



**The Bombay Salesian Society's  
Don Bosco Institute of Technology, Mumbai  
(Engineering College)**

**INNOVEX 2024**

**REPORT**

**ON**

**INNOVEX 2024**

**(FINAL YEAR BE PROJECT COMPETITION/EXHIBITION)**

**Date:** April 24,2024

**Time:** 9.00 am to 5.00 pm

**Venue:** Fr. Santino Mondini Hall and IT labs 1, 2,7,4

**Target Audience:** FE, SE, TE students of all the branches

**Faculty Coordinators:** Prof. Shiv Negi, Dean R&D, and Dept. BE Project coordinators:  
Ms. Madhavi S. Pednekar, Ms. Janhavi B. Ms. Cleto P., Mr. Mahesh Rajwade, Ms. Sana  
Shaikh

**Chief Guest:** Mr. Max D'costa, Vice President: Digital Transformation & Product Design  
Quinnox Inc.

**Participants:** 288 (from final year class of all the branches)

**Description:**

Don Bosco Institute of Technology organizes an annual project exhibition and inter-departmental competition 'INNOVEX' wherein the final year students, BE from all the four departments, EXTC, COMP. IT and MECH exhibits and demonstrate the projects developed by them under the guidance of respective faculty members.

**Objective:**

The Major objective of this exhibition is to provide a platform and unleash the potential of the students by showcasing their innovative projects developed in the Final Year either as Industry



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Defined Problem or User Defined Problem It also provides an opportunity for the students to demonstrate their learning experience.

### Outcome:

The outcome of the exhibition is that students can present their topics more skillfully. The students are also encouraged to pitch in their ideas & solutions in front of distinguished guests.

### Invitation Card:

The Bombay Salesian Society's  
**DON BOSCO INSTITUTE OF TECHNOLOGY**  
KURLA, MUMBAI 400 070.

# INNOVEX 2024

## FINAL YEAR PROJECT EXHIBITION

**ELECTRONICS & TELECOMMUNICATIONS ENGINEERING**

**INFORMATION TECHNOLOGY**

**COMPUTER ENGINEERING**

**MECHANICAL ENGINEERING**

**Prizes:** Best 3 projects from each department

1st	₹ 4,000 /-
2nd	₹ 3,000 /-
3rd	₹ 2,000 /-

**SPIRIT OF INNOVATION**

24th April, 2024  
09:00 am onwards  
Fr. Mondini Hall



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The program commenced with a prayer by Rev. Fr. Nelson.





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This was followed by lighting of the lamp.



This was followed by an address by the principal who emphasized the importance of the final year project for innovation and growth.



Some of the esteemed judges who were invited from the industry. Most of these judges had a vast experience in their respective fields



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The origin and journey of Inoovex was introduced by Prof. Cleta

Our esteemed chief guest Mr. Max D'costa, Vice President – Digital Transformation & Product Design Quinnox Inc. He spoke extensively about the importance of requirements gathering in projects and the development cycle.

The Innovex 2024 was open for the judging process thereafter.

**Total No. of Projects Participated: 96**

Computer Engineering: 23

Electronics & Telecommunications Engineering: 18

Information Technology: 22

Mechanical Engineering: 33



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**Judges:**

**Department of Computer Engineering**

- Mr. Joel Joseph Badigar, Consultant - Data Engineer, Hansa Cequity Pvt Ltd (DBIT Alumni).
- Ms. Melisha D'souza, Senior Instructional Designer , LearningMate Solutions Pvt Ltd, (DBIT Alumni).

**Department of Electronics and Telecommunications Engineering**

- Mr. Santoshkumar Thombare, Scientific Officer, BARC
- Mr. Quentin Desouza, CTO Qdnet Technologies Pvt. Ltd.

**Department of Information Technology Engineering**

- Mr. Omkar Kadam, Lead DevOps Engineer, Cactus Communication, (DBIT Alumni).
- Mr. Vivek Hatkar, Delivery Manager, L&T Infotech

**Department of Mechanical Engineering**

- Mr. Yogesh J Bhamare, Khadi and Village Industries Commission  
Ministry of Micro, Small and Medium Enterprises is the ministry in the Government of India
- Mr. Sarjerao Kasar, Project Manager, Toyo Engineering



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- Mr. Hitesh Hiran, Co-founder & Director, Spoctech Green Ventures Pvt. Ltd.
- Mr. Shreyas Bakshi, Founder, DWM Innovations Pvt. Ltd.
- Mr. Ajay RamSubramaniam, Founder & CEO, Startup- Reseau.
- Mr. Chirag Tanna, Founder, Patent and Trademark Agent, INK IDEE

All the project abstracts are compiled in the form of the Brochure and e-booklet was published via online mode by the chief guest. The project evaluation is evaluated by the external judges based on the rubrics prepared by the expert judges' team at institute level. Based on the total scored marksheet, winners of the competition are declared department wise. The winners are as follows.

