



The Bombay Salesian Society's  
**DON BOSCO INSTITUTE OF TECHNOLOGY**  
Premier Automobiles Road, Kurla West, Mumbai - 400070



Departments: Computers, EXTC, IT and Mechanical Engineering Department

Event: INNOVEX 2025 BE Project Exhibition

Date of Event: 4th April 2025

### **Report on - INNOVEX '25**

**Title:** Innovex '25

**Date:** 4th April 2025

**Time:** 9 am onwards

**Venue:** Mondini Hall and Seminar Hall

**Target Audience:** FE/COMP/EXTC/IT/MECH

**No. of Participants:**

BE Computer - 65, BE EXTC - 56, BE IT - 58, BE Mech - 90 (**Total Participants - 269**)

**Chief Guest:** Tom Jose Co-Founder at Amplispot (ALUMNI)

**Organization of Recourse Person:** Co-Founder at Amplispot, Mumbai

**Faculty Coordinators:** Ms. Sana Shaikh, Ms. Poonam Chakraborty, Mr. Uday Nayak, Ms. Cleta Pereira and Mr. Mahesh Rajwade

#### **Objectives:**

##### **❖ Promote Innovation and Creativity**

- Inspire out-of-the-box thinking and encourage unique, impactful project ideas.
- Explore emerging technologies and novel approaches in engineering.

##### **❖ Industry Readiness and Exposure**

- To bridge the gap between academia and industry by providing exposure to real-world expectations, evaluation by industry experts, and constructive feedback.

##### **❖ Project Management and Teamwork**

- To enhance skills in planning, organizing, and executing a project within a defined timeline, while working efficiently in a team-based environment.

#### **Outcomes:**

- The Technical Project Competition and Exhibition provided students with a platform to apply theoretical knowledge to practical challenges, fostering innovation, teamwork, and problem-solving abilities.
- Through hands-on project development and interdisciplinary collaboration, participants enhanced their technical and communication skills while gaining exposure to industry expectations.
- The event not only boosted their confidence and motivation but also offered valuable feedback from experts, encouraging further pursuit of excellence in engineering and innovation.

## **Detailed Report:**

The eighth edition of the Final Year Annual Project Exhibition, INNOVEX 2025, was successfully conducted, aligning with DBIT's vision of nurturing employable engineers capable of ideating and designing solutions that address real-world challenges faced by both society and industry. Organized by the B.E. undergraduate students, the exhibition showcased their sustained efforts across Semesters 7 and 8, reflecting strong collaboration between students and faculty.

INNOVEX serves as a dynamic platform for final-year students to present their year-long project work, engage in open-ended discussions, and gain constructive feedback to enhance the scope and impact of their innovations. It also provides an opportunity for students to pitch their ideas and solutions before a distinguished panel of judges comprising professionals from industry, academia, stakeholders, alumni, and parents.

All eligible projects from each department were displayed with corresponding posters for live demonstration and evaluation. Esteemed judges assigned to each department assessed the projects based on innovation, implementation, and relevance.

INNOVEX 2025 commenced on 4th April with an Inaugural Ceremony at 9:30 AM, followed by project exhibitions:

- EXTC, Computer Engineering, and Mechanical Engineering departments showcased their projects in Mondini Hall
- Information Technology department exhibited their projects in the Seminar Hall

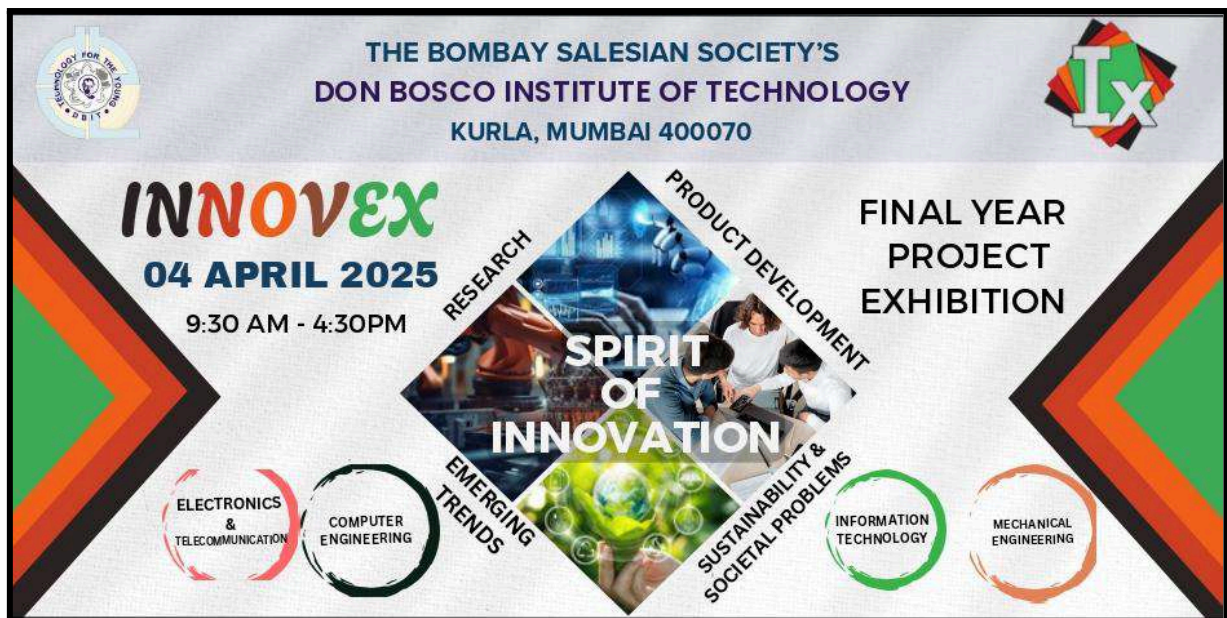
The number of participating projects per department were as follows:

