



2021 - 2022

# ANNUAL REPORT

**DON BOSCO INSTITUTE OF TECHNOLOGY,  
MUMBAI**



## **VISION**

DBIT will be known to have an innovative, enjoyable and holistic learning environment that transforms individuals into socially conscious citizens the Don Bosco way, and will lead in research and entrepreneurship in the area of sustainable technologies.

## **MISSION**

- To create future engineers who work with honesty and integrity and excel in the use of technology for the benefit of the underprivileged.
- To train engineers to be innovative problem solvers and entrepreneurs who engages in research and life-long learning.
- To provide a diverse and stimulating environment for staff and students to grow holistically.

## From The Director's Desk



When Don Bosco Institute of Technology (DBIT) was established, it was our hope and endeavor that every young person we engage with at DBIT would walk away with dignity, confident that he or she has the requisite competencies to be an innovative contributor to the professional world. But that is not all. Every DBITian would also be that kind of a Human Being that recognizes his or her responsibility to add value and goodness to Life and the world we live in. This would not only make India proud but would also enable our graduates to be on the world stage.

So In keeping with the tradition of Don Bosco, DBIT creates an environment that fosters in depth learning. Striving for excellence is nurtured and supported with mentors and opportunities to charter one's own path to life's ambitions. This is enabled through innovative teaching learning methodologies partnering with industry experts, international agencies and research. All this with the feeling that you are among friends.

DBIT is an institution that works in harmony with all stakeholders. Given the infrastructure, the well-equipped labs, spacious playgrounds, the kind of cultural and technical events ably organized by the different clubs, cells and chapters, each one's expertise and talents are welcomed, enhanced and recognized. This results in higher self-worth, promotes cooperation, fuels aspirations and helps students discover themselves.

We live in a Technology driven world but we cannot forget that the earth sustains us and we have a responsibility to care for it. So while grappling with the challenges of Industry 4.0 and racing to keep abreast of it we remind ourselves that we must contribute to a sustainable world. That is why at DBIT there is a thrust to work with and for the local community as well as the underprivileged and those on the fringes of society. Technology must be at the service of the poorest and the remotest. Only then will our education be inclusive and truly life enriching.

**FR. MARIO VAZ**

## Principal's Message

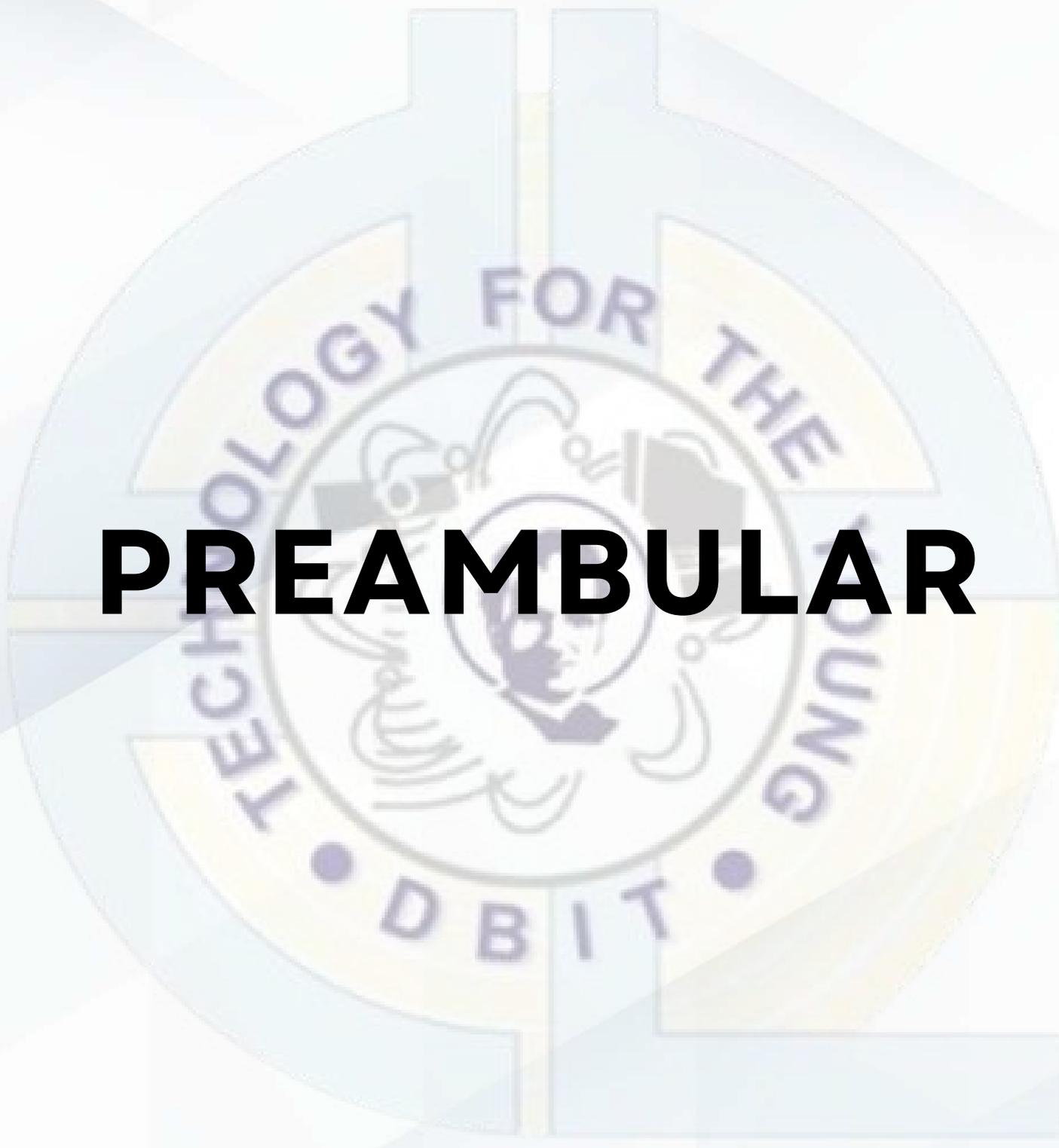


It gives me immense pleasure to present our Annual Report for the academic year 2021-22. This has been an eventful year in every sense and has challenged us as never before. The lockdown pushed us into a phase of surprise, confusion, chaos amongst other things. Important activities that were lined up for the academic term like the alumni SYNCHRONY MEET, the much anticipated project exhibition cum competition, INNOVEX-21 and INNOVEX- 22, the eagerly awaited FAREWELL, all seemed impossible to conduct. But the ‘ never say die ‘ spirit of the faculty and their innovativeness, coupled with the enthusiasm of the students ensured that most events were held in the online mode with as much pomp and fervor as possible. Then came the challenge of online conduct of lectures and practicals. Here again the faculty rose to the I and displayed their creative and innovative side to try various platforms and tools to engage the students as deeply as possible, in the process setting up some good practices to be emulated by others Be it mentoring, placement drives, social engagement of students, conduct of technical and cultural festivals, we did it all.

However actual engagement in the class physical participation in events and activities was sorely missed. The Annual Report captures all the information and images of the events that defined 2021-22. I compliment the faculty and student team that has put in several hours in editing and formatting this book. Let's hope that in 2022-23 we are able to bring back the personal touch in our professional life.

**DR. PRASANNA NAMBIAR**

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# **PREAMBULAR**

# **LIST OF MEMBERS OF THE** **GOVERNING COUNCIL-21-22**

<b>Sr.No</b>	<b>Name</b>	<b>Position</b>	<b>Organization</b>
1	Fr. Savio Silveira	Chairman	Provincial of the Bombay Salesian Society
2	Fr. Anthony Pinto	Director of DBIT	Nominee of the BSS Board of Trustees
3	Fr. Mario Vaz	Executive Director, DBIT	Nominee of the BSS Board of Trustees
4	Fr. McEnroe Lopez	Administrator, DBIT	Nominee of the BSS Board of Trustees
5	Dr. M.Sasikumar	Associate Director, CDAC	Nominee of the BSS Board of Trustees
6	Prof. Albert D'Souza	Chairman and Managing Director	Aldel Education TrustPrintannia Industries
7	Prof. Vijay Joshi	Managing Director	Esmech Equipment Pvt. Ltd.
8	Prof. Richard D'souza		
9	Dr. Prasanna Nambiar	Principal, DBIT	Member Secretary
10	Dr. S. Krishnamoorthy	Advisor	Educationist
11	Dr. Sudhakar Mande	Dean Administration	Faculty Representative