**Innovex 2024 Winners**

**Department of Computer Engineering**

**1st Prize**

Interactive 3D Bot with Generative AI

Team:

Mr. Belhekar Vipul Gurudatt Ujjwala

Mr.Dharmadhikari Yash Abhijit

Mr.Madkaikar Siddhesh Sanjay

Guide: Dr. Amiyakumar Tripathy

**2nd Prize**

EDSense - Early Screening and Dynamic Intervention of children with insufficient number sense

Team:

Avhad Sarvesh

Chaudhari Raj

Ghate Om

Guide: Ms. Dipti Jadhav



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**3rd Prize**

Multilingual language model with code switch

Team:

Ms. Chaudhari Sanika

Ms. Jeughale Sakshi

Ms. Purohit Madhavi

Guide: Dr. Shaikh Phiroj

**Department of Electronics & Telecommunication**

**1st Prize**

Design and Development of a Metasurface Antenna for Sensing Applications. (In collaboration with IIT BHU)

Team:

Ms. Rakshita Khantwal

Mr. Suraj Kumar

Guide: Dr. Ashwini Kotrashetti

Co- Guide: Ms. Freda Carvalho

**2nd Prize**

Development of Container GPS Tracking System to Enhance Supply Chain Security. (Industry Collaboration: QDnet Technologies)

Team:

Mr. Sanskar Kumar

Mr. Russel Dmello

Ms. Sakshi Kaveri

Mr. Shreyas Nanaware

Guide: Ms. Freda Carvalho



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**3rd Prize**

Smart Water Management using LoRaWan (Industry Collaboration: QDnet Technologies)

Team:

Mr. Benish Christo Louis

Mr. Leroy Rodrigues

Mr. Deep Patel

Ms. Simran Koparkar

Guide:- Ms. Poonam Chakraborty

**Department of Information Technology**

**1st Prize**

Comparative Analysis of Deepfake Detection Models

Team:

Ms. Vendra Sekar

Mr. Om Jannu

Mr. Tushar Padhy

Guide: Mr. Prasad Padalkar

**2nd Prize**

Identification of Not Suitable for Work (NSFW) Images

Team:

Ms. Simar Kaur Dua

Mr. Ravi Pandey

Mr. Jasmit Rathod

Guide: Ms. Aruna Khubalkar



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**3rd Prize**

Comparative Analysis of Models for Emotion, Mental Health Conditions, and Symptom Detection  
Team:

Ms. Suhani Desale

Ms. Saanvi Naik

Guide:- Ms. Sunantha Krishnan

**Department of Mechanical Engineering**

**1st Prize**

A Novel 3 Axis Scissor kinematics-based motion system with Double Universal Joint configuration.

Team:

Ms. Yadav Dixita Arvind Sudha

Mr. Mane Sameep Shashikant Sushma

Mr. Veer Vinayak Arun Asmita

Mr. Salunke Ritesh Rajan Reema

Guide: Mr. Swapnil Gujarathi

**2nd Prize**

FractureCast 2.0: A Multipurpose Photogrammetric Device for Advanced 3D Printing

Team:

Mr. Pinto Shaun Charles Anita

Mr. Parmar Dev Janak Vasanti

Mr. Ved Neel Ajay Krishna

Mr. Panchal Priyank Rajesh

Guide: Mr. Shreeprasad Manohar



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**3rd Prize**

Conversion of Plastic Waste into Fuel, a Sustainable Approach

Team:

Mr. Surpal Gagandeep Singh

Mr. Panesar Harjinder Singh

Mr. Chogale Saurabh

Mr. Mahajan Aryaman

Guide: - Mr. Madan Kulkarni

**Consolation Prize 1**

Reimagining Women's Mobility in Urban Settings

Team:

Mr. Gupta Vidhu Shekhar Monika

Mr. Viraj Vidyadharan Suja

Mr. Chavan Neel Sanjay

Mr. Pratham Sandeep

Guide:- Dr. Prasanna Nambiar

**Consolation Prize 2**

Finite Element Modelling of Steel Incinerator Containing Biomedical Waste

Team:

Mr. Dwivedi Anuragdhara

Mr. Gangishetti Shivanth

Mr. Yalgi Abhishek

Mr. Patankar Suyash

Guide: - Mr. Johnson Varghese.



