DON BOSCO INSTITUTE OF TECHNOLOGY
Department: Computers, IT, EXTC and Mechanical Engineering
Department
Event: INNOVEX 2022 BE Project Exhibition
Date of Event: 13th April 2022
Prize Distribution Ceremony : During Farewell : 31st May 2022
Section: Co-curricular activities- Event - Technical- INNOVEX

INNOVEX 2022 REPORT

The **SIXTH edition** of the **Final year Annual Project Exhibition 'INNOVEX 2022'** presented by the B.E. undergraduate students were conducted in lines of DBIT's vision of producing employable engineers who can ideate and design solutions for problems relevant to both the society and industry. The students and faculty have together worked harder to execute their project even though their semester 7 and start of semester 8 was online. The students faced challenges during semester 8 when there was a sudden switch initiated from online mode to offline mode.

INNOVEX is a platform provided by the institute for the final year students to showcase their year-long effort in their projects and help them in open-ended discussions and deliberations for improving the scope of the project. It also encourages the students to pitch their ideas & solutions in front of the judges from the Industry, Academia, Stakeholders, Parents, Industry Personnel, Alumni etc. As we moved from online to offline mode in semester 8, the project was displayed physically in the DBIT campus. All the eligible projects from each department were displayed for demonstration along with the project posters. Respected Judges of each department evaluated the projects exhibited.

On 13th April, INNOVEX 2022 began with an Inaugural Ceremony at 10 am followed by the BE Projects for EXTC, COMPS and IT Departments exhibited in the Mondini Hall and BE Projects for MECH Department exhibited in the Seminar Hall. A total of 73 projects were exhibited across all departments. (EXTC - 14, COMPS - 20, IT - 18, MECH - 21)

The results were declared in the 2nd week of May 2022 in the respective departments. The prize distribution for the winners of INNOVEX 2022 was done during the BE Farewell of A.Y. 2021-22, held on 31st May 2022.

INNOVEX 2022 was organized under the guidance of DBIT Principal, Dr. Prasanna Nambiar and with the support from the management, Heads of Departments and Project Coordinators of all departments - Ms. Sunantha K. (IT), Ditty V. (COMP), Freda C. (EXTC), Cleta P. & Mahesh R. (MECH).

INNOVEX 2022 INAUGURAL CEREMONY

The INNOVEX 2022 Inaugural Ceremony was organized on 13th April, 2022 in the Mondini Hall at 10 am.

DON BOSCO INSTITUTE OF TECHNOLOGY, MUMBAI

Cordially invites you for

INNOVEX 2022

B.E. PROJECT EXHIBITION

INAUGURAL CEREMONY

DATE: **13TH APRIL, 2022** TIME: **10 AM**
VENUE: **MONDINI HALL**(C WING, 4TH FLOOR)

B.E. Projects of Comp, IT, EXTC will be exhibited in Mondini Hall and
Mech Projects in Seminar Hall(A Wing, 3rd Floor)

The ceremony started with the host introducing the BE Annual Project Exhibition, followed by welcoming the dignitaries on the dais. The event began with the auspicious lighting of the lamp.

Lighting of the Lamp

Fr. Anthony Pinto led the audience through a beautiful prayer, followed by a very encouraging address by Fr. Mario Vaz.

Prayer by Rev. Fr. Anthony Pinto

<u>Address by Rev. Fr. Mario Vaz</u>

The ceremony continued with a welcome note and introduction to INNOVEX by Dr. Prasanna Nambiar, Principal, DBIT. Next we had the felicitation of all the judges present for the inaugural ceremony.

<u>Welcome Address & Introduction to Innovex by Dr. Prasanna Nambiar</u>

Felicitation of Judges

Mr. Sahil Gandhi, Manager at Central Depository Services (India) Limited (ALUMNUS BATCH 2005) was the chief guest for the event. He addressed the gathering and advised the students upon the need of leadership skills, knowledge transfer and the significance to focus on developing the skill sets.