# LIST OF DEANS, HEADS OF DEPARTMENTS AND OTHER OFFICE BEARERS (2021-22)



**Dr. S. S. Mande**  
Dean of Administration



**Dr. Satish Chavan**  
Dean of Academics



**Dr. Pradeepkumar Suryawanshi**  
Dean of Innovation & Entrepreneurship  
H.O.D. MECH



**Prof. Shiv Negi**  
Dean of Research & Development



**Dr. Ashwini Kotrashetti**  
H.O.D. EXTC



**Prof. Sana Shaikh**  
H.O.D. COMPS (Till DEC'21)



**Dr. Phiroj Shaikh**  
H.O.D. COMPS (From JAN'22)



**Prof. Prasad Padalkar**  
H.O.D. IT



**Dr. Vinod Gokarna**  
H.O.D. B.S.H.



**Dr. Amiya Tripathy**  
Mentor of COMPS & IT  
Departments



**Prof. Imran Mirza**  
Manager of IT Services



**Prof. Sameer Hadkar**  
Controller of Exams

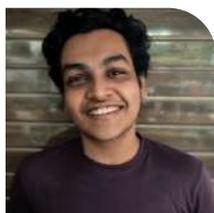
# STUDENT COUNCIL 2021-2022



**Haramal Liddar**  
General Secretary



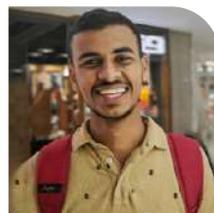
**Adonia Sequeira**  
General Secretary



**Siddhartha Sahu**  
Technical Secretary



**Briana Rajan**  
Technical Secretary



**Indrajeet Yadav**  
Treasurer



**Nirmiti Chutke**  
Treasurer



**Nitin Kak**  
Cultural Secretary



**Khan Abdul Rehman**  
Cultural Secretary



**Amanda Dcunha**  
Marketing Secretary



**Mitul Shetty**  
Marketing Secretary



**Anuranjini Kombar**  
Alumni Coordinator



**Sameer Dhole**  
Alumni Coordinator



**Sahil Yelgonda**  
Sports Secretary



**Prajna Nayak**  
Sports Secretary



**Shalen Mohd.**  
Asst. Cultural Secretary



**Noel Jomichan**  
Asst. Sports Secretary



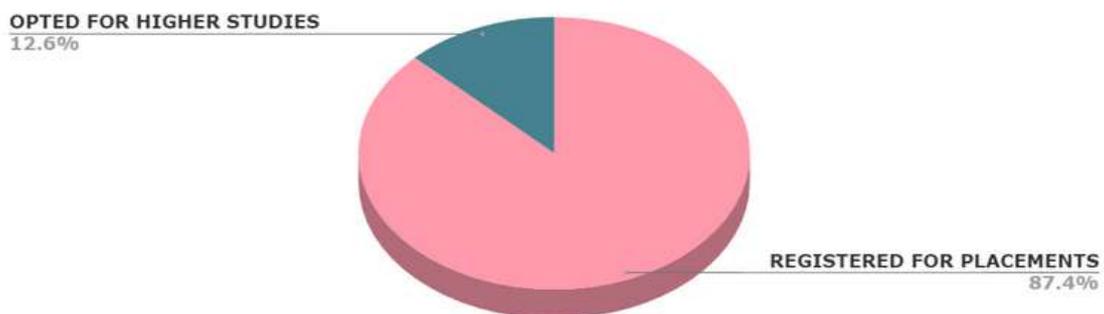
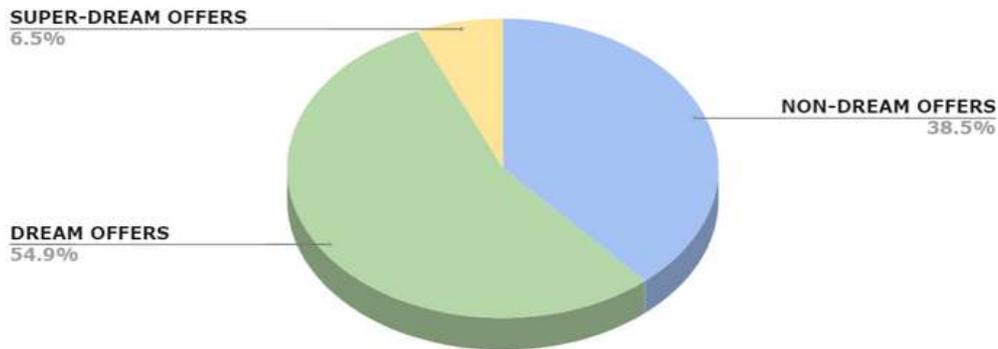
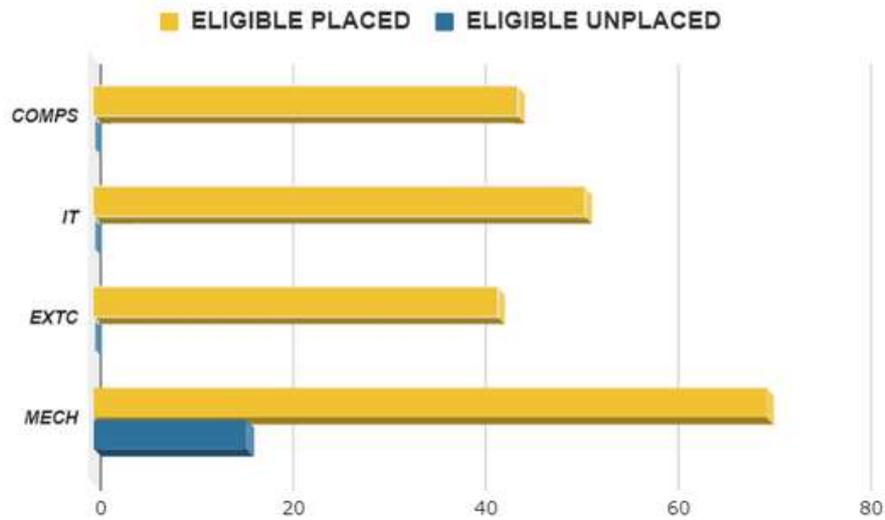
**Suhani Desale**  
Asst. Technical Secretary

# **INSTITUTE LEVEL COMMITTEES**

Name of Committee	Convenor
Technical	Prof. Priya Kaul
Website	Prof. Priya Kaul
Moodle	Dr. Revathy S.
Discipline	Prof. Sejal Chopra
Alumni	Prof. Ditty V.
Cultural	Prof. Deepali K.
Literary Club	Prof. Sachin Sugave
Sports	Prof. Sachin Sheravi
E- Cell	Dr. Pradeepkumar Suryavanshi
Library	Dr. Amiya T.
Project	Prof. Cleta Pereira
NAAC Coordinators	Prof. Namita Agarwal
R & D	Prof. Shiv Negi
Staff Welfare	Prof. Sandeep Dasgupta
Women Development	Prof. Dipti J.
Canteen	Prof. Vaishali K.
Unfair Means	Principal, HODs, Exam Incharge
Placement Committee	Prof. Bharat Bhandary
Outreach Cell	Prof. Johnson Nellisery V
Housekeeping & Maintenance	Prof. Madhavi P.
Industry-Institute Interaction	Prof. Freda C
Grievance Redressal Committee	Prof. Sandeep Sabnis
Mentoring	Dr. Revathy S.
Institute Ranking	Dr. Phiroz S.
Exam Committee	Prof. Sameer H.
Time Table	Prof. Swapnil Gujrathi
Internal Complaints	Prof. Kartiki B.
OBC Cell	Prof. Hemant Hogade
SC/ST	Prof. Sudhakar Ambhore
Minority Cell	Prof. Imran Mirza
Admission	Raju

# PLACEMENT DATA

DBIT's Training And Placement Cell has a student centric approach and we make certain that we connect with as many companies as possible for the placement of our students. **Over 300 companies** from various sectors come to DBIT to recruit the great talent that our institute has to offer.



# HIGHER STUDIES DATA

Students of DBIT have been successful in getting into prestigious universities all over the world. This year too many students went on to complete their higher studies in different streams.

<b>Dept.</b>	<b>COMPS</b>	<b>IT</b>	<b>EXTC</b>	<b>MECH</b>
<b>No. of Students</b>	<b>10</b>	<b>6</b>	<b>5</b>	<b>7</b>

<b>Name of University</b>	<b>Country</b>
New York University	USA
University of Southern California	USA
Northeastern University	USA
Washington University	USA
Arizona State University	USA
University of California, Riverside	USA
Stevens Institute of Technology	USA

<b>Name of University</b>	<b>Country</b>
University of British Columbia	Canada
University of Victoria	Canada
Simon Fraser University	Canada
Technical University of Berlin	Germany
Technical University of Munich	Germany
VIT, Chennai	India
National Institute of Design	India

# INTERNSHIP DATA

DBIT makes sure that its students get to experience the professional world even before they step into it. Thus, our institute provides a variety of internships to the students for their growth. In the academic year of 2021-2022, DBIT's interned at the following companies/institutes and many more.

Toothsi  
The Solar Labs  
Evosys  
Capgemini  
Bentley Systems  
SS&C Technologies  
Mindstix Software Labs  
BrowserStack  
ArconNet  
Netcore  
Technical University of Munich  
VIT, Chennai  
National Institute of Design  
Spoctech Green Ventures Pvt. Ltd ,  
Learn Transformation  
Antennae Ventures Pvt. Ltd.  
Terado Engineering Pvt. Ltd  
AIESEC  
Jobs4U  
CDAC  
Coding Ninjas  
CS Talakunchi  
The Sparks Foundation  
DevArena Solutions  
Rajasthan Studio  
IEEE-DBIT, Allonsy Venture  
TCR Innovation  
Campus Ambassador - IIM Bangalore  
CrEAST, DBIT  
IIT BHU  
Fields Data  
Labdox Pvt. Ltd.  
Alpha Impex Pvt. Ltd.  
Shavison Electronics Pvt. Ltd.  
Lead and Sales

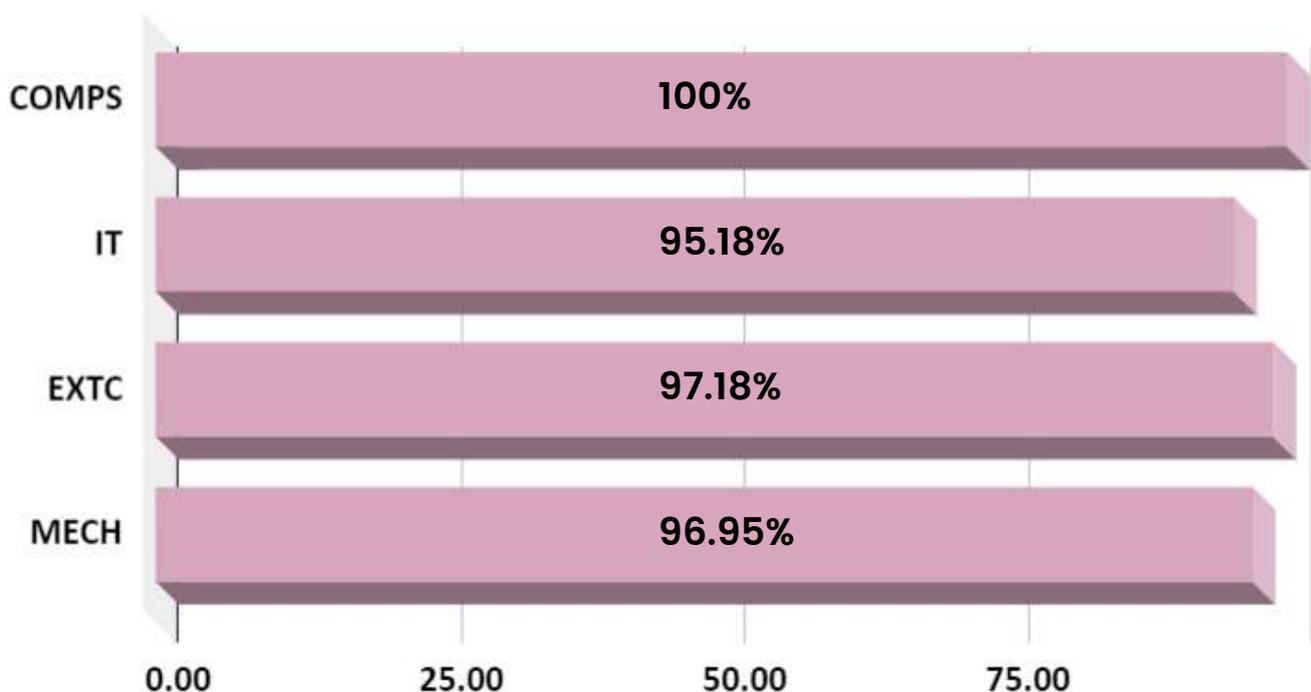
TCR Innovation  
Mahindra Susten (MSCOE)  
Wellness Forever Medicare Pvt. Ltd.  
Rishabh Electronics  
Ashish Telecom and Solutions  
Larsen & Toubro  
Edgate technology Pvt. Ltd.  
Tri Vision Engineering  
Maruti Suzuki Arena  
Godrej & Boyce Mfg. Co. td.  
Tata Motors  
Royal Enfield  
Siemens  
PepsiCo  
Tata Power Thermal Power Plant  
Central Railways Locomotives W/s  
JSW Steel Limited  
Indian Railways, Parel  
Exide Industries Ltd.  
Reliance Retail  
Sharp Engineering  
N. N. Control  
Arsh Hyundai Service Centre  
Oriental Containers Ltd.  
IOCL Gujarat Refinery  
Hindalco  
Wellness Forever Medicare Pvt. Ltd.  
Mazgaon Dock Shipbuilders Ltd.  
Ram Motor Cycle  
White Hat Jr.

