Volume 12
2022

DBIT - EXTC
SPECTRUM

DON BOSCO INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

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

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

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

PROGRAMME EDUCATIONAL OBJECTIVES

PE01: To analyze, design and develop systems for applications in Electronics and Telecommunication and allied engineering fields with professional ethics.

PE02: To pursue higher education in recognized national and/or international universities and carry out research and development work in the field of Electronics and Telecommunication Engineering.

PE03: To get gainfully employed and/or become entrepreneurs in the field of Electronics and Telecommunication Engineering.

FROM THE HOD'S DESK

Warm greetings to yet another edition of "Spectrum", an Annual Newsletter of Department of Electronics & Telecommunication Engineering.
Academic year 2021 - 2022 was the year of hope and positivity. While we hoped for normalcy and longed to be back to college in 2021, year 2022 brought sunshine and put an end to the boredom of online classes. On St. Valentine's Day, we welcomed our dear students in to the campus with decorations and sweets. Our students brought life back in to the department. Ever since, it was an action packed semester with major events such as, Colosseum: Annual Intercollegiate Technical Festival, Hysteria: Annual Sports & Cultural Festival, Convocation Ceremonies for two of the recent past batches, Fresher's Party, Innovex: Annual Final Year Project Exhibition, Department Day and finally the Farewell Party along with academics, examinations and how can I forget the professional body activities & several others which are essential components of the department.

Despite all odds, the final year students exhibited their project prototypes at Innovex 2022 which were very well appreciated by the invitees from industry & academic fronts. I take this opportunity to thank our alumni and industry personnel, for their inputs & suggestions which have helped us raise the bar. Your efforts are deeply appreciated.

This year also marked 100 % placement of students who applied for campus recruitment. We are thankful to our industry associations who have given wonderful opportunities to our students. We are confident that our students will prove to be an asset to your organization.

On behalf of the department, I wish to sincerely thank our alumnus who sponsored Rs. 2,03,000/- to financially support four students. We respect their decision to remain to remain anonymous.

While we celebrated the post pandemic normalcy, we also mourned the loss of several of our dear and near ones during the pandemic months. Our prayers to the departed souls.

To summarize, the offline mode saw the students and teachers come together in resonance and the vibrancy in the department which was worth a watch.

Wish you a Healthy and Happy Life!!

-Dr. Ashwini Kotrashetti

FROM THE EDITOR'S DESK

I am once again very happy to present to you the 12th edition of our department newsletter DBIT-EXTC-Spectrum. As educators, our aim is to incorporate activities that help towards a holistic development of our students and ensuring that we put in our synergetic efforts towards the Vision and Mission of Don Bosco Institute of Technology so that our graduates are not only good engineers but also good human beings.

As you go through the pages, you will realize the enthusiasm & the spirit of the students and teachers, the laughter and the smiles, all leading to experiential learning while also cherishing the lovely moments - the spectrum - of yet another splendid year gone by. All thanks and credits go to the dedicated faculty members, staff, students and their team work.

Months of painstaking efforts have gone by in compiling this edition of our department newsletter and ensuring that it realistically presents the mosaic of all the activities, creative talent of our students and the teachers, and sharing the success and achievements with the readers. This newsletter is a medium for providing due acknowledgement and respect for everyone's efforts and their outcomes.

Special thanks to Mr. Immanuel Machado for help with this edition of the newsletter.

Enjoy Reading!

- Ms. Pratibha Dumane

STUDENTS' ACADEMIC ACHIEVEMENTS 2020 - 2021

FINAL YEAR

STUDENT NAME	GPA
MENDES CROMWELL FRANCISCO SOCORRINHA	10
KULKARNI SHREYAS DEEPAK DEEPALI	10
CHAUBEY SAURABH DINESH SANTOSH	9.9

THIRD YEAR

STUDENT NAME	GPA
KATARIYAR SHUBHANGI ANUP KUMAR MANISHA	9.83
PRABHU VIDIT RAJESH SHEETAL	9.64
AJITHA RAJKUMAR SASIKALA	9.63

JOURNAL PUBLICATIONS

1. Roni Thomas, Amanda Joseph, Redalia D'Souza, Aishwarya Kadam, Namita Agarwal published a paper titled "Geo Mapping and Analysis of Alumni Data (with Full Stack Web Development)" in International Journal of Emerging Technologies and Innovative Research,Volume 8, Issue 6, 2021.
2. Brayan Dialle, Kevin D'souza, Ryan Fernandes, Aparna Telgote published a paper titled "Televoting System for Rural Development using VSAT" in the International Journal of Emerging Technologies and Innovative Research, Volume 8, Issue 5, 2021-05-14.
3. Vanitha Soman, Sudhakar S. Mande, K Vijayakumar, "A 4-Bit 4GS/s Differential Current Steering DAC for 16-bit PAM Transmitter in 45-nm CMOS Technology," International Journal of Applied Nanoscience https://link.springer.com/article/10.1007/s13204-021-02101-1.

CONFERENCE PAPERS

1. Abhishek Tripathi, Shafaque Shaikh, Elton Noronha, Sagar Kote, Pratibha Dumane, Satishkumar Chavan presented a paper titled "Fuzzy Based Sustainable Development Assessment for South Asian Countries" in the Conference on Technologies for Future Cities (CTFC 2021) organised by Pillai College of Engineering, New Panvel, on 8-9 October 2021.
2. R. Carvalho, E. Gomes, P. Rao, L. Pereira, A. Kotrashetti and S. Gupte, "A Comparison of Compensation Networks for Wireless Charger for Electric Vehicles," 2021 IEEE Bombay Section Signature Conference (IBSSC), 2021, pp. 1-6, doi: 10.1109/IBSSC53889.2021.9673330.