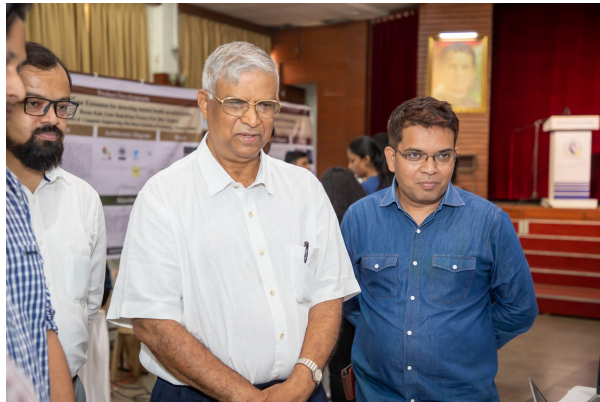Address by Chief Guest, Mr. Sahil Gandhi

Release of Innovex 2022 Brochure

INNOVEX 2022 - Dignitaries, Judges and Project Coordinators

COMPUTER ENGINEERING DEPARTMENT

A total of **20** (out of 26) BE Computer final year projects were shortlisted for INNOVEX 2022 by the department after an internal review. Projects were categorized in 4 different categories under the Computer Engineering department section on the INNOVEX 2022:

i. Research
ii. Emerging Technologies
iii. Product development
iv. Sustainability

There were 2 judges who evaluated projects for Computer Department on 13th April 2022:

- Ms. Nita Khare, Global Lead, Emerging Technologies, Cognitive Business Operations, Technology and Innovations- TCS
- Mr. Atul Gandre, Global Head, Emerging Technologies, Cognitive Business Operations, Technology and Innovations- TCS

The winners for INNOVEX 2022 from Computer Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	CRNET Customer Conversion Rate Network	Dr. Amiya K. Tripathy	Manasi Anantpurkar Hayden Cordeiro Grejo Joby
2	DREAM - Diabetic Retinopathy Analysis using Machine learning	Ms. Dipti Jadhav	Anish Nair Aamod Sawant Priyal Vaz
3	Proct-Xam - AI Based Proctoring	Dr. Phiroj Shaikh	Samuel Monteiro Lav Sharma Rutuja Bhate

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

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

"Prof. D. Sundararajan Award" a special award for the Best implemented project was also evaluated during this occasion.

Projects were categorized into 4 categories as follows:

i. Product development

ii. Emerging Technology

iii. Research

iv. Sustainability

There were 2 judges who evaluated projects for EXTC department on 13th April 2022:

- Mr. Jovin Miranda, Sr. Applications Engineer at Synopsys Inc.
- Dr. Dhananjay Patel, Associate Professor at Vidyalankar Institute of Technology
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The winners for INNOVEX 2022 from EXTC Department are:

Position	Project Name	Name of Students	Name of Project Guide
1	Low Cost Portable Digital Storage Oscilloscope	Joshua Chettiar Nilesh Dharap Atul Kumar Ankit Kumar	Mr. Yogesh Gholap
2 (Tie between two groups)	Design & Analysis of a Compact Metasurface Filter & Design & Analysis of a Compact Metasurface Based Phase-Shifter	Hitesh Badgujar Aman Khan & Sadanand Chauhan Solomon Stephen	Dr. Ashwini Kotrashetti Ms. Freda Carvalho

3	Smart Voting Machine using FPGA	Callistus Pani George Ritik Kumar Vivek Bangera James Kundukulangara	Dr. Sudhakar Mande
Prof. D. Sundararajan Award	Low Cost Portable Digital Storage Oscilloscope	Joshua Chettiar Nilesh Dharap Atul Kumar Ankit Kumar	Mr. Yogesh Gholap

INFORMATION TECHNOLOGY DEPARTMENT

A total of 18 groups, from B.E.(I.T.), have participated in the INNOVEX 2022. Based on the criteria of quality of completed modules and percentage of completion they were evaluated by a set of panel members, resulting in 18 groups being allowed to participate in the Innovex 2022. The judges evaluated the projects by verifying the demonstration uploaded on youtube. Projects were categorized into 4 categories as follows:

i. Artificial Intelligence

ii. Embedded

iii. Research

iv. Sustainability

In the Information Technology Department projects were evaluated by 3 judges, panels were formed as shown below:

Panel 1 : Mr. Satish Sugavanam, Vp, Quinioz, Mumbai

Panel 2 : M. Helen Joseph, Associate Group Manager - SLK and Ms. J. Roseline, Senior Director , Capgemini, Mumbai.

