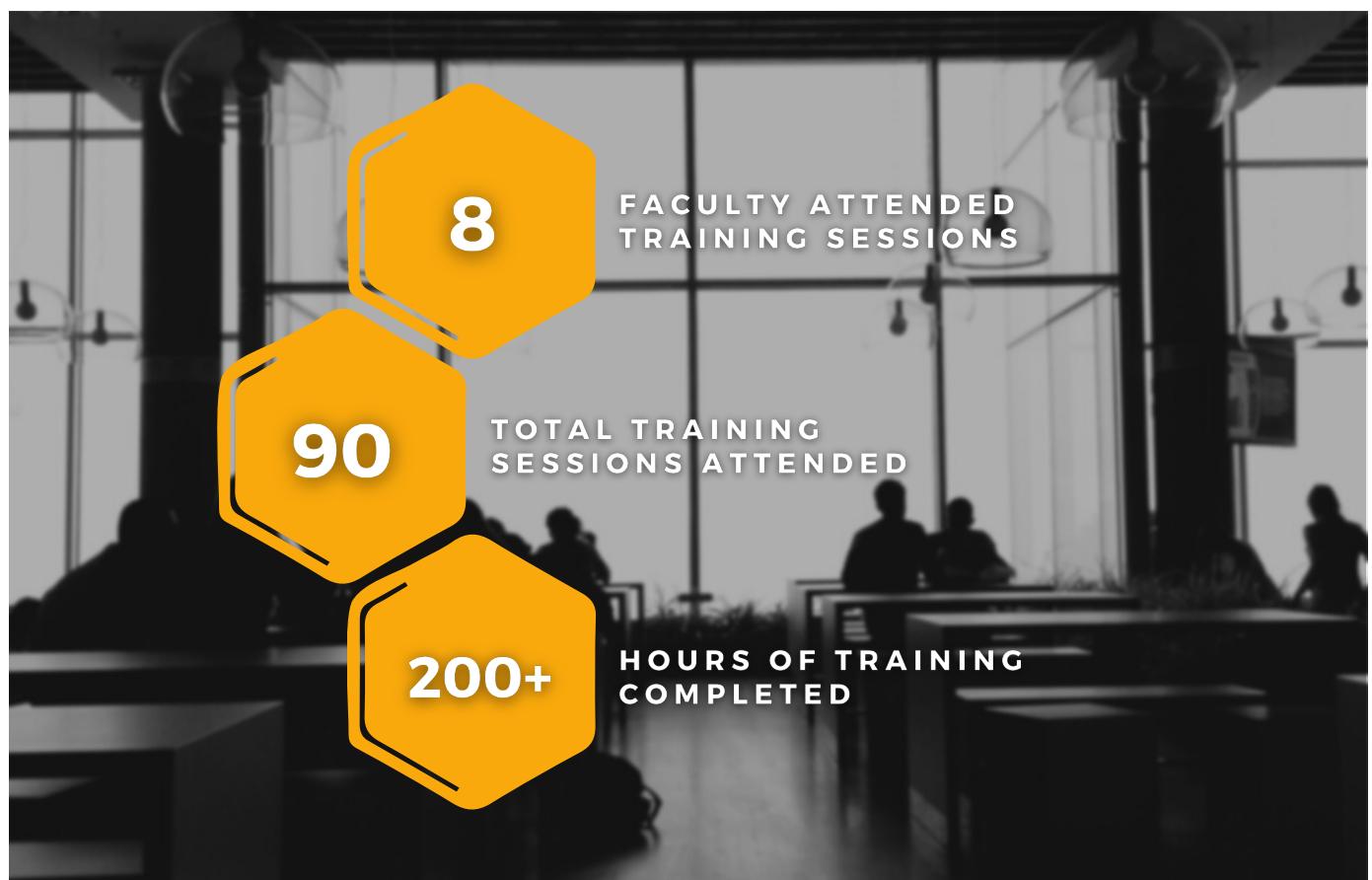
SR. NO.	TITLE OF THE EVENT	SPEAKER	DATE
1	Webinar on Skills for an Antenna and Microwave Design Engineer (IEEE-MTTS)	<b>Dr. Tom Sebastian</b> System Antenna Engineer and Team Lead, JEM Engineering, USA	6 AUG, 2020
2	How a Chip is Made: Conceptualization to Production	<b>Mr. Hussain Neralwala</b> Logic Design Head, GTCHE, Intel Bangalore	7 AUG, 2020
3	Consulting Career path with an Engineering Background	<b>Dr. Tejas Pawar</b> Senior Consultant at Highmark Health, Pittsburgh, Pennsylvania, United States	25 AUG, 2020
4	Financial Independence through Financial Planning for Youngsters	<b>Mr. Abhinandan Honale</b> (F.R.M, Head - Wealth Management at Samarth Edufin Services Private Limited)	28 AUG, 2020
5	Product Development and Engineering Design as a Career (IEEE)	<b>Mr. Gaurav Pednekar</b> Design Engineer Consultant (B2), Capgemini India Technology Services	12 APR, 2021
6	An Insight into Life After DBIT (IEEE-WIE)	<b>Ms. Lakshmi Prasad</b> Scientist, Liquid Propulsion Systems Centre (ISRO)	13 APR, 2021

## CONFERENCES ATTENDED BY FACULTY MEMBERS

- Dr. Ashwini Kotrashetti attended the International Microwave Symposium (IMS2020) and Microwave Week Virtual Event held from August 4-6, 2020, "Confluence 2020" a Virtual Conference of all IEEE Bombay Section Societies/ Chapters on October 24, 2020 and the Virtual 2020 Asia-Pacific Microwave Conference from December 8-11, 2020.
- Ms. Gejo George attended the 'Students Humanitarian Technology Conference' (SHTC 2021) organized by IEEE Kerala Section SIGHT in collaboration with IEEE LINK and IEEE Kerala Young Professionals held on May 1-2, 2021.