3. K. Barnes, S. Kulkarni, A. Sthalekar, J. S. Isaac and A. Kotrashetti, "LoraWAN Enabled Solar Photovoltaic Energy Monitoring System," 2021 IEEE Bombay Section Signature Conference (IBSSC), 2021, pp. 1-6, doi: 10.1109/IBSSC53889.2021.9673295.
4. S. Mannaruparampil, A. Serrao, S. Singh, F. Carvalho and A. Kotrashetti, “Design and Development of Mobile Handset Antenna for Optimum SAR for Mobile Communication System,” 2021 IEEE Pune Section International Conference (PuneCon), 2021, pp.1-6, doi:10.1109/PuneCon52575.2021.9686538.
5. Ahmed Ansari, Khan Rizwan, Mohammed Fawzaan Roghay, Shaikh Faisal, Sudhakar Mande, “A Novel Encoder Architecture for 8-bit Flash ADC”, 2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), DOI:10.1109/SMARTGENCON51891.2021.9645882
6. Siddhi Warang, Mark Gracious, Siddhi More, Mangeshi Patil, Sudhakar S. Mande, “Design of Ultra Low Noise High Precision Bandgap Voltage Reference”, 2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), DOI: 10.1109/SMARTGENCON51891.2021.9645889

FACULTY RECOGNITION

1. Dr. Ashwini Kotrashetti continued to be a reviewer for IETE Journal of Research.
2. Ms. Gejo George was appointed as a Reviewer for the 3rd IEEE Bombay Section Signature Conference (IBSSC-2021), an international conference organized by IEEE Bombay Section and ABV-IIITM Gwalior, India, November 18-20, 2021.
3. Mrs. Pratibha Dumane was appointed as the Primary Evaluator for TOYCATHON-2021, a Hackathon to crowdsource innovative ideas for Toys and Games based on Bharatiya history, civilization, ethos and culture organized by the Innovation Cell, Ministry of Education with support of AICTE, Ministry of Women and Child Development, Ministry of Textiles, Ministry of MSME, Ministry of Commerce and Industry, Ministry of Information and Broadcasting.

Toycathon 2021

MTT-S®
IEEE MICROWAVE THEORY & TECHNIQUES SOCIETY

4. Mrs. Pratibha Dumane was appointed as a Reviewer for the 3rd International Conference on Information Management & Machine Intelligence (ICIMMI 2021) organized by Poornima Institute of Engineering & Technology, Jaipur, Rajasthan, India on December 23-24, 2021, with publication partner Springer Nature.

5. Mrs. Pratibha Dumane was appointed as a Judge for the Technical Writing Competition by the IETE Mumbai Centre as a part of the IETE Student's Day Celebrations during Oscillations 2K22.
6. Dr. Ashwini Kotrashetti served as Organizing Committee Member & Track Chair for the "Humanitarian and Social Impacts of Technologies" track for TENSYMP 2022, IEEE Region 10 Symposium organized from 01- 03 July 2022 at IIT Bombay.
7. Dr. Ashwini Kotrashetti was invited as External Expert to interview candidates for the post of Research Scientist (Electronics & RF Engineering) on 19-20 April 2022 at SAMEER, Mumbai.

FACULTY ENGAGEMENTS WITH UNIVERSITY OF MUMBAI

1. Dr. Sudhakar Mande worked as Chairman of Syllabus Drafting Committee of the course "ECCDLO7011 Efficient Architectures for DSP Algorithms" of University of Mumbai R-2019 C -Scheme.
2. Dr. Sudhakar Mande worked as Chairman of Syllabus Drafting committee of the course "ECCDLO8011 System of Chip Design" of University of Mumbai R-2019 C -Scheme.
3. Ms. Pratibha Dumane was appointed as a Member of the University of Mumbai Syllabus Drafting Committee "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 Vivekanand Education Society's Institute of Technology, Mumbai on behalf of University of Mumbai on 15 January 2022 for the course.
4. Ms. Gejo George was appointed as a member of the Syllabus Drafting Committee for "ECCDLO8022 - Satellite and Nano Satellite Communication" for the R2019 C scheme.

5. Ms. Namita Agarwal was appointed as a Member of the University of Mumbai Syllabus Drafting Committee "ECC 602 Computer Communication Networks", R-2019 C - Scheme. She was also an organizing team for the Online Faculty Orientation Programme on behalf of University of Mumbai on January 14, 2022.
6. Mrs. Poonam Chakraborty was appointed as a member of the Syllabus Drafting Committee for "ECCDLOC 8023 Network & Management in Telecommunication" for the R2019 C scheme.

CERTIFICATIONS BY FACULTY MEMBERS

1. Dr. Sudhakar Mande completed the NPTEL courses on
   "Introduction to the Internet of Things" in December 2021.
   "Hardware Modelling Using Verilog" with an Elite certificate in December 2021.
   "C-Based VLSI Design" with an Elite certificate in December 2021.
2. Mrs. Pratibha Dumane completed Certificate Courses on
   "Advanced Neural Networks in R - A Practical Approach" by Udemy.
   "Natural Language Processing Real-World Projects in Python" by Udemy.