# ACADEMIC RESULTS

The students of DBIT have graduated with a wonderful result, making the institute proud of them.

Class	EXTC	COMPS	IT	MECH
Distinction	15	37	24	25
First	49	36	52	86
Second	5	3	3	16
Pass	0	0	0	0
Total Students Passed	69	76	79	127
Total Students Appeared	71	76	83	131

## PASSING PERCENTAGE (BRANCH WISE)




**GETTING INTO PRODUCT BASED COMPANIES**  
 AN EXCEPTIONAL ENGINEER'S DAY TALK  
 BY KEERTI PURSANI

Attending her talk will help you with:
 

- Getting your product based resume
- Building your Engineering portfolio
- Building networking opportunities
- An overview of IT placements
- Interview Preparation guidance

**KEERTI PURSANI**  
 • Software Engineer at Intel  
 • Content Creator on YouTube & LinkedIn  
 • Worked in Electrical Engineering  
 • IIT Bombay

**15TH SEPT 2021**  
**11:00 AM**

[www.youtube.com/watch?v=Kwv1Pwv1Pwv](https://www.youtube.com/watch?v=Kwv1Pwv1Pwv)  
[www.linkedin.com/company/keerti-pursani/](https://www.linkedin.com/company/keerti-pursani/)  
 @keerti\_pursani

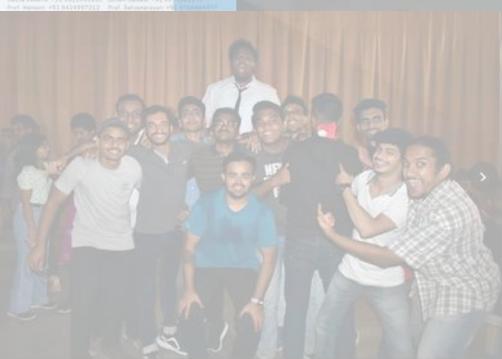
For Further Information, contact:  
 Sachin Desai - 98 102 280001 | Anshu Desai - 98 99900011 |  
 Prof. Anandhi - 98 623280011 | Email: [anandhi@iitb.ac.in](mailto:anandhi@iitb.ac.in)



WIDE/LARGE DEPTH OF FIELD



- 1) Use a Larger Aperture/f stop
- 2) Use the smallest focal length/zoom out
- 3) Move further to the subject
- 4) Increase the distance between the subject & the background if possible



# NEWSWORTHY



# ONLINE ACTIVITIES

Although the first semester of the academic year 2021-2022 was online DBIT continued to conduct both, cultural and technical events for the students.



Teacher's Day



Diwali Competition

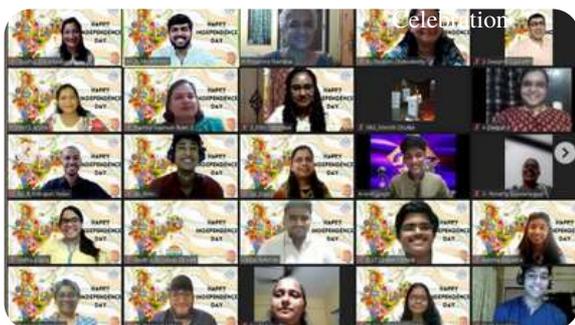
ACTIVITIES

Creative Week



Independence Day

Engineer's Day



# ONLINE ACTIVITIES - SYMPOSIUM ON GEOSPATIAL INTELLIGENCE

On December 3rd and 4th, 2021, a Symposium was held on Geospatial Intelligence. It hosted online with more than 350 participants from over 9 countries. The main objective was to show the prospects of this domain to the students and to know the current thoughts on incorporating **AI algorithms into geospatial surveillance and imagery analysis**. The symposium had some keynote speakers, online training, panel discussions and research done by students. Sponsorships of **USD 4,000** were given.

Research Papers:

1. Vishwakarma, P.P., Tripathy, A.K. & Vemuru, S. Cryptanalysis of Near Field Communication Based Authentication Protocol for Mobile Payment System. *Wireless Pers Commun* 121, 963–983 (2021). <https://doi.org/10.1007/s11277-021-08667-x>

2. H. Gaikwad, N. D'Souza, R. Gupta and A. K. Tripathy, "A Blockchain-Based Verification System for Academic Certificates," 2021 International Conference on System, Computation, Automation and Networking (ICSCAN), 2021, pp. 1-6, doi: 10.1109/ICSCAN53069.2021.9526377.

3. N. Raote, M. S. Khan, Z. Siddique, A. K. Tripathy and P. Shaikh, "Campus Safety and Hygiene Detection System using Computer Vision," 2021 International Conference on Advances in Computing, Communication, and Control (ICAC3), 2021, pp. 1-7, doi:10.1109/ICAC353642.2021.9697148.

4. Copyright: Dataset for fraud detection in NFC-enabled mobile payment model for fraud analytics

Don Bosco Institute of Technology  
COMPUTER DEPARTMENT  
PRESENTS A WEBINAR ON

## Product Development

9th Oct 2021  
Saturday

2:00 pm  
to  
3:00 pm

Speaker  
**Dr. Amiya K. Tripathy**

For more details contact:  
Ms. Sandhya / Ms. Shubra Puro

DON BOSCO INSTITUTE OF TECHNOLOGY, KURLA  
DEPARTMENT OF COMPUTER ENGINEERING

PRESENTS A GUEST LECTURE ON

## DATA ANALYTICS AND SECURITY MECHANISMS FOR SERVICE CHANGE

SEPT 3, 2021  
9AM ONWARDS

Speaker  
**DR. AMIYA KUMAR TRIPATHY**

Faculty Co-animators  
Ms. Sandhya / Ms. Shubra Puro

IEEE-GRSS

## SYMPOSIUM ON GEOSPATIAL INTELLIGENCE

Organised by IEEE-GRSS Bombay Chapter  
in collaboration with GRSS Kolkata & DBIT, Mumbai.

3rd & 4th December 2021 | A Virtual Event

### KEY HIGHLIGHTS OF THE EVENT

- ▶ Inauguration: Fr. Mario Vaz, Dr. P. Nambiar, Dr. A. Bhattacharya, Dr. B. Satyanarayana
- ▶ Keynote Address: Dr. P. Banikajashan, Dr. A. Ghosh
- ▶ Industry Talk: Dr. S. Sawant, Dr. K. Korte, Dr. C. Ojha
- ▶ Expert Talk: Dr. P. Rosen, Dr. S. Durbha, Dr. B. S. Daya Sagar, Dr. A. Marinoni
- ▶ Panel Discussion: Dr. A. Bhattacharya, Dr. S. Mohan, Dr. M. Rao, Dr. P. K. Nanda
- ▶ Student's Research Presentation, Participation Certificate and Awards

REGISTER HERE : <https://tinyurl.com/grss21> (Free Registration)

CONTACT  
Dr. Amiya Tripathy  
Chair, IEEE-GRSS Bombay Chapter  
Email: [amiya@dbit.in](mailto:amiya@dbit.in)

FOR MORE INFORMATION  
Visit  
[www.ieeebombaygrss.org/events](http://www.ieeebombaygrss.org/events)

In Association With



# **ENGINEERING FUTURES – CrEAST PROGRAM**

CrEAST which stands for “Creative Explorations & Advanced Skilling in Technology” is a program specially designed to motivate underprivileged students and students with learning disability (LD), especially girls to take up a career in STEM (Science Technology Engineering & Math).

The programme aims to prepare impoverished and LD students for the future and inspire them to pursue careers in STEM, which will improve their capacity to think creatively and innovatively and make them more useful members of the society.

At Holy Cross High School in Kurla, Mumbai, on August 13, 2021, Rev. Father Anthony Pinto, Rector-Director of Don Bosco Institute of Technology, Mumbai, officially launched "Engineering Futures - CrEAST," a distinctive training programme financed by Larsen & Toubro Ltd. The ceremony was graced by the presence of Rev. Fr. Mario Vaz, Executive Director, DBIT, Ms. Swati Pongurlekar, Assistant General Manager, CSR Department, L&T Ltd, Dr. Prasanna Nambiar, Principal, DBIT, Rev. Fr. Nibert D’Souza, Principal of HCH School, Kurla, Ms. Jeane Gomes, Principal of MH School, Kurla, and Ms. Musarrat Shaikh, Principal of SVM School, Kurla.