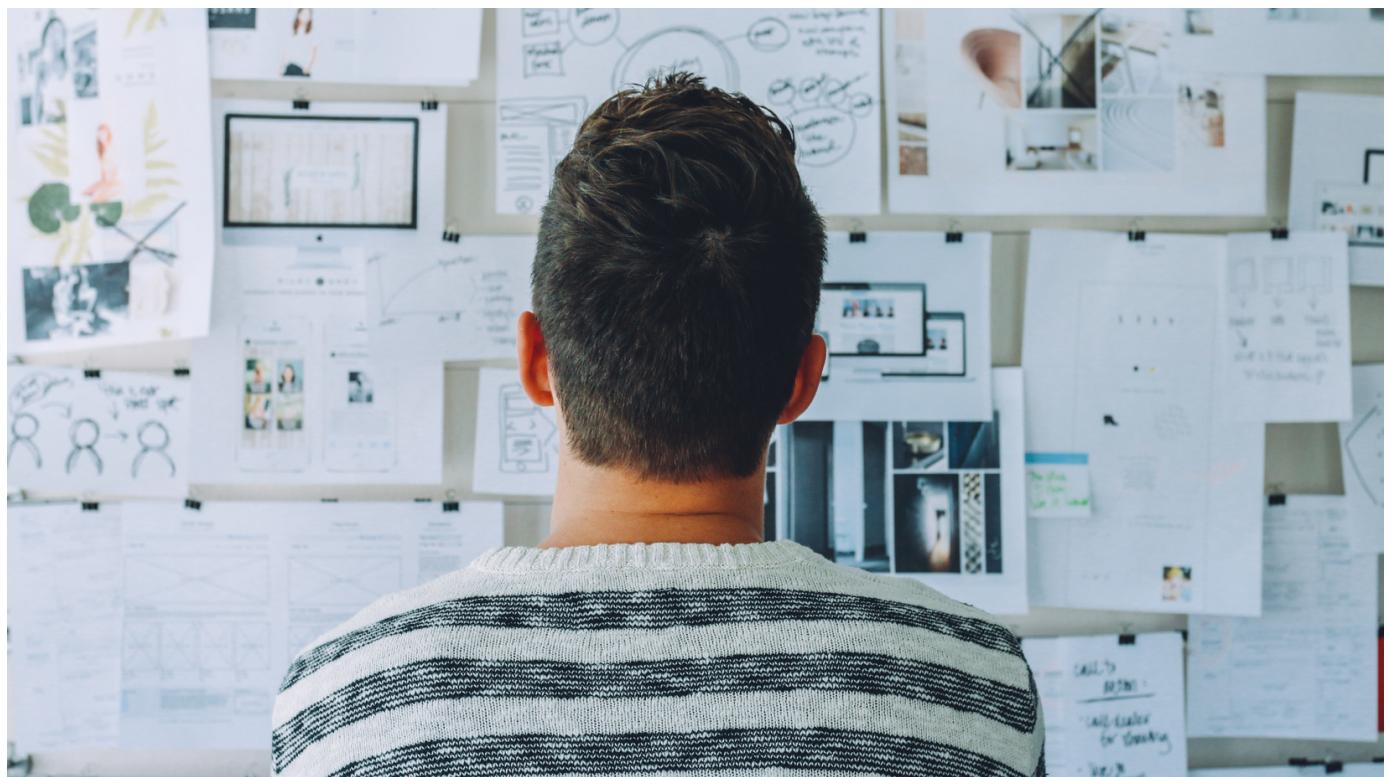
## TRAINING PROGRAMMES ATTENDED BY FACULTY MEMBERS



# INNOVEX 2021



The fifth edition of Innovex was organized on April 30, 2021 and May 1, 2021. In all 22 projects were showcased by the EXTC department for all the viewers on the Innovex website. All the final year project demonstration videos along with the project posters were exhibited. The judges for the competition were Mr. Hussain Neralwala - Logic Design LEad, Graphics & Throughput Computing, Intel, Mr. Jitendra Chaurasiya - Hardware Executive Design Engineer, TATA Advanced Systems Lts., Mr. Vikram Grewal - Manager, Larsen & Toubro Ltd., Mr. Niraj Kini - PhD. Scholar, National Yang Ming Chiao Tung University, Taiwan, Mr. Gautam Rao - Lead for Digital Transformation & Robotics, Konica Minolta Business, Middle East. The closing ceremony of e-INNOVEX was streamed live on Saturday 8th May, 2021.



## INNOVEX 2021 WINNERS



RANK	PROJECT NAME	STUDENTS' NAMES	PROJECT GUIDE
I	LoRaWAN Enabled Remote Solar Photo-Voltaic Energy Monitoring System	Keith Barnes Aparna Kulkarni Shreyas Kulkarni Adish Sthalekar	Mr. Jithin Isaac
II	Vitaran Drone	Atharva Bondre Bhushan Kolhe Cromwell Mendes Harshal Rathod	Mr. Yogesh Gholap
III	Wireless Charger for Electric Vehicles	Royston Carvalho Ethan Gomes Larry Pereira Prathik Rao	Dr. Ashwini Kotrashetti
Viewer's Choice Award	Breast Cancer Detection and Segmentation using Deep Learning	Minita Joshee Amaan Nizam Abhiram Pillai Anne Pinto	Dr. Satishkumar Chavan
Prof. D. Sundararajan Award	Design & Development of Mobile handset antenna for optimum SAR for Mobile Communication System	Sebastian Josi Ashita Serrao Srishti Singh	Ms. Freda Carvalho

## BATCH OF 2020-2021