INVITED TALKS BY FACULTY MEMBERS

1. Ms. Freda Carvalho & Mr. Tayyabali Sayyed, Faculty-IT Dept. conducted a hands-on training session on “Moodle” for Faculty Members of Holy Family Institute of Nursing Education, Kurla (W), Mumbai, on 05 & 07 July 2021.
2. Dr. Sudhakar Mande delivered a webinar on “Recent trends and Career Opportunities in Electronics & Telecommunication Engineering” at St. John Institute of Technology, Palghar, Thane in August 2021.. URL: https://drive.google.com/drive/shared-with-me
3. Dr. Sudhakar Mande delivered a webinar on “What is Final Year Engineering Project (FYEP)” to Final Year Engineering students at DBIT in August 2021. URL:.http://drive.google.com/drive/folders/1bZ01wVyYkKNLt-eanlu_Bbtj_eSIKu-E
4. Dr. Ashwini Kotrashetti delivered a talk on “Financial Planning, Sponsorships and Collaboration with IEEE MTT-S” at the 2021 R10-POCO Virtual Workshop on 21 August 2021.
5. Mrs. Poonam Chakraborty delivered a talk on “Passive Optical Networks” on 02 September 2021 for the final year EXTC students of Xavier Institute of Engineering, Mumbai.
6. Dr. Sudhakar Mande delivered a talk on “Overview of Memory and Storage Devices” at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai in September 2021.
7. Mrs. Pratibha Dumane was invited to deliver a talk on “Becoming Future-Fit” during the Induction Programme for the first year students of Government Polytechnic, Pen, District Raigad, Maharashtra on 12 October 2021.

8. Dr. Sudhakar Mande delivered a webinar for parents and students of standard XII on “Electronics & Telecommunication Engineering: Scope & Opportunities” on 30 October 2021.
   URL: https://www.youtube.com/watch?v=fQHKXp8suWk
9. Dr. Ashwini Kotrashetti delivered a talk on “Radar Sensors” at the 27th National Conference on Sensors in Automation organized on 19-20 November 2021.
10. Ms. Freda Carvalho and Mr. Tayyabali Sayyed, Faculty-IT Dept., conducted a hands-on training on “Moodle” for the teaching staff of Pillai College of Engineering, New Panvel on 26 January, 2022.
11. Dr. Sudhakar Mande delivered a talk on “Bloom's Taxonomy: Tool for Enhancing Quality of Engineering Education” on 01 April 2022 in the IQAC Talks Series organized by Oriental Institute of Sciences and Technology, Jabalpur.
12. Dr. Sudhakar Mande delivered a talk on “Bloom’s Taxonomy: Tool for Writing Quality Course Outcomes and to Establish Efficient CO-PO-PSO Correlation Matrix” during Faculty Development Programme at DBIT on 24 May 2022.
13. Mrs. Pratibha Dumane conducted a session on “Becoming Future Fit” under the Value Added Course organized for the first year students of DBIT on 21 & 28 April 2022.
14. Mrs. Gejo George conducted a session on “Effective Team-Work” under the Value Added Course organized for the First Year Students of DBIT on 13 & 19 May 2022.

STUDENTS ACHIEVEMENTS

1. Rakshita Khantwal, Sarika Galphade, Adarsh Rao secured the Second, Third and Consolation Prize in the Technical Writing Competition conducted by IETE-DBIT-ISF on behalf of IETE Mumbai Centre as part of the IETE Student’s Day Celebration on 01 February 2022.
2. Pratham Amare, Pratham Koturwar, Bhagyesh Manjrekar secured the First Prize in Technical Treasure Hunt Competition organized under Oscillations 2022.

3. Rohit Gupta, Kshitij Bare, Nitish Chavan secured the Second Prize in Technical Treasure Hunt Competition organized under Oscillations 2022.
4. Satyam Shukla, Jay Dulange, Leroy Rodrigues secured the Third Prize in Technical Treasure Hunt Competition organized under Oscillations 2022.

EXTC STUDENTS IN STUDENTS COUNCIL

DESIGNATION	STUDENT NAME	CLASS
CULTURAL SECRETARY	MR. ABDUL REHMAN KHAN	BE EXTC
SPORTS SECRETARY	MR. SAHIL YELGONDA	BE EXTC

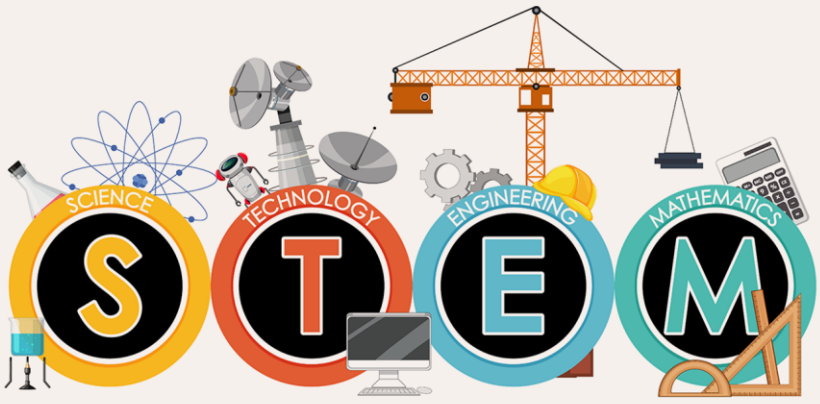
GUEST LECTURES

TOPIC	RESOURCE PERSON	ORGANIZATION	DATE
SONET/SDH	MRS. SHAILEJA UDTEWAR	XAVIER INSTITUTE OF ENGINEERING, MUMBAI	9 September 2021
MICROWAVE HEATING USING MAGNETRONS	MR. RAJESH RANGARI	SCIENTIST E, HOD OF EMI/EMC DIVISION, SAMEER, MUMBAI DIVISION	16 October 2021
VANET	DR. AMIYA KUMAR TRIPATHY	PROFESSOR, COMPUTER DEPARTMENT, DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA	28 March 2022
CONSIDERING EMC AT DESIGN STAGES	MR. RAJESH RANGARI	SCIENTIST E, HOD OF EMI/EMC DIVISION, SAMEER, MUMBAI DIVISION	9 April 2022