The course details are as below:



**Soft Skills - Prof. Sachin Sugave**



**natureSense - Prof. Jithin Issac**



**meraAPP - Prof. Freda Carvalho**



**Map Maker - Prof. Tayyabali Sayyad**



**Build Your Web - Prof. Nilesh Ghavate**

# MUMBAI HACKATHON

Mumbai Hackathon is a two-day event organized to encourage the **creation of open source software**, a gathering where students can collaborate to create problem-solving software and an excellent site for connecting and disseminating solutions among open source enthusiasts. The cherry on top was the option to formulate your own problem statement and select the language to approach it.

On April 9, 2022, the annual Mumbai Hackathon was organized and hosted by Don Bosco Institute of Technology in partnership with FOSS United.

A total of **49** children from schools in Mumbai, Thane, and Navi Mumbai attended the event. The total winning prize for the competition was **Rs.1,00,000** , which was sponsored by the **ERPNext Open Source foundation**.

Mumbai Hackathon 2022 Winners:

Category	Project developed	Team Members
Winner	SheduleX(Genetic algorithm based timetable generator)	Tirth Shailesh Thoria Rushil Sanjay Shah Krupal Vinod Vora Vivek Praful Vadhiya Akash Anil Dhuri
1st Runner Up	Khansama.app(Recipes UI that keeps your sanity!)	Kaustubh Maske Patil
2nd Runner Up	Ashtagraha(Educational game for children to learn about planets)	Santo Sunny Hitesh Sharma Sahil Bane Malaika Monterio Naman Chouhan



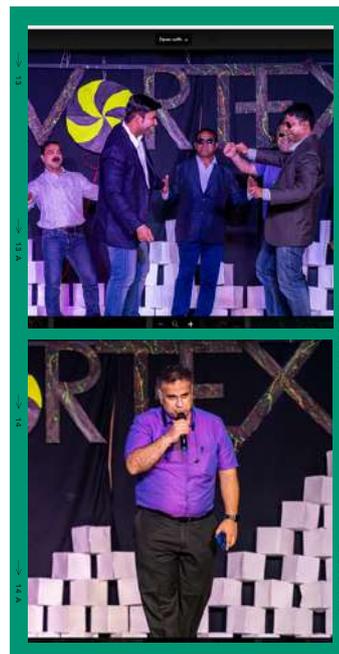
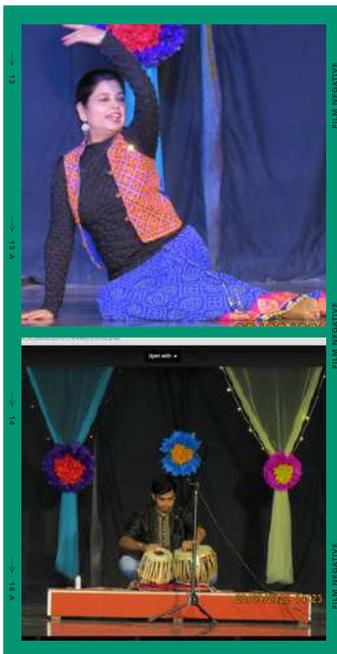
# DEPARTMENTAL DAYS

At DBIT, Department Days is an interdepartmental event when each department honors its accomplishments through the organization of various cultural events and felicitation ceremonies. The faculties of the respective department congratulate students for their accomplishments that they have made over the academic year.



**HEISENBUG (IT)**

**SYNERGY (EXTC)**



**ALL-GO-RYTHM (COMPS)**

**VORTEX (MECH)**

# DBCL LEADERSHIP CAMP 2021

The leadership programme held on the days 12th to 14th December, 2021 at Karjat shed light upon the social issue of **Substance abuse** and also **Environmental issues** to make DBCL a clean and green campus. They magnified the importance of these topics during this Leadership camp.

The main aim of this program was to provide effective solutions.

Harmful effects and recovery methods were not only illustrated with examples but also theoretically briefed to help one another understand better.

The measures for substance abuse drawn out through discussion were:

- **CCTV cameras at the basketball court** - The installation of CCTV cameras can be effective to keep under observation the teenagers and adolescents of our campus to prevent the use of such substances.
- **Parent Professor Conference** - Addressing the issue and making parents and professors aware of substance abuse through sessions will prove to be a beneficial factor for the life of students. It will help the student as well as the teachers to understand the perspective of both sides and take precautionary measures.
- **Student awareness programme** - Activities such as after-school programs, incorporating life-skills training into drug education curricula, helping students become better informed, providing counseling, identifying problem behaviors, etc adds an important impact as well.
- **Positive Peer sponsorship** – To provide them with an optimistic environment which can help them overcome their reluctance and hesitation to create a better life for themselves, making this possible through peers of their age.

The remedies for environmental protection were:

- **Segregation at source** - Bifurcating the dry and wet waste at source by providing different bins for each. Also a separate bin for plastic and Tetra packs should be made available which can later be sent to NGOs for proper disposal.
- **Saplings as gifts** - Parenting plants, indeed means parenting oxygen, which in turn benefits us to live in a healthy area. Thus, this is another creative method to present one another saplings.
- **Design Thinking Competition** - To give students an opportunity to come up with effective and creative models to sustain the environment. Therefore, model building and materializing it will influence them to compete on a wider scale for the betterment of the society.
- **Plant stalls** - To provide stalls during events such as Hysteria, Colosseum, etc in order to encourage students to invest in the environment.

These measures would help to build a **strong foundation** for the future of DBCL. This will help the young minds be aware of the current problems and encourage them to find solutions.



# HYSTERIA - CULTURAL FEST OF DBCL

Hysteria is unmatched as the annual inter-collegiate cultural festival of DBCL because it achieves the goal of including every single category of competitions and rocketing each skill set. Be it the rhythms of music, the elegant moves of dancing, or the verbal impact of literary events to the skies. This year's theme was '**Renaissance**'.

This cultural festival offers equally significant venues and chances to newbies, those looking to grow, and those who take part only out of curiosity. Hysteria surely embraces everything when it comes to the sphere of cultural events and is constantly sought after to attain positive achievement in any student's life!

## Students in Hysteria - 2022 Management Team From DBIT

Position/Domain	Students' Names
Head Coordinators	Haramal Liddar Siddhartha Sahu Adonia Sequeira
Assistant Coordinator	Vidhu Gupta
Performing Arts Head	Nirmiti Chutke
Literary Arts Head	S. Vendra Sasha Rebello
Web Development Head	Tanmay Salunke Vaishnavi Ransubhe
Prizing & Points Head	Varad Kadam
Sports Head	Sahil Yelgonda
Coverage/Photography Head	Glorian Mariyapnoor

Position/Domain	Students' Names
Athletics Head	Noel Jomichan
Gaming Head	Kartik Gowda Kevin Geejo
Mega/Fun Events Head	Nitin Kak
Hospitality Head	Simar Kaur
Security and Logistics Head	Pranav Yadav Noel Fernandes
Technical Head	Tushar Padhy



The faculty and the various student committees of DBIT host 'Colosseum', the annual technical festival of the Don Bosco Institute of Technology. Over the course of two days, the committees plan a variety of events in addition to numerous other social projects. Colosseum is renowned for hosting a variety of events like competitions, exhibits, conferences, and seminars along with enjoyable activities for students across the entire campus. This year's colosseum took place on 5th & 6th April, 2022 and theme was '**Into the Metaverse**'.

The various workshops, competitions, talks, exhibitions and fun & mega events conducted are:

Domain	Conducted events	Speaker/Instructor/Conducted By
Workshops	Arch Linux	Mr. Raghu Kamat
	Basic Finance and Technical Analysis of Stocks	Dr. Pruthviraj Desai
	All About Manufacturing	Madgears Motorsport Club
	Showdown of Boats	Mr. Nitin Kak
Competitions	Data Treasure Hunt	Acm
	Dream It, Build It	Madgears Motorsport Club
	Meta Quiz	Core
	Stock Market Simulation	Ecell
	Technical Paper Presentation	Physics club & Domain
	Vocal For Token	Core
Talks	Convergence	Dr. Siddharth Warriier
		Harsh Verma
		IPS Amit Lodha
	Technical Talks	Step Into Metaverse : Mr. Pankaj Mehta
		PNT Robotics: Mr. Ashish Patil
		Supply Chain Management: Mr. Navin Manaswi
	HOF	Mr. Makarand Deshpande
Mr. Rohan Shankar		

Domain	Conducted events
Exhibitions	Auto Expo
Fun & Mega	Buzzwire
	Bubble Soccer
	Giant Size Snakes & Ladders
	FIFA
	Footvolley
	Physics Escape Room
	Valorant



# TEKNACK

Teknack is one of the amazing battlefields provided by **ACM** for the students of not just DBIT but also of other colleges to boost up their creative skills and pump up their technical skills by amalgamating with newer ideas and facts to build up games that give the players an experience that would last with them forever.

Total Registrations : **112**

Total Developers : **39**

One of the best ways to carve some good ideas into minds, especially of the young, is through a game and keeping this in mind, Teknack has produced some value enhancing games that give the player a chill down the spine.

The event consisted of 3 juries **Dheeraj James, Sean D’cruz and Rahul Pudurkar** and the award categories are as follows:

Category	Criteria	Winner
Best Game UI	Awarded to the game with the best overall ui, consistent interface and an environment that is appealing to the end user.	Sky Gliders
Best Gameplay	Awarded to the game with least glitches, smooth gameplay and animations, fluid navigation between scenes and button clicks, proper gameplay mechanics and controls and overall execution.	Dawn of Survival
Best Game Concept	Awarded to the game with the best concept which is unique but at the same time should be designed and planned well with best execution.	Rescuebud
People’s choice	Winner to this award is chosen by the audience. This award is decided by a 50-50 rule. 50% downloads on play store and 50% likes on instagram.	Perilous Ways



# INNOVEX 2021-22

Innovex is a **project exhibition** and interdepartmental competition wherein the BE students from all four departments exhibit and demonstrate the projects developed by them under the guidance of respective faculty members.

The Major objective of this exhibition is to provide a platform and unleash the potential of the students by showcasing their innovative projects as Industry Defined Problem or User Defined Problem.