Judges started the understanding of underlined projects through the available youtube links from 1 April, 2021- 10 April, 2021. Final evaluation happened on 13th April by meeting the students and evaluated them based on the rubrics provided to them .

The total number of 68 feedbacks were received appreciating the amount of work done by the students and appreciating them .

The winners of the INNOVEX 2022 - Information Technology Department, announced the winners of the IT department through whats app.

The winners of INNOVEX 2022 from Information Technology Department are:

Rank	Project Title	Project Guide	Student Team
1	Reconnaissance using Deep Reinforcement Learning	Mr. Shivnegi	Sameer Dhole, Pranit Maldikar
2	Traffic Sign Recognition Using Deep Learning	Ms. Aruna K.	Franky John Shruti Chaube Hiral Visaria
3	Trading Strategy analyser	Mr. Tayyabali S.	Manas Purandare Ankit Kanojia Sachin Mishra

MECHANICAL ENGINEERING DEPARTMENT

A total of **21** (out of 35) BE Mechanical final year projects were shortlisted for INNOVEX 2022 by the department after an internal review by panel member and guide. Projects were categorized in 5 categories under the Mechanical Engineering department section on the INNOVEX 2021 website as.

i. Community Welfare

ii. Sustainability

iii. Product development

iv. Research

V. Industry

In the Mechanical Engineering Department projects were evaluated by 2 judges:

- Mr Prashant Chouthkanthiwar, Vice President, Godrej & Boyce Mfg. Co.
- Mr. Mohan Bhide, Retired as Assistant Professor from VJTI with 32 years of teaching experience

The poster and video made by each group was shared with the judges on 11th April, 2021 so that they are aware about the types of projects going to be exhibited prior to the physical evaluation.

The winners for INNOVEX 2022 from Mechanical Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	Design and Fabrication of floating garbage collection system	Dr. Sashikant Pawar	Hrishikesh Kamalakant Raul
			Mihir Anil Gosavi
			Viraj Milind Yevale
			Indrajeet Harendra Yadav
2	Design, Fabrication and Testing of a smart Mini Incinerator	Prof. Johnson Nellisery	Atharva Amit Mohidekar
			Sumit Pravin Mudaliyar
			Atharva Ajay Mohite
			Archit Ambarish Ranadive
3	3D Printing Hand Cast using Photogrammetry	Prof. Shreeprasad Manohar	Mitul Shetty
			Aniket Pradeep Bind
			Jorden Joy Nereparambil
			Alwin Wilson
Consolation	Design of Passive Exoskeleton to Assist Overhead Tasks	Dr. Pradeep Suryavanshi	Bhavesh Bhagchand Wallecha
			Durvesh Dilip Korgaonkar
			Sahil Shrikant Talathi
			Gauri Pramod Patil
Consolation	Solar Panel with Sun position Tracking and Automatic Solar Cleaning	Prof. Sudhakar Ambhore	Steve Aranha
			Rishab Rajendrakumar Agarwal
			Harsh Shreeram Bondre
			Dipesh Ranjeet Gandhi
Consolation	Road Safety For Two-Wheeler	Dr. Prasanna Nambiar	Atharva Joshi
			Abhijeet Joshi
			Chaitanya Kasar
			Laukik Dhumal

Prize Distribution Ceremony during B.E. Farewell 2022

The INNOVEX 2022 Prize distribution ceremony was held during the BE Farewell 2022. The awards were presented from the EXTC Department by Prof. Namita Agarwal, from the Computers Department by Prof. Imran Mirza, from the IT Department by Prof. Prasad Padalkar and From the Mech Department by the HOD, Dr. Pradeep Suryavanshi.

Winners of EXTC Department:

Winners of COMPS Department:

Winners of IT Department:

Winners of Mech Department:

Prepared by:

Ms. Cleta Pereira and Mr. Mahesh Rajwade - Project Coordinators, Mechanical Engineering Department

Ms. Ditty Varghese - Project Coordinator, Computer Engineering Department

Ms. Freda Carvalho - Project Coordinator, EXTC Department

Ms. Sunantha Krishnan - Project Coordinator, IT Department