ALUMNI INTERACTIONS

TOPIC OF THE EVENT	DATE	ALUMNUS SPEAKER
USE OF CNN FOR CLASSIFICATION WITH GOOGLE COLAB	3 July 2021	MR. ABHIRAM PILLAI (BATCH OF 2021)
THE DATA JOURNEY FROM SOURCE TO VISUALISATION	21 October 2021	MS. TANUJA MEHRA, (BATCH OF 2019) INCUBYTE DATATECH
CYBER SECURITY	14 March 2022	MS. SANJANA INGALE (BATCH OF 2017) CONSULTANT - CYBER & STRATEGIC RISK, DELOITTE INDIA (OFFICE OF THE US)

OUTREACH ACTIVITIES

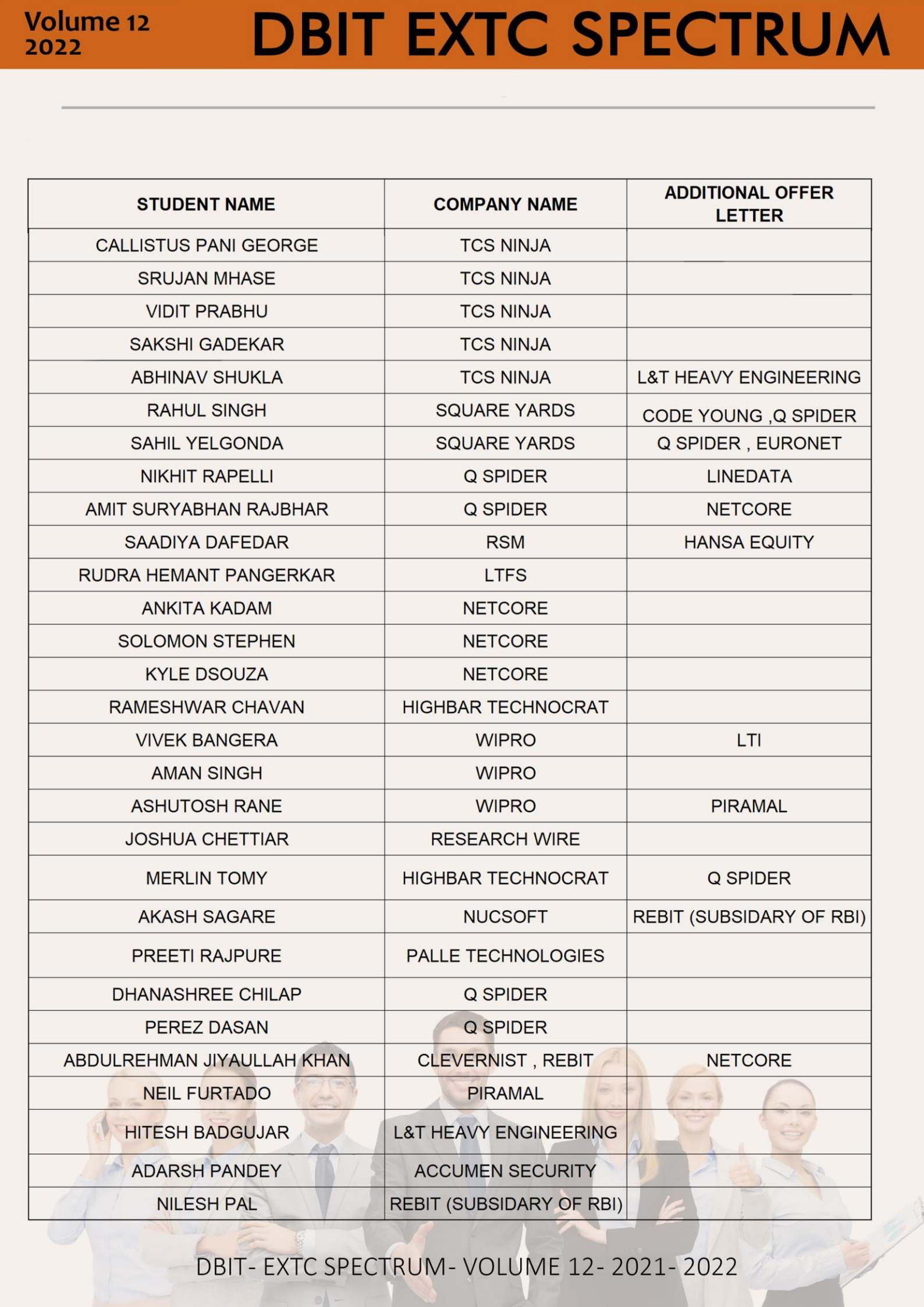


1. Ms. Freda Carvalho & Mr. Jithin Isaac conducted STEM courses on “merApp: Mobile App Development” and “NatureSense: Basics of Electronics & Integration with Sensors” for low income school children under “Engineering Futures - CrEAST” program, a funded project of L&T CSR Department from 1 July 2021 to 31 Dec 2021. The program was coordinated by Dr. Ashwini Kotrashetti.
2. Ms. Gejo George alongwith the IEEE student volunteers conducted a hands-on training workshop on “Techworld - a STEM Workshop” for the students of class 8 and 9 at Mumbai Utkal English School and Shishu Vikas Mandir on 25 February 2022 and 08 March 2022 respectively.