The winners for innovex 2021-2022 in each department are as follows:

Dept.	Total No. of Projects	Position	Project Topic
COMPS	26	1st	CRNET Customer Conversion Rate Network
		2nd	DREAM-Diabetic Retinopathy Analysis using Machine learning
		3rd	Proct-Xam - AI Based Proctoring
IT	25	1st	Reconnaissance using Deep Reinforcement Learning
		2nd	Traffic Sign Recognition Using Deep Learning
		3rd	Trading Strategy Analyzer
EXTC	19	1st	Low Cost Portable Digital Storage Oscilloscope
		2nd	Design & Analysis of a Compact Metasurface Filter & Design & Analysis of a Compact Metasurface Based Phase-Shifter
		3rd	Smart Voting Machine using FPGA
MECH	73	1st	Design & Fabrication of Floating Garbage Collection System
		2nd	Design, Fabrication & Testing of a Smart Mini Incinerator
		3rd	3D Printed Hand Cast Using Photogrammetry
		Consolation	Design of Passive Exoskeleton to Assist Overhead Tasks
		Consolation	Solar Panel with Sun Position Tracking & Automatic Solar Cleaning
		Consolation	Road Safety for Two-Wheeler



# SPORTS ACTIVITIES ORGANIZED BY THE INSTITUTE DEPARTMENTAL TRIADS

Departmental Triads is the Inter-Department Shield Competition where four departments engage in cultural and sports events to win the Department Shield. Students from FE, SE, TE, BE participate in the various events and are given points accordingly.

The main objectives of the Departmental Triads were:

- To help students to get the college exposure that is required for their holistic development
- To help students to come out of their shells and try out new activities
- To increase students' engagement with the management, faculties and the student council.

This year the Department Triads was conducted between 24th January 2022 to 31st January 2022. It included events like **Don Bosco Premier League, Don Bosco Cricket League, Chess, BGMI, Tug of War and Treasure Hunt.**

This year, with the efforts of all the students and our faculty support, the Computer Department successfully bagged the Departmental Triads trophy.





Name of the event / activity	Name of the department
Chess	DBCL (Hysteria)
Housie	DBCL (Hysteria)
CODM	DBCL (Hysteria)
Valorent	DBCL (Hysteria)
Housie	DBIT
BGMI	DBIT
Don Bosco Youth Cup (Football)	DBCL
Don Bosco Premier league	DBIT

INTER COLLEGE TOURNAMENT	
Name of the event / activity	Held in
Football	K.J. Somaiya
Cricket	K.J. Somaiya
Volleyball (Boys and Girls )	K.J. Somaiya
Basketball (Boys and Girls )	K.J. Somaiya
Table Tennis (Singles and Doubles )	K.J. Somaiya

DEPARTMENTAL TRIADS	
Name of the event / activity	Name of the department
Cricket	DBIT
Chess	DBIT
Tug of war	DBIT

# **DON BOSCO PREMIERE LEAGUE (DBPL)**

The most anticipated sporting event of the year Don Bosco premier league which is an football tournament took place in the month of January. The event was held from 20th Jan to 31st Jan. For this event, more than 100 students participated. Students had two options in this tournament as they can be a Player and manager. For the students who are not interested in playing and were more inclined towards management, they had the option to manage the entire team. The event had 12 teams participating in it.

The objective of the tournament was to get all the students from Don Bosco institute to participate and to make a friendly environment between them as the teams were formed randomly so each teams were consist of students from every year. The finale took place on 31st of January 2022 which was Don Bosco day.



# WOMEN'S DAY EVENT

The most anticipated sporting event of the year Don Bosco premier league which is an football tournament took place in the month of January. The event was held from 20th Jan to 31st Jan. For this event, more than 100 students participated. Students had two options in this tournament as they can be a Player and manager. For the students who are not interested in playing and were more inclined towards management, they had the option to manage the entire team. The event had 12 teams participating in it.

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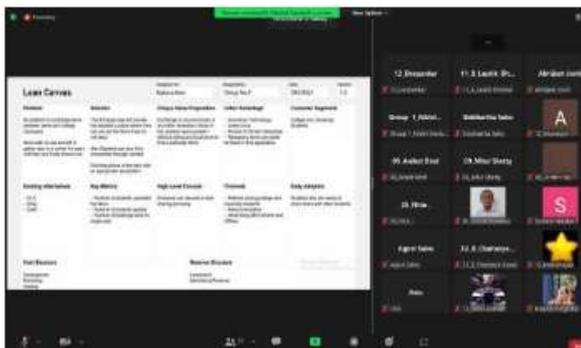
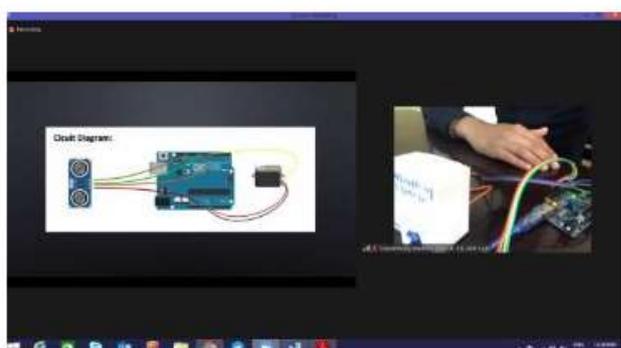


# MAKE-A-THON

Make-A-Thon is an event organized by the Entrepreneurship Cell (E-Cell), headed by Dr. Pradeepkumar Suryawanshi, where students from various departments at the DBCL level to collaborate for a limited time (2-3 months) to ideate, create & deliver solutions to various challenges & problems, either of their interest or from the database of problems provided by the Make-a-thon organizers. Event kick-starts with challenges being selected/proposed to participants, for which they have to come up with an innovative solution and develop a prototype within 2-3 months of Ideation. Solutions can be based on hardware and software projects and are refined based on feedback from faculty and other industry experts. Event concludes with judging and prize distribution/incubation.

It was successfully organized virtual state level flagship programme of DBIT Mumbai in Startup and Entrepreneurship (Software & Hardware Edition), in June-August 2021.

Team	Position	Cash Prize Won
Briana Rajan (DBIT)	1	INR 9,000
Aishwarya Nathani (Thadomal Shahani Engineering College)	2	INR 6,000
Atharva Joshi (DBIT)	3	INR 3,000



# THREE TRACK PROGRAM AY 2021-22

The BSH (FE) department through its objective had proposed Wellness VAC (Value Added Course) with the intention of the overall development of the students. To enhance the aspirational and wellness quotient of every student through implementation of Institutes' 3 track program where the student will be exposed to diversified technical & cultural sessions, sporting events & human values.

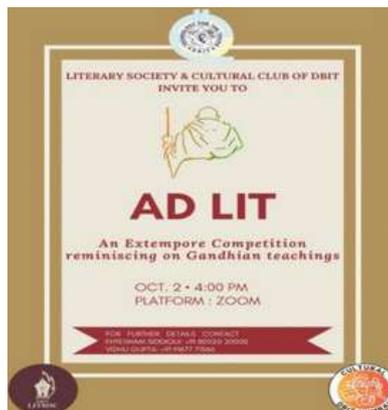
In SEM 1 under a three track program the following activities were conducted by Literary club and Math Club.

During the FE student orientation Math club had conducted the calculator workshop.

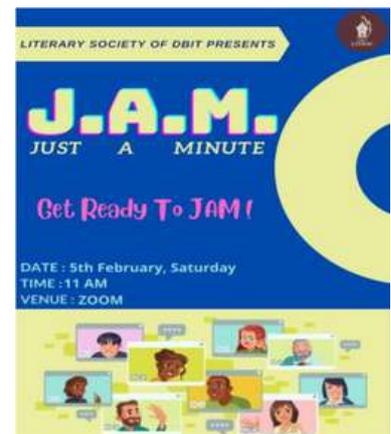
The events conducted by Literary club are as follow:



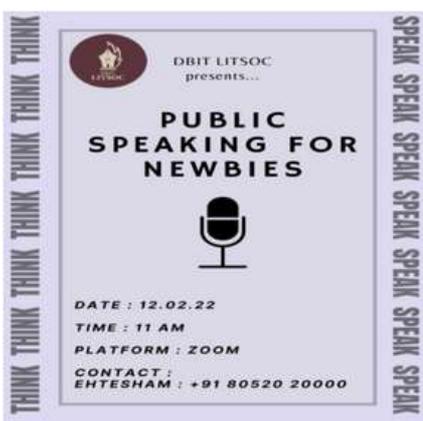
Lit-Trail Poster



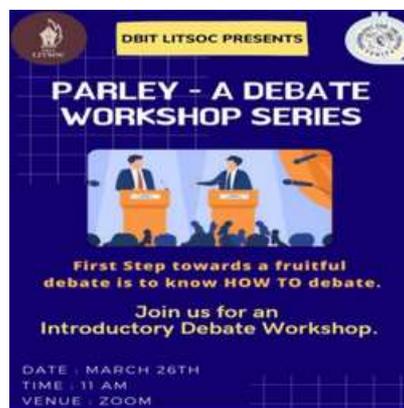
Ad Lit Poster



J.A.M. Poster



Public Speaking for Newbies Poster



Parley Poster



Comm-Peer Poster

# VALUE ADDED COURSE 2021-22

In Sem 2 under the 3 track program Value added course “Wellness – The First Choice” was conducted.

Through the recurring lectures, the BSH department aimed to complement the academic syllabus with extremely practical knowledge that can equip students with-skill sets widely sought by the Industry.

The following lectures were organized by the BSH department for the Wellness course:

Wellness – The First Choice - Value Added Course	
FacultyName	Topic Name
Fr. McEnore Lopes , sdb	Don Bosco Way FE Special Program Out door activity
Dr. Prasanna Nambiar	Ethics inTechnology
Prof. Kartiki Bhave	Diet & Nutrition
Prof. PratibhaDumane	Future Fit
Dr. Revathy S.	Time Management
Prof. Pooja Gupta	Yoga and Meditation
Prof. Gejo	Team Building
Prof. Royal D.( NSS Co ordinator)	NSS Youth Adventure and being withnature
Prof. Manisha S. , Prof. Satyanarayan N., Prof. Pallvi M. & Dr.Revathy S.	Problem solving



# FACULTY EXCHANGE PROGRAMME

## 2021-2022

**23 March 2022**

As a faculty exchange programme undertaken by the Principal of Jawhar College and the Principal of Don Bosco Institute of Technology, signed Memorandum of Understanding was handed over to the Principal of the Jawhar college Dr M. R. Meshram. The Dept. Of English organized guest lecture under Faculty Exchange Programme with Don Bosco Institute of Technology, Kurla Mumbai.