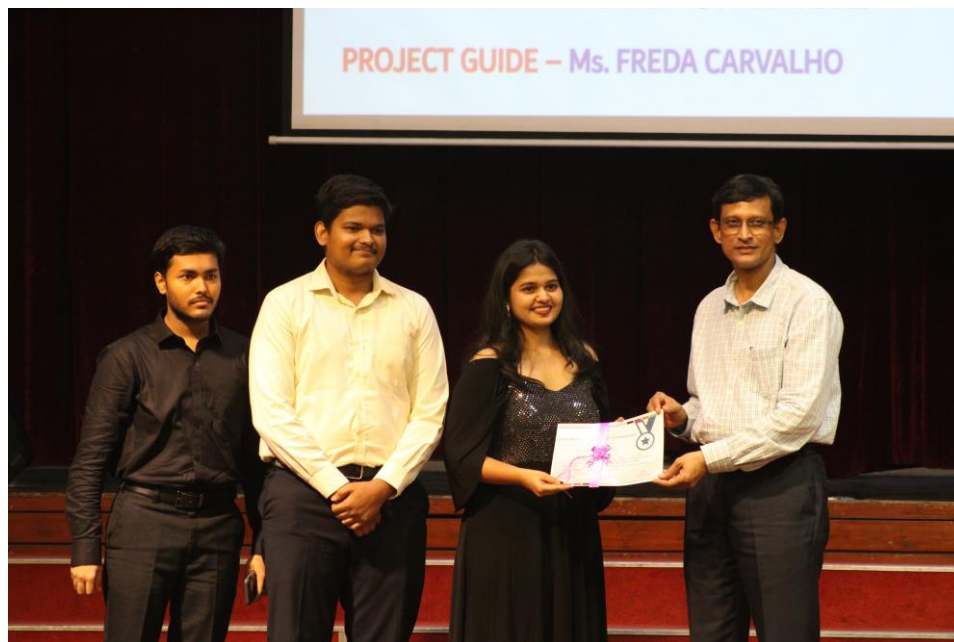
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All the competition Prize winners were felicitated during the BE Farewell function by the Principal, Management and Heads of the institution. They are honored by Certificates and Prize money distribution.

**INNOVEX 2024** was co-ordinated by the team of all the department BE project co-ordinators, Ms. Clea P., Mr. Mahesh Rajwade (Inaugural function and Venue arrangement team) Ms. Madhavi S. Pednekar (Judges and Valedictory), Ms. Janhavi B. (Invite, publicity, and Booklet In-charge) and Ms. Sana Shaikh (Hospitality) under the guidance of Prof. Shiv Negi, Dean R&D and Principal, Dr. S. S. Mande and all the heads of the department. Mini Project coordinators, Ms. Mayura, Ms. Shainila, Ms. Freda, Mr. Ankur, Mr. Nilesh have also helped for the smooth conduction of this competition.

**Event Photos:**



**Prize Winners Felicitation**



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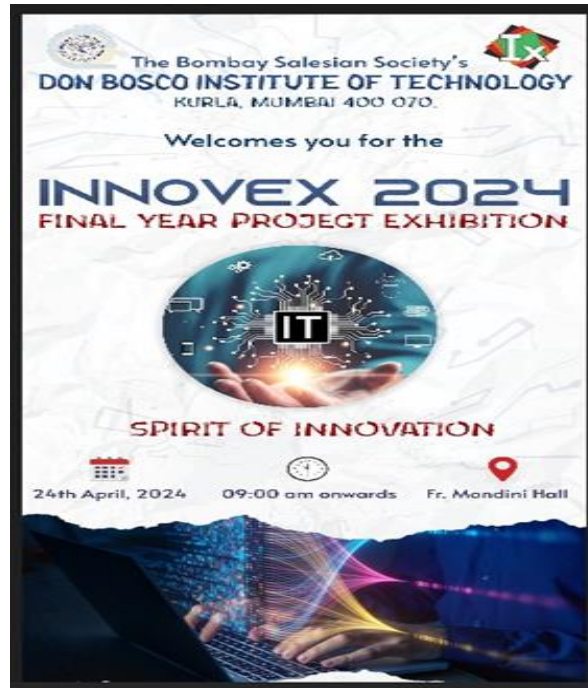
**Poster: Invitation and Publicity**





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**Prepared by**

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Information Technology, DBIT

**Approved by**

Prof. Shivsevak Negi  
Dean R & D and Asst. Professor,  
Information Technology, DBIT.