STUDENT PLACEMENTS

STUDENT NAME	COMPANY NAME	ADDITIONAL OFFER LETTER
VELTON D'SOUZA	LTI	
ROHAN GHAI	LTI	
VAIBHAV PARATE	EVOSYS GLOBAL	LINK GROUP
MANAS BHANDARKAR	EVOSYS GLOBAL	LINK GROUP
SADANAND CHAUHAN	EVOSYS GLOBAL	SAMSUNG
SAURABH SHETE	EVOSYS GLOBAL	CAPGEMINI
CHAITANYA MUZUMDAR	EVOSYS GLOBAL	ACCUMEN SECURITY
VARUN GOKRAN	EVOSYS GLOBAL	
RITIK KUMAR	LINK GROUP	L&T HEAVY ENGINEERING
AMAN KHAN	JIO	
ARKA DEY	JIO	LTFS
PRAMOD MOHANTY	JIO	
SHANTANU PATIL	JIO	
AJITHA RAJKUMAR	JIO	
KRUPAKAR ARROJU	JIO	
ABHIJIT MORE	JIO	TCS NINJA
SHARDUL POWALE	JIO	TCS NINJA
JAMES KUNDUKULANGARA	JIO	TCS NINJA
BALKRISHNA SAWANT	HEXWARE	TCS NINJA
BHAVESH BARDE	CAPGEMINI	
SHUBHANGI KATARIYAR	CAPGEMINI	TCS DIGITAL
VEDANT DEVRUKHKAR	GROWISTO	

STUDENT NAME	COMPANY NAME	ADDITIONAL OFFER LETTER
CALLISTUS PANI GEORGE	TCS NINJA	
SRUJAN MHASE	TCS NINJA	
VIDIT PRABHU	TCS NINJA	
SAKSHI GADEKAR	TCS NINJA	
ABHINAV SHUKLA	TCS NINJA	L&T HEAVY ENGINEERING
RAHUL SINGH	SQUARE YARDS	CODE YOUNG ,Q SPIDER
SAHIL YELGONDA	SQUARE YARDS	Q SPIDER , EURONET
NIKHIT RAPELLI	Q SPIDER	LINEDATA
AMIT SURYABHAN RAJBHAR	Q SPIDER	NETCORE
SAADIYA DAFEDAR	RSM	HANSA EQUITY
RUDRA HEMANT PANGERKAR	LTFS	
ANKITA KADAM	NETCORE	
SOLOMON STEPHEN	NETCORE	
KYLE DSOUZA	NETCORE	
RAMESHWAR CHAVAN	HIGHBAR TECHNOCRAT	
VIVEK BANGERA	WIPRO	LTI
AMAN SINGH	WIPRO	
ASHUTOSH RANE	WIPRO	PIRAMAL
JOSHUA CHETTIAR	RESEARCH WIRE	
MERLIN TOMY	HIGHBAR TECHNOCRAT	Q SPIDER
AKASH SAGARE	NUCSOFT	REBIT (SUBSIDARY OF RBI)
PREETI RAJPURE	PALLE TECHNOLOGIES	
DHANASHREE CHILAP	Q SPIDER	
PEREZ DASAN	Q SPIDER	
ABDULREHMAN JIYAULLAH KHAN	CLEVERNIST , REBIT	NETCORE
NEIL FURTADO	PIRAMAL	
HITESH BADGUJAR	L&T HEAVY ENGINEERING	
ADARSH PANDEY	ACCUMEN SECURITY	
NILESH PAL	REBIT (SUBSIDARY OF RBI)	



INTERNSHIPS IN INDUSTRY

STUDENT NAME	ORGANISATION
ABHIJIT MORE	THE SPARK FOUNDATION: GRIP (WEB DEVELOPMENT & DESIGNING)
VAIBHAV PARATE	DEVARENA SOLUTIONS
SRUJAN MHASE	RAJASTHAN STUDIO
JAMES ROBIN	THE SPARK FOUNDATION: GRIP
MERLIN TOMY	UNITED HVAC PVT LIMITED, THE SPARK FOUNDATION: GRIP
AJITHA RAJKUMAR	IEEE-DBIT, ALLONSY VENTURE
ANKITA KADAM	TCR INNOVATION
KHAN ABDUL REHMAN	CAMPUS AMBASSADOR - IIM BANGALORE'S VISTA CURRICULUM WRITER - TEAM EVEREST NGO MINDELY - BUSINESS DEVELOPMENT ASSOCIATE
ATUL KUMAR	NATURE SENSE ENGINEERING FUTURE - CrEAST-DBIT & ST. JTS IN ASSOCIATION WITH L&T
AMAN KHAN	IIT BHU
VELTON D'SOUZA	FIELDS DATA
SHUBHANGI KATARIYAR	LABDOX PVT. LTD
HITESH BADGUJAR	IIT BHU
SOLOMON STEPHEN	IIT BHU
MAGDELINE JAMES	ALPHA IMPEX PVT. LTD
ANKIT NAPHADE	SHAVISON ELECTRONICS PVT. LTD
VINEETH VIKRAMSINGH	LEAD AND SALES

INTERNSHIPS IN INDUSTRY

STUDENT NAME	ORGANISATION
PREETI RAJPURE	TCR INNOVATION
SHARDUL POWALE	THE SPARK FOUNDATION: GRIP
SAKSHI GADEKAR	MAHINDRA SUSTEN (MSCOE)
ASHUTOSH RANE	WELLNESS FOREVER MEDICARE PVT. LTD
SADANAND CHAUHAN	IIT BHU
SHANTANU PATIL	THE SPARK FOUNDATION: GRIP
AMIT RAJBHAR	RISHABH ELECTRONICS
RUTVIK KADAM	SHAVISON ELECTRONICS PVT. LTD
NILESH PAL	ASHISH TELECOM AND SOLUTIONS
RAHUL SINGH	LARSEN & TOUBRO
ASHWINI SAPKALE	EDGATE TECHNOLOGY PVT. LTD
KRUPAKAR ARROJU	TRI VISION ENGINEERING

IEEE-DBIT STUDENT BRANCH

IEEE STUDENT BRANCH ACTIVITIES

WORKSHOPS		
TOPIC	**DATE**	**SPEAKER**
TINKERCAD WORKSHOP	3 - 4 JULY 2021	MR. VELTON D'SOUZA MS. AJITHA RAJKUMAR
INTRODUCTION TO CONVOLUTIONAL NEUTRAL NETWORKS (CNN) AND ITS USES FOR IMAGE CLASSIFICATION	28 SEPTEMBER 2021	DR. BHAKTI VILAS BAHETI POSTDOCTORAL RESEARCHER, DEPARTMENT OF RADIOLOGY, PERELMAN SCHOOL OF MEDICINES, PENNSYLVANIA, USA