Prof. Sachin Sugave delivered lecture on Communication Skills and the importance of Communication Skills to the students. Prof. Satyanarayana too delivered lectures on Science subjects. Guest lecture under the programme was organized in two sessions for Maths and Chemistry. The programme was coordinated by Prof. Royal D'Souza from Don Bosco Institute of Technology and Prof. Shailesh Bagdane from Jawhar College.





# HALL OF ACHIEVEMENTS

# MEMORANDUM OF UNDERSTANDING

The institute signed several MoUs to collaborate with renowned institutes and organizations for enhancing faculty and student skills and knowledge. Some of the notable ones signed during 2021-22 are as follows:

Sr No.	Collaborated Agency Name	Date of MOU / Agreement Signed on	Type of Collaboration
1	Radiojitter concepts Lab LLP	23rd Feb, 2019	Corporate/Industry Association
2	Health Wheel Pvt Ltd	23rd May, 2019	Corporate/Industry Association
3	Sequel Strings	15th June, 2019	Corporate/Industry Association
4	Shri Vithal Education and Research Institute's College of Engineering	23rd May, 2019	Educational Institute
5	IROBOKiD Neelkanth Business Park	13th Nov, 2019	Corporate/Industry Association
6	E&ICT Academy, IIT Guwahati	28th Nov, 2019	Educational Institute
7	QDnet Technologies	5th Dec, 2017	Corporate/Industry Association
8	Lunghwa University of Science and Technology	7th Nov, 2018	Educational Institute
9	Fu Jen Catholic University	3rd Nov, 2018	Educational Institute
10	Larson and Toubro Limited	22nd July, 2021	Educational Institute
11	National Center for Quality Management	6th Dec, 2021	Non - Govt Agency
12	Navayuvak Entrepreneurs	11th Sept, 2021	Corporate/Industry Association
13	Tele Networks Technologies Ltd.	25th Feb, 2022	Corporate/Industry Association
14	Thane Small Scale Industries Association, Thane	21st Feb, 2022	Corporate/Industry Association
15	Chamber of Small Industry Association, Thane	21st Feb, 2022	Corporate/Industry Association
16	Sardar Patel Technology Business Incubator	4th Dec, 2021	Educational Institute
17	National Council for Quality Management	6th Dec, 2022	Corporate/Industry Association
18	Gokhale Education Society's- Arts, Commerce and Science College, Jawhar	1st Feb, 2022	Educational Institute

# FACULTY ACHIEVEMENTS

## Appointment as Experts, Panelists and Reviewers

Name of faculty	Achievement Details
<b>Computer Engineering</b>	
Dr. Phiroj Shaikh	<ul style="list-style-type: none"> <li>• Evaluated PhD Thesis of research scholar from SRK University, Bhopal (MP)</li> <li>• Actively involved in institutional policy &amp; guidelines making for NBA and NIRF.</li> </ul>
Dr. Amiya Tripathy	Technical Program Committee member at 4th International Conference on Big Data Engineering, May 26-28, 2022 in Beijing, China.
Prof. Sana Shaikh	Written book on "Introduction to DBMS: Designing and Implementing Databases from Scratch for Absolute Beginners" published by BPB Publication.
Prof. Dipti Jadhav	3 Innovative projects Idea submitted to YUKTI National Innovation Repository.
<b>Electronics and Telecommunication</b>	
Prof. Pratibha Dumane	Delivered 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.
Prof. 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.

## Appointment as Experts, Panelists and Reviewers

**Name of faculty**

**Achievement Details**

### Electronics and Telecommunication

Prof. Freda Carvalho

- 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.
- Mrs. 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.

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.
- Delivered a talk on “Overview of Memory and Storage Devices” at Fr. C. Rodrigues Institute of Technology, Vashi, Navi Mumbai in September 2021.
- Was invited to deliver 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.

### Mechanical Engineering

Prof. Johnson  
Varghese

Delivered Guest lecture on “Applications of Mechanical bearings and Selection” at Padre Conceicao College Engineering, Verna, Goa on 23rd Sept 2021.

## Paper Publication and Presentation

Name of faculty	Achievement Details
<b>Computer Engineering</b>	
Dr. Amiya Tripathy	Jointly published, “Cryptanalysis of Near Field Communication Based Authentication Protocol for Mobile Payment System”, Wireless Personal Communications, 2021, “Predictive Analytics of User Cognitive Styles in Online Shopping”, IJCIS, 2022 & “A Blockchain-Based Verification System for Academic Certificates”, 2021 ICSCAN & “Campus Safety and Hygiene Detection System using Computer Vision”, 2021 for ICAC3
Prof. Sejal Chopra	Jointly published, “FallStop-A deep learning approach to real time fall detection and monitoring of vital parameters”, 2021 IEEE India Council International Subsections Conference (INDISCON)
Prof. Sana Shaikh	Jointly published, “TradeZilla Using Algorithmic Trading”& "Geographical Crime Rate Prediction System", 2021 IEEE India Council International Subsections Conference (INDISCON)
Prof. Dipti Jadhav	Jointly published, “NAYAN-DRISHTI: A Revolutionary Navigation/Visual Aid for the Visually Impaired”, ICT Analysis and Applications, 2021
<b>Information Technology</b>	
Prof. Janhavi Baikerikar, Prof. Nilesh Ghavate, Prof. Vaishali Kavathekar	Smart Door Locking Mechanism INTERNATIONAL CONFERENCE ON NASCENT TECHNOLOGIES IN THE ENGINEERING FIELD (ICNTE)
Prof. Prasad Padalkar	IoT based Water Pollution Reporting System 2021 2ND GLOBAL CONFERENCE FOR ADVANCEMENT IN TECHNOLOGY (GCAT)

## Paper Publication and Presentation

**Name of faculty**

**Achievement Details**

### Electronics and Telecommunication

Dr Sudhakar Mande

Jointly published “A 4-Bit 4GS/s Differential Current Steering DAC for 16-bit PAM Transmitter in 45-nm CMOS Technology,” International Journal of Applied Nanoscience. Jointly published “A Novel Encoder Architecture for 8-bit Flash ADC”, 2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON), Jointly published “Design of Ultra Low Noise High Precision Bandgap Voltage Reference”, 2021 International Conference on Smart Generation Computing, Communication and Networking (SMART GENCON).

Prof. Pratibha Dumane

Jointly presented a paper titled “Fuzzy Based Sustainable Development Assessment for South Asian Countries” in the Conference on Technologies for Future Cities (CTFC 2021) organized by Pillai College of Engineering, New Panvel, on 8-9 October 2021.

### Mechanical Engineering

Dr. Pradeepkumar  
Suryawanshi

P. Suryawanshi and A. Gupta presented, A mass-spring model for Physically realistic haptic rendering of deformable objects,”in ICHVR-2021 and Published in 2022 International Symposium on Electrical, Electronics and Information Engineering(ISEEIE).A novel mass-spring model for simulating Deformable objects,” Accepted for Publication in Journal of Mechanics of Materials and Structures ,Jun-2022

## Paper Publication and Presentation

Name of faculty	Achievement Details
Prof. Shreeprasad Manohar	<p>Review of Materials suitable for Tissue-engineered bone scaffolds”, at 2nd International Conference on Emerging Global Trends in Engineering and Technology, April 21-23, 2022, ADBU, Assam, India. Recent Advances in Manufacturing Processes and Systems. Lecture Notes in Mechanical Engineering. Jan 2022, pp 869-883, Springer, Singapore.</p> <p>Developing a 3D printed patient-specific cast for a fractured wrist from CT Scan Data, International Journal of Mechanical and Production Engineering Research And Development (IJMPERD)ISSN(P):2249–6890;ISSN€:2249–8001. Review of enhancement of polymer for Mechanical extrusion process by Combining with filler material, 2nd International Conference on Recent Advances in Manufacturing (RAM-2021), Jun.10-12, 2021, SVNIT, Surat, Gujarat, India</p>
Dr. Shashikant Pawar	<p>Published a paper on “Design and Fabrication of Floating Garbage Collection System” at International Journal of Advances in Engineering and Management(IJAEM) Volume4, Issue 6 June 2022</p>
Prof. Sudhakar Ambhore	<p>“Solar Panel with Sun Position Tracking and Automatic Cleaning System” at International Journal for Research in Applied Science &amp; Engineering Technology Journal.</p> <p>Effect of Core Geometry, Orientation, and Support on the Core Shifting Mold” at International Journal for Research in Applied Science Engineering Technology Journal</p>
Prof. Cleto Pereira	<p>Published a paper on “Passive Cooling System to Provide Thermal Comfort” at International Journal for Research in Applied Science &amp; Engineering Technology Journal.</p>

**Paper Publication and Presentation**

<b>Name of faculty</b>	<b>Achievement Details</b>
<b>Basic Science And Humanities</b>	
Dr. Vinod Gokarna	Influence of molecular weight of poly (methyl methacrylate) on its properties with poly (vinyl chloride); Under Review.
Prof. Sameer Ulhas Hadkar	Jointly published-“Facile Synthesis and Morphology Dependent Photocatalytic Activity of ZnO Nanostructures”- Macromolecular, 2021 - Wiley Online Library. Jointly published-”Morphological and Thermal Behavior of Monomer Dispersed Liquid Crystal”- Springer- Cited by 2. Jointly Published “Effect of polymer concentration on optical and electrical properties of liquid crystals for photonic applications”- Materials Today, 2022 - Elsevier - Cited by 1. Jointly published- “Wavelength and temperature dependent refractive index of polymer dispersed nematic liquid crystal”-2022 First, 2022 - ieeexplore.ieee.org.
Dr. Revathy Sundararajan	Revathy Sundararajan and Pranjalee Kurundkar [2021] Testing Mathematical Concepts of Undergraduate Engineering Students: Some Ideas for stimulating Higher Order thinking Skills Proceedings of the 9th National Conference (Bhopal, Dec 22 to 24, 2020) on Mathematical Education, NCERT