INTERACTIONS WITH ALUMNI		
TOPIC	**DATE**	**SPEAKER**
PRODUCT DEVELOPMENT AND ENGINEERING DESIGN AS A CAREER	12 APRIL 2021	MR. GAURAV PEDNEKAR (ALUMNUS - 2015 BATCH) DESIGN ENGINEER CONSULTANT, CAPGEMINI INDIA TECH. SERVICE
AN INSIGHT INTO LIFE AFTER DBIT	13 APRIL 2021	MS. LAKSHMI PRASAD (ALUMNUS - 2017 BATCH) SCIENTIST, LIQUID PROPULSION SYSTEMS CENTRE
INSIGHT INTO LIFE @ DBIT	5 JUNE 2021	MS. MINITA JOSHEE (ALUMNUS - 2021 BATCH) ASSISTANT SYSTEM ENGINEER - TRAINEE AT TATA CONSULTANCY SERVICES

IEEE STUDENT BRANCH ACTIVITIES

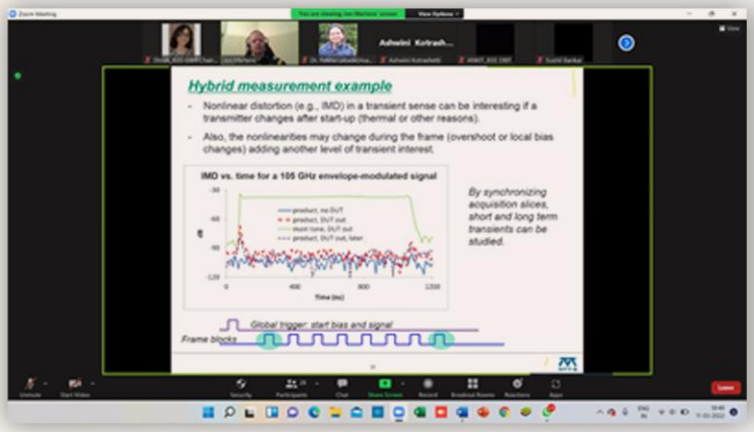
WEBINARS		
TOPIC	**DATE**	**SPEAKER**
2 HALF-DAY ONLINE SYMPOSIUM ON "5G: A CATALYST TO DIGITAL REVOLUTION"	8 - 9 OCTOBER 2021	MR. HERMES JOEL FOUNDER & DIRECTOR, TARANGA SYSTEM LTD., LEICESTER, UK.
		DR. JAUME ANGUERA FOUNDER & CTO, IGNION, ASSOCIATE PROFESSOR, UNIVERSITAT RAMON LLULL, BARCELONA, SPAIN.
		DR. SAIDHIRAJ PRINCIPAL RESEARCH ENGINEER, WISIG NETWORKS. ADJUNCT ASSISTANT PROFESSOR, IIT HYDERABAD.
		DR. JASMIN GROSINGER ASSOCIATE PROFESSOR & DL INSTITUTE OF MICROWAVE & PHOTONIC ENGINEERING, UNIV. OF TECHNOLOGY, GRAZ, AUSTRIA.
ROBOTON - ROBOTICS SYMPOSIUM	15 - 17 OCTOBER 2021	MR. SAPTARSHI MUKHERJEE, MR. LENTIN JOSEPH, MR. SALMON JOY
WHAT IS MY MEASUREMENT EQUIPMENT ACTUALLY DOING ? (MTTS)	11 MARCH 2022	DR. JON MARTENS, ENGINEERING FELLOW, ANRITSU, SAN JOSE, CALIFORNIA, USA.
CONSIDERING EMC AT DESIGN STAGES (MTTS)	9 APRIL 2022	MR. RAJESH RANGARI, SCIENTIST - E, SAMEER, MUMBAI.

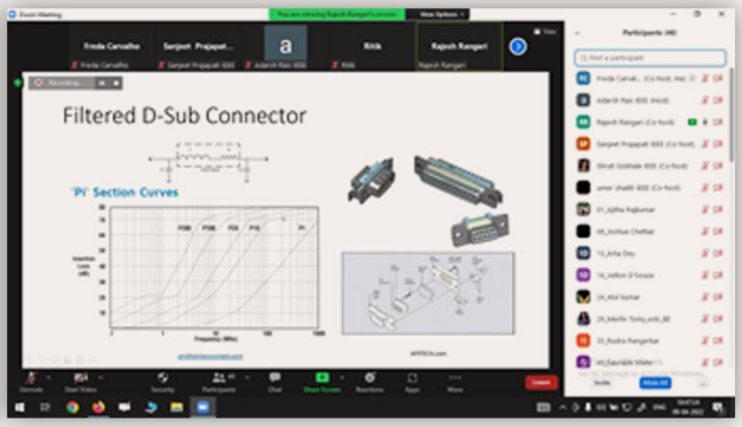
IEEE STUDENT BRANCH ACTIVITIES

TALKS		
TOPIC	**DATE**	**SPEAKER**
DOCUMENT VERSION CONTROL USING GIT & GITHUB	3 SEPTEMBER 2021	MS. AJITHA RAJKUMAR MR. PRAMOD
IEEE MEMBERSHIP AWARENESS	24 SEPTEMBER 2021	DR. ASHWINI KOTRASHETTI MR. SHREYAS KULKARNI

OTHER ACTIVITIES OF IEEE-DBIT STUDENT BRANCH

1. Everything about IEEE | What it is and it's benefits on 21 February 2021
2. IEEE Student Memberships Benefits on 24 February 2021 by Ms. Ajitha Rajkumar
3. A Walk Down Memory Lane of Core Team 2020 on 25 February 2021
4. IEEE Grants & Funding on 05 March 2021
5. Microwave Mondays on 22 March 2021, 5, 12, 19 April 2021, 03 May 2021, 22 & 28 June 2021
6. Mystery Word Puzzle on 08 April 2021 by Ms. Ajitha Rajkumar
7. Content Writing Competition on 08 April 2021
8. WIE Wednesday on 23 June 2021 & 30 June 2021





IETE-DBIT-ISF STUDENT CHAPTER

IETE-DBIT ISF ACTIVITVIES

QUIZZES

- Quiz on Data Analytics on 23 November 2021.
- Quiz on Predict the Output on 11 December 2021.
- Quizathon on 31 January 2022.

COMPETITIONS

- Poster Making Competition was organized on 27 February 2021 under Oscillations 2022.
- Technical Writing Competition on 01 February 2022 as a part of the IETE Students' Day Celebrations.
- Technical Treasure Hunt on 11 April 2022.

WORKSHOPS

- Workshop on WordPress (Collab) on 20 September 2021.
- Workshop on Proteus on 09 October 2021 .

ACTIVITIES JOINTLY ORGANIZED BY IEEE-DBIT & IETE-DBIT-ISF

- Bug Busters on 01 April 2021
- Introduction to Micro Bit using TinkerCad 24- 25 March 2021 by Mr. Ashutosh Rane (IEEE), Mr.Sadanand (IETE), Ms. Aparna(IETE), Ms. Purva (IETE) , Ms. Prajna (IEEE)

Congratulations!

IETE-DBIT-ISF was one of the ISFs that were selected as the BEST ISFs by the IETE Mumbai Centre for the academic year 2021-22. The IETE DBIT Student Chapter Coordinator Mrs. Poonam Chakraborty received the award during the IETE Oscillations Valedictory Ceremony on 16 April 2022.

SYMPOSIUM ATTENDED BY FACULTY MEMBERS

Mrs. Pratibha Dumane and Mrs. Gejo George attended Online National Industry Institute Symposium on "Enhancing Employability of Engineering Graduates through Implementation of NEP-2020" organized by the Training & Placement Cell of Thakur College of Engineering and Technology, Mumbai on 10 July 2021.

FACULTY DEVELOPMENT PROGRAMS

1. Ms. Madhavi S. Pednekar attended the ISTE approved one week online FDP on “Sensor Technology” during 5-10 July 2021 organized by the Department of Electronics and Telecommunication Engineering, Xavier Institute of Engineering, Mahim, Mumbai.
2. Mrs. Gejo George attended a one week FDP on “Incorporating Universal Human Values in Education (an AICTE initiative)” from 26-30 July 2021.
3. Mrs. Pratibha Dumane attended a six days online FDP on “AI & Data Science - The Future of Tomorrow” organized by Dept. of Computer Engineering, Rajiv Gandhi Institute of Technology, Mumbai from 29-31 July 2021 and 5-7 August 2021.
4. Mrs. Pratibha Dumane attended a five day FDP on “Incorporating Universal Human Values in Education”' organized by All India Council for Technical Education (AICTE) from 16-20 August 2021.
5. The department faculty participated in a session conducted by Dr. S. Krishnamoorthy on “Integrated Project Based Learning” on 02 December 2021.
6. The department faculty members attended a one day FDP on “Working Harmoniously for Institution Building” conducted by Rev. Fr. Godfrey D’Sa, Founder-Director, Prafulta, Centre for Psychological Wellness on 26 March 2022 at DBIT.
7. Mrs.Namita Agarwal attended a one week FDP on “Incorporating Universal Human Values in Education” a joint initiative of UGC-AICTE from 06-10 June 2022.

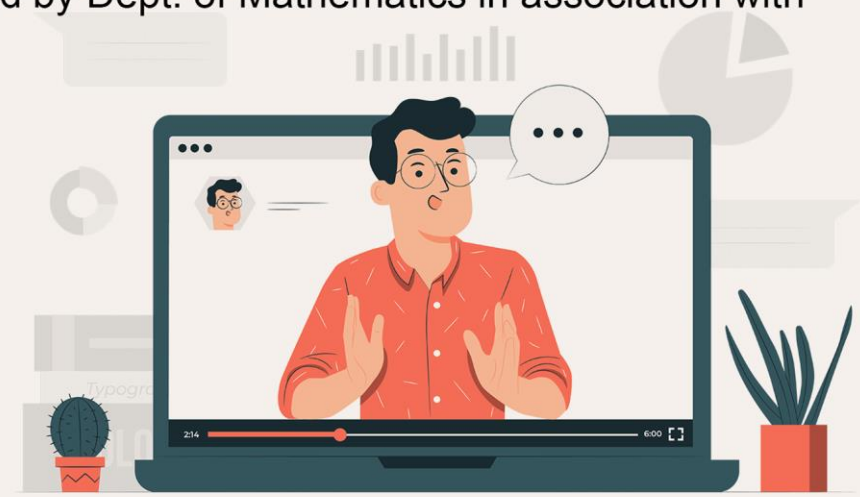
SHORT TERM TRAINING PROGRAMMES AND WORKSHOPS ATTENDED BY FACULTY MEMBERS

1. Mrs. Namita Agarwal attended an AICTE sponsored one week online STTP on "Natural Language Processing with Google AI and Dialog Flow and its Application" organized by Usha Mittal Institute of Technology, Mumbai, from 21-26 June 2021.
2. Mrs. Aparna Telgote and Mrs. Poonam Chakraborty attended AICTE sponsored one week online STTP on "Telecommunication Networks - Phase II" organized by Vidyalankar Institute of Technology, Mumbai, from 5-10 July 2021.
3. Mrs. Namita Agarwal participated in a workshop on "Introduction to Virtual Labs" organized by ICFAI University, Jaipur in collaboration with IIT Delhi on 30 July 2021.
4. Mrs. Pratibha Dumane attended a two-day online workshop on "Write Research Article using LaTeX" organized by Aditya College of Engineering, Surampalem, Andhra Pradesh on 27-28 December 2021.
5. Mrs. Pratibha Dumane attended a 5-day workshop on "Creating Dynamic Dashboards" organized by Skill Nation from 1-6 March 2022.