**Research / Ph.D., Patent and Consultancy**

**Name of faculty**

**Achievement Details**

**Mechanical Engineering**

Prof. Shreeprasad  
Manohar

Pursuing Ph.D. from Assam Don Bosco University in  
"Biomedical application of 3D Printing"

Prof. Buddhipriy  
Chavan

Pursuing Ph.D. from Indian Institute of Technology, Mumbai

**Basic Science And Humanities**

Dr. Vinod Gokarna

Patent: Pharmaceutical Composition for bioenhancement of  
active agents.(Indian Patent no. 323787)

## STUDENT ACHIEVEMENTS

Student Name	Event/Project/Sports	Achievement
<b>Technical Achievements</b>		
Sahil Shelke Teknack	ACM DBIT Tech Team	Best Game Concept
Alston Fernandes	ACM DBIT Tech Team Course- New Framework	Certificate
Rakshita Khantwal	Technical Writing Competition conducted by IETE-DBIT-ISF on behalf of IETE	Second Prize
Sarika Galphade	Technical Writing Competition conducted by IETE-DBIT-ISF on behalf of IETE	Third Prize
Adarsh Rao	Technical Writing Competition conducted by IETE-DBIT-ISF on behalf of IETE	Consolation Prize
Pratham Milind Amare, Pratham Pravin Koturwar, Bhagyesh Shubhas Manjrekar	Technical Treasure Hunt Competition organized under Oscillations 2022.	First Prize
Rohit Radhashayam Gupta, Kshitij Bare, Nitish Chavan	Technical Treasure Hunt Competition organized under Oscillations 2022.	Second Prize
Satyam Shukla, Jay Dulange, Leroy Rodrigues	Technical Treasure Hunt Competition organized under Oscillations 2022.	Third Prize

Student Name	Event/Project/Sports	Achievement
<b>Technical Achievements</b>		
Team Name: Puzzles.exe Team Members: Kshitij Rao, Abhijeet Ringe, Amish Thekke Parambil, Tanmay Salunkhe, Rutvij Patil, Saloni Dhotre	Smart India Hackathon (September 2022)	First Prize In The Problem statement 'Software for system hardware inventory' (GR918)
Team Name: Node Controllers Team Members: Alston Fernandes, Shubham Talawadekar, Aniket Parate, Likla Sinha, Manish Shingre, Rhea Dsouza	Smart India Hackathon (September 2022)	Participated in the grand finale
<b>Cultural Achievements</b>		
Lavena Babu	TAAL SE TAAL (SOLO DANCING-REGIONAL)	Third Prize
Drama Club: Praestantia	K.J.Somaiya 'Symphony 2022'	Second Prize
<b>Sports Achievements</b>		
Pratik Daga	Table Tennis Doubles	First Prize



# **DBIT AFFAIRS**

# IQAC REPORT 2021-22

During AY 2021-2022 **Internal Quality Assurance Cell (IQAC)** has taken various initiatives to improve the overall quality of teaching learning processes. Faculty Development programme on NBA accreditation programme was conducted **May 24, 2022** which was attended by **44 faculty members**.

Following topics were discussed during the FDP.

- Bloom's Taxonomy for Enhancing Quality of Teaching Learning
- How to prepare CO-PO Matrix
- How to calculate CO and PO attainment

Further, IQAC has taken an initiative to restructure the various committees for effective functionality. IQAC has also conducted various **faculty development programme** on various topics like:

- Professional Ethics by Dr. Devyani Rozario
- Technologies for sustainable development by. Mr. Ashok Kalbag
- Seven Tools of Quality by Mr. Santosh Khandagle.

In addition to this IQAC has also taken an initiative to prepare and publish a technical paper based on Final Year Project Work. The outcome of this initiative is each department has come out with a technical magazine as follows:

- **PubTech** – Department of Electronics and Telecommunication
- **Compendium** – Department of Mechanical Engineering
- **Tech IT** - Department of Information Technology

**IQAC has successfully submitted AQAR for AY 2020-21 and AY 2019-20.**



# ACADEMIC ADVISORY COUNCIL

Sr No	Department	Name Of AAC Members / Faculty Members	Name Of Organisation with Designation
1	Mechanical Engineering	Dr. S. Krishnamoorthy	Mentor (Mechanical Engineering Dept) Advisor, DBIT
2		Mr Prashant Chouthkanthiwar	Associate Vice President at Godrej & Boyce
3		Prof. Bhalchandra Puranik	Professor, IIT Bombay
4		Mr. Shreyas Bakshi	Innovation Wor(k)shipper, Leader, Strategist, Coach, Advisor, Architect, Facilitator
5	Electronics and Telcom.	Dr. Nitin Kale	Chief Technology Officer, Nanosniff Technology Pvt. Ltd, Mumbai
6		Dr. NandKumar R. Gilke	Registrar, Somaiya Vidyavihar University
7		Mr. Sumitkumar Dubey	Senior Engineer, Qualcomm-RF Software
8		Ms. Dhanshree Rane	Network Planning Engineer, Tata Communications
9		Mr. Abhay Phansikar	Corporate Strategy & Technology, Consultant, Department Mentor
10		Mr. Jason Fernandes	Alumni representative (Radar Algorithm Developer, Autonomous Mobility continental, Bavaria, Germany)

<b>Sr No</b>	<b>Department</b>	<b>Name Of AAC Members / Faculty Members</b>	<b>Name Of Organisation with Designation</b>
11	Computer Engineering	Mr. AtulGandre,	Global Technology Head IBM
12		Mr. SujeetkumarSinha	Sr. Technical Analyst Colgate Global Business Services Pvt. Ltd.
13		Mr. Thomas Lobo, Founder	CEO at Roots2Wings Training Solutions
14		Prof. Surya S. Durbha	Professor at CSRE, Indian Institute of Technology Bombay (IITB)
15		Mr. Reyner D'souza	Digital Business Integration Consultant, Accenture
16	Information Technology	Mr. Sobin George	Lead Software Developer atMorgan Stanley, Bengaluru
17		George Joseph	Associate Manager, Accenture, Bangalore
18		Ms. Reshma Xavier	Consultant, Deloitte

## FACULTY DEVELOPMENT PROGRAMME

Sr.No.	Topic	Resource Person
1	Standardisation of online teaching & Objective setting. Preparation for new admissions	Dr.Prasanna Nambiar
2	Discussion on role of various committees in improving NAAC, NBA and NIRF scores	Dr. Mande & Dr. P. Nambiar
3	The New Education Policy, NEP this activity was done jointly with Don Bosco College	Dr. Gopal, Director of DY Patil Management Institute
4	Presentation on understanding NIRF ranking Address by Executive Director	Dr.Phiroj Shaikh
5	Sensor Technology	Department of Electronics and Telecommunication Engineering, Xavier Institute of Engineering, Mahim, Mumbai.
6	Incorporating Universal Human Values in Education	AICTE initiative
7	AI & Data Science - The Future of Tomorrow	Dept. of Comp. Engineering, Rajiv Gandhi Institute of Technology, Mumbai
8	Integrated Project Based Learning	Dr.S.Krishnamoorthy
9	Faculty Development Program on Financial Literacy	Mr. T. M. Sayyad
10	Working Harmoniously for Institution Building	Rev. Fr. Godfrey D'Sa, Founder-Director, Prafula, Centre for Psychological Wellness



# ALUMNI ENGAGEMENT

Event	Organiser	Resource person
Alumni Exit Interview	Dr. Amiya Kumar Tripathy, Ms. Sana Shaikh and Ms. Ditty Varghese	Mr. Wayne Fernandes, Ms. Jaison Jeslyn, Ms. Cynthia Mascarenhas, Mr. Taha Kazi (graduated students of the 2021 batch)
<b>TALKS</b>		
Sr. No.	Topic	Alumnus Speaker
1	Use of CNN for Classification with Google Colab	Mr. Abhiram Pillai (Batch 2021)
2	The Data Journey from Source to Visualisation	Ms. Tanuja Mehra, (Batch 2019), Incubyte Datatech
3	Cyber Security	Ms. Sanjana Ingale (Batch 2017), Consultant - Cyber & Strategic Risk, Deloitte India (Offices of the US)
4	Product Development and Engineering Design as a Career	Mr. Gaurav Pednekar, (Alumnus - 2015 Batch), Design Engineer Consultant, Capgemini India Tech. Services
5	An Insight into Life after DBIT	Ms. Lakshmi Prasad (Alumnus - 2017 Batch) Scientist, Liquid Propulsion Systems Centre
6	Insights into Life @ DBIT	Ms. Minita Joshee (Alumnus - 2021 Batch), Assistant System Engineer - Trainee at Tata Consultancy Services
7	Insights on being a Mechanical Engineer	Mr. Thomas Tom- Trail Engineering II- Body Validation Engineer at Rivian, USA – DBIT Alumnus Batch of 2015.