WEBINARS ATTENDED BY FACULTY MEMBERS

1. Mrs. Pratibha Dumane attended a webinar on "Cyber Forensics: Investigation Techniques and Tools for Contemporary Cyber Crimes" organized by Bharati Vidyapeeth's Institute of Computer Applications and Management, New Delhi on 10 July 2021.

2. Mrs. Pratibha Dumane attended a webinar on “Essential Mathematics for Machine Learning” organized by Dept. of Mathematics in association with IQAC, Guru Nanak College, Chennai on 03 August 2021.
3. Mrs. Pratibha Dumane attended a webinar on “Strategic Approach for Research and Innovation” organised by AICTE on 26 August 2021.



4. Mrs. Namita Agarwal attended a webinar on “AI in Healthcare” organized by Society Of Indian Radiographers and Technologists, Coimbatore, Tamil Nadu on 09 October 2021.
5. Mrs. Pratibha Dumane participated in the online training/webinar on “IEEE Xplore” organised by Don Bosco Institute of Technology on 13 November 2021.
6. Mrs. Pratibha Dumane attended a webinar on “ANN Basics, Deep Learning & its Applications” organized by Bharati Vidyapeeth’s Institute of Computer Applications and Management, New Delhi on 20 November 2021.
7. Mrs. Namita Agarwal attended a webinar on “Industry 4.0 - Trends and Challenges” organized by Bharati Vidyapeeth’s Institute of Computer Applications and Management, New Delhi on 27 November 2021.
8. Mrs. Pratibha Dumane attended a webinar on “Work from Home - New Norm? Opportunities and Challenges” organized by Bharati Vidyapeeth’s Institute of Computer Applications and Management, New Delhi on 18 December 2021.
9. Mrs. Pratibha Dumane attended a webinar on “Machine Learning Algorithms and Behaviour of Data” organized by Bharati Vidyapeeth’s Institute of Computer Applications and Management, New Delhi on 04 March 2022.
10. Mrs. Namita Agarwal attended a webinar on “Artificial Intelligence and Mass Media” organized by Bharati Vidyapeeth’s Institute of Computer Applications and Management, New Delhi on 29 January 2022.
11. Mrs. Namita Agarwal attended a webinar on “Aspirations and Innovation” organized by the Department of IT and NSS, DBIT on 10 March 2022.

12. Mrs. Namita Agarwal attended a webinar on "The Art of Drone Technologies" organized by Bharati Vidyapeeth's Institute of Computer Applications and Management, New Delhi on 12 March '22
13. Mrs. Namita Agarwal attended a webinar on "Cyber Security in the Digital Era" organized by Department of EXTC and IT, DBIT on 24 March 2022.
14. Mrs. Namita Agarwal attended a webinar on "Cyber Forensic Audit: Changing Role of Auditors" organized by Bharati Vidyapeeth's Institute of Computer Applications and Management, New Delhi on 02 April 2022.
15. Mrs. Namita Agarwal attended an Online National Webinar on "Understanding PCOS" organized by IEEE WiE Bombay Section in collaboration with Association of Social Service Superintendents, Maharashtra on 09 April 2022.

INNOVEX 2022

The sixth edition of the Final Year Annual Project Exhibition 'INNOVEX 2022' was presented by the final year students of DBIT on 13 April 2022. Mr. Sahil Gandhi, Manager - Central Depository Services (India) Limited (Batch 2005 DBIT Alumnus) was the Chief Guest for the event.

The Department of EXTC exhibited 14 projects of the 19 projects which were shortlisted by the department after an internal review.

The projects were under the following four categories: 1) Product Development 2) Emerging Technologies 3) Research 4) Sustainability.

The judges for INNOVEX 2022 for the Department of EXTC were Mr. Jovin Miranda, Senior Applications Engineer at Synopsys Inc., Santa Clara, California, USA and Dr. Dhananjay Patel, Associate Professor at Vidyalankar Institute of Technology, Mumbai, India.

INNOVEX 2022 WINNERS			
POSITION	**PROJECT TITLE**	**NAME OF STUDENTS**	**PROJECT GUIDE**
FIRST PRIZE AND WINNERS OF PROF. D. SUNDARAJAN AWARD	LOW COST PORTABLE DIGITAL STORAGE OSCILLOSCOPE	JOSHUA CHETTIAR NILESH DHARAP ATUL KUMAR ANKIT KUMAR	MR. YOGESH GHOLAP
SECOND PRIZE	DESIGN & ANALYSIS OF A COMPACT METASURFACE FILTER	HITESH BADGUJAR AMAN KHAN	DR. ASHWINI KOTRASHETTI
	&		
	DESIGN & ANALYSIS OF A COMPACT METASURFACE BASED PHASE-SHIFTER	SADANAND CHAUHAN SOLOMON STEPHEN	MS. FREDA CARVALHO
THIRD PRIZE	SMART VOTING MACHINE USING FPGA	CALLISTUS PANI GEORGE RITIK KUMAR VIVEK BANGERA JAMES KUNDUKULANGARA	DR. SUDHAKAR MANDE

Mr. Sahil Gandhi, Chief Guest

Inauguration

Students Demonstrating their Projects