# PARENTS TEACHER MEET

FIRST YEAR	
Class	Points of discussion
Div A	<ul style="list-style-type: none"> <li>&gt; Ward's overall performance</li> <li>&gt; IA result</li> <li>&gt; Attendance for that month</li> <li>&gt; Parents requested for an offline meeting</li> </ul>
Div B	<ul style="list-style-type: none"> <li>&gt; Parents inquired about practicals</li> <li>&gt; Discussion of IA marks</li> <li>&gt; Guidance for regularly attending online lectures.</li> </ul>
Div C	<ul style="list-style-type: none"> <li>&gt; IA results</li> <li>&gt; Student attendance</li> <li>&gt; Explaining the pattern of M.U. papers.</li> </ul>
Department	Points of discussion
Computer Engineering	<ul style="list-style-type: none"> <li>&gt; Displaying ongoing departmental activities</li> <li>&gt; Internship opportunities,</li> <li>&gt; IA-1 results &amp; academic progress</li> <li>&gt; Attendance status.</li> </ul>
Information Technology	<ul style="list-style-type: none"> <li>&gt; Results of IA-1 (Sem-3)</li> <li>&gt; Difficulties in enhancing the quality of teaching-learning process from both ends.</li> </ul>
Electronics & Telecommunication	<ul style="list-style-type: none"> <li>&gt; Student's academic progress</li> <li>&gt; Tips to improve cognitive abilities and communication.</li> </ul>
Mechanical Engineering	<ul style="list-style-type: none"> <li>&gt; IA-1 marks</li> <li>&gt; Class attendance</li> <li>&gt; Any financial difficulties of the students</li> <li>&gt; Q&amp;A session with parents .</li> </ul>

# N.S.S. & OUTREACH ACTIVITY

The National Service Scheme (NSS) unit started in DBIT in the year 2005. Every year 150 students from DBIT are actively involved in NSS activities like health, education, social engineering projects and environment projects. The volunteers of NSS always have an approach towards holistic community development through various levels of direct and indirect interventions in urban and rural areas from Maharashtra. Implementable, Majorable and Sustainable are key indicators for the NSS units to conduct their activities. DBIT NSS unit received an award from NSS cell of Mumbai University as best district level college and program officer in the year 2015-16. The NSS website of Mumbai University and NSS E-Diary application is designed by the NSS volunteers from DBIT. Through NSS activities students are getting experiences of working with the community to solve their problems by giving them technological solutions. The following activities were conducted in the academic year 2021-22



Sr No.	Name of the activity-particular	No of NSS volunteer participated	No. of Beneficiaries, if any
1	Mahad Flood relief	2+NSSPO	200
2	Blood Donation Drive at Kurla Railway Station	10	38
3	Vaccination drive	10	62
4	Sessions attended by Volunteers	4	4
5	Christmas Mela for HIV children	12	100
6	Entrepreneurship training	8	46
7	Utkal school STEM workshop.	4	92
8	3D Printing workshop	4	25
9	Beach clean-up	22	22
10	GIS mapping in campus	43	43
11	Plantation in campus	12	12
12	Disaster Management Workshop	26	71
13	Milind Nagarsurvey And project work	14	300
14	Jawahar College teaching	2	15
15	Waste management Campaign in college	20	700
16	Ecogarden	20	20
17	Women SHGs tall	4	14
18	Composting sale	5	15
19	Tech Fest college	55	1500
20	Hysteria volunteering	52	500
21	Job portal	3	25
22	Muskan project	40	40

# NSS RURAL CAMP 2021-2022

**Dates: - 4th to 10th March 2022**

**Duration: - 06 days**

**Venue: - Walvanda village, Jawhar, Palghar District**

**Number of students: - 50 NSS volunteers ( 15 Girls and 35 Boys).**

On 4th March 2022 at 11:30am Camp Orientation : Detail orientation was given to all the NSS volunteers by Fr. Anaclate D'mello, Fr. Johnson Kshirsagar, Mr. Prakash Wagh, Prof Tayabali ,Mr. Harmik Singh , Mr. Royal Dsouza. From 06-03-2022 to 09-03-2022 Yoga Activities were conducted. On 7th March volunteers taught students basic Grammar and basic Maths and conducted drawing competition in Zilla Parishad. On the last day students conducted Cultural activities.



# COUNSELLING & MENTORING

After the few initial hiccups, the counselling department took up the work with ease and comfort. The important work that the department did in this annual year is working for the mentoring process. Before the meetings with the staff members began, there were meetings and discussions between the counsellors over the mentoring process. There were meetings with all the mentors of each departments and the counsellors where they were the topics discussed were:

- To understand students' aspirations and aptitude
- To follow up on the students' academics and attendance
- To help students identify support systems for their academic progress and mental well-being so that they excel as engineers

On **July 5, 2021** a meeting was called to discuss the plan for 2021-22 and also about having a mentorship manual. On Aug 21, 2021 This meeting was called to finetune the objectives of the mentoring committee. On Aug 31, 2021 This meeting was called to discuss about the documentation of NBA Criterion 9.

**Meeting with Peer Mentors on May 2, 2022-** This meeting was convened with the Campus Minister and the Mentoring Committee members to know from the peer mentors

- (i) their experiences as peer mentors,
- (ii) how they have benefited from this process and
- (iii) their suggestions to improve the process

**Meeting of the mentoring committee on On May 9, 2022-** This meeting was convened to discuss about the document that each Faculty mentor needs to maintain and submit and Obtaining feedback from FE and SE mentees. Then there was Feedback from FE Mentees. June 2021- Feedback from FE mentees were taken and report was submitted to Campus Minister and Principal. Counsellor's session for COMP faculty was held on Sept 28, 2021: Prof. Linda Dhakul conducted a session for the faculty of Computer Engineering Department.

**Team Building and Goal Setting** - session was conducted for SE Comp students On March 30, 2022- Mr. Royal D'Souza conducted a session on Team building and goal setting for the SE Comp students then Feedback from Peer Mentors, FE and SE Mentees .On May 2022 Feedback from FE and SE mentees were taken as well as from SE Peer mentors regarding mentoring.

## **Regular Mentoring done by faculty and peer mentors**

The consolidated reports of the mentoring was done by faculty and peer mentors were submitted to the respective departments, based on the mentoring reports submitted by the mentors- twice per semester.

# KARJAT NATURE TRIP FOR FE STUDENTS

On 22nd July, 2022, the students of First Year engineering were taken for a Nature Trip & Adventure Program to Karjat, Raigad.

Don Bosco has its own **Yuva Sanstha** in Karjat that has been a place for the growth of students in various manners. This year's trip had a theme of "**Youth for Adventure and Being with Nature**".

The objectives of this trip was to help build confidence in students and motivate them to work for their personal growth by dealing with multiple personal matters.

The second objective was to make the students feel one with the ecological environment. Better understanding and greater knowledge was acquired by the students regarding the same and to implement principles of **sustainability** on and off campus.

Several activities were conducted to achieve the said objectives and help mold the students in becoming good leaders.



# STUDENT CHAPTER ACTIVITIES

## ACM DBIT



**Chairperson:** Grejo Joby

**Vice-Chairperson:** Hayden Cordeiro

**Convener:** Prof. Sana Shaikh

**Organized:** Workshops on Web Development, Advanced WebDev, PC Assembly, Arduino. Competitions like COD-IT, Digital Poster Making, Database Linking to Flask and Teknack

## CSI DBIT



**Chairperson:** Vendra Sekar

**Vice-Chairperson:** Suhani Desale

**Convener:** Prof Nilesh Ghavate

**Organized:** Workshops on Photoshop, UI/UX, Linux & PC Assembly, Flask, Ethical Hacking. Competitions like Mumbai Hackathon & Data Treasure Hunt

## IEEE DBIT



**Chairperson:** Ajitha Rajkumar

**Vice-Chairperson:** Ashutosh Rane

**Convener:** Prof. Gejo George

**Organized:** Workshops on WebIntroduction, Micro Bit using Tinkercad, Introduction to CNN and its Use for Image Classification, Considering EMC at Design Stages (MTTS) Symposium On 5G:A catalyst to Digital Revolution & Roboton - Robotics Symposium

## IETE-DBIT-ISF



**Chairperson:** Shubhangi Katariyar

**Vice-Chairperson:** Dhanashree Chilap

**Convener:** Prof. Poonam Chakraborty

**Organized:** 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.

## ISHRAE-DBIT



**Chairperson:** Saurabh Yadav

**Vice-Chairperson:** Tarun Mulani

**Convener:** Prof. Cleta Pereira

**Organized:** Webinar on “HVAC Design changes Amid COVID-19 in Hospitals, “Women in Leadership: Achieving Equal Future”. Organized a workshop on AC Maintenance & Installation. Carried out Industrial visits to Zeco Aircon Ltd., Kurger Ventilation 7 Advantek Air Systems Ltd.

## MADGEARS MOTORSPORTS CLUB



**Chairperson:** Souvik Giri

**Vice-Chairperson:** Bhavika Dongre

**Convener:** Prof. Nilesh Gaware

Organized a workshop on “Fundamentals of Automobiles”. Participated in an e-bike design competition by FMAE and secured the 4th position.

## DOMAIN (MATHS CLUB)



**Chairperson:** Hrishikesh Panigrahi

**Vice-Chairperson:** Raveena Pitale

**Convener:** Dr. Revathy Sundararajan

Conducted calculator workshop for FE students. Conducted peer learning FE and DSE students. Organized a Technical Paper Presentation competition as a part of Colosseum 2022.

## PHYSICS CLUB



**Chairperson:** Saloni Dhotre

**Vice-Chairperson:** Kshitij Rao

**Conveners:** Dr. Vinod Gokarna and Prof. Sameer Hadkar

**Organized:** Conducted Physics Hackathon and a Physics Escape Room as a part of Colosseum 2022. Organized a physics quiz competition as well.

## E-CELL (ENTREPRENEURSHIP CELL)



**Chairperson:** Tanmay Bora

**Convener:** Prof. Kalpita Wagaskar

**Organized:** Conducted the flagship event: Make-A-Thon, an intercollegiate competition that gives rise to the budding entrepreneurs. The objective was to work as a team for a limited time, 2 to 3 months, to ideate, create and deliver solutions to the problems and challenges given to them.



# FROM THE EDITORIAL TEAM

We are extremely proud to present the Annual Report for the academic year 2021-2022.

This academic year, we experienced our first post-lockdown offline semester. In spite of this switch, DBIT has been persistent in maintaining the holistic development of students. I would like to applaud everyone involved in providing an environment for the students to reconnect, learn and grow for a comprehensive development

I want to send my sincere gratitude to the Principal, the Administration, the faculty members and my editorial team for putting great effort into the making of this Annual Report.



**Prof. Sachin Sugave**  
Chief Editor



**Kanishk Aware**  
Editor



**Kevin Geejo**  
Designer



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Editor



**S. Vendra**  
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**Neha Nair**  
Asst. Editor



**Irin Roche**  
Data Compiler

# **THE DON BOSCO ETHOS**

**Truth : Via words and deeds**

**Teamwork : One for the Other**

**Participation : Explore & Learn**

**Belief : Everyone Can**

**The Don Bosco Education believes in the Spirit of Joy, Celebration, Confidence, Familiarity, Friendliness and Freedom. The focal point of the Don Bosco Education is to pervade and integrate the presence of Home, Playground and Classroom. It intends in building Education for a Happy life.**

**The Don Bosco presence is Welcoming, Loving, Motivating and Incarnational. It Teaches Moral Values and Molds Creativity along with being Open to Discovery and Connecting with others.**