- Computer – 22 projects
- Information Technology – 15 projects
- EXTC – 15 projects
- Mechanical Engineering – 23 projects

The results were announced during the Valedictory Function held in Mondini Hall later that day. INNOVEX 2025 was organized under the visionary guidance of Dr. Sudhakar Mande, Principal, and Dr. Amiya Kumar Tripathy, Dean (Research and Innovation) with unwavering support from the DBIT Management, Heads of Departments - Mr. Imran Ali Mirza, Ms. Dipti Jadhav, Ms. Madhavi Pednekar, Ms. Sunantha Krishnan and Mr. Swapnil Gujarati, and last but not the least Project Coordinators of all participating departments - Ms. Sana Shaikh, Ms. Poonam Chakraborty, Mr. Uday Nayak, Ms. Clea Pereira and Mr. Mahesh Rajwade along with their Mini Project Coordinators and Students volunteer's team.

## **INNOVEX 2025 INAUGURAL CEREMONY**

The INNOVEX '25 Inaugural Ceremony was organized on 4th April, 2025 in the Mondini Hall at 9:30 am.



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. Nelson Carvalho** led the audience in a heartfelt and uplifting prayer, setting a positive and reflective tone for the day. His words invoked a sense of gratitude, purpose, and unity among the gathering, creating a spiritually enriching start to the event.

Following the prayer, **Fr. Anthony Pinto** delivered an inspiring address, emphasizing perseverance, innovation, and ethical responsibility in the journey to becoming successful engineers and responsible citizens. His motivating words encouraged students to dream big, stay grounded, and use their skills to make a meaningful impact.



Prayer by Rev. Fr. Nelson Carvalho



Address by Rev. Fr. Anthony Pinto

The ceremony continued with a welcome note and introduction to INNOVEX by **Dr. Sudhakar Mande**, Principal of DBIT. He warmly greeted the audience and emphasized INNOVEX as a key platform for students to showcase innovation, technical skills, and problem-solving abilities. Highlighting the collaborative efforts of students and faculty, he encouraged participants to continue pushing boundaries and contribute meaningfully to society and industry. His address not only set the tone for the event but also reinforced the institution's mission to nurture capable, responsible, and future-ready engineers.



Welcome Address & Introduction to Innovex by Dr. Sudhakar Mande

Dr. Amiya Kumar Tripathy, Dean of Research at DBIT, delivered a thoughtful and motivating address during the event. He emphasized the critical role of research and innovation in shaping the future of engineering and technological advancement. He highlighted how INNOVEX acts as a catalyst for nurturing a research-oriented mindset among students, encouraging them to move beyond theoretical learning and apply their knowledge to solve real-world problems.



Address by Dr. Amiya Kumar Tripathy

**Mr. Tom Jose**, a seasoned tech entrepreneur with over a decade of experience, was the Chief Guest for the event. He emphasized the importance of leadership, knowledge sharing, and skill development. With a background spanning roles at L&T Infotech, KPMG, and as co-founder of Talview, Tom now leads digital initiatives at Amplispot, specializing in social selling, brand building, and employee advocacy. His key strengths include digital marketing, B2B sales, and personal branding.

He inspired the Gen Z audience to focus on leadership, continuous learning, and skill development. Urging them not to just chase jobs, he encouraged embracing entrepreneurship, taking risks, and building a strong vision to sustain and thrive in the future.



### Address by Chief Guest, Mr. Tom Jose

Next, we had the felicitation of all the judges present for the inaugural ceremony. We extend our heartfelt thanks to them for graciously accepting our invitation and taking the time to be part of this special occasion. Their presence added great value to the event.





### Felicitation of Judges

The **INNOVEX 2025 e-Brochure** was officially released during the ceremony, marking a significant moment in the event. The e-Brochure serves as a comprehensive guide, capturing the essence of INNOVEX 2025—its vision, objectives, and the wide array of innovative projects presented by the final-year students across all departments. The release was graced

by the dignitaries on stage, symbolizing the formal commencement of the exhibition. It highlights detailed project abstracts, team compositions, guiding faculty members, and key themes explored by students, ranging from real-world industrial challenges to socially relevant solutions.



### Release of Innovex 2025 eBrochure

Following the official release of the INNOVEX 2025 e-Brochure, the exhibition was formally inaugurated, marking the beginning of an exciting and intellectually engaging showcase of final-year student projects. The exhibition halls—Mondini Hall for EXTC, Computer, and Mechanical Engineering departments, and the Seminar Hall for the IT department—came alive with energy and innovation.







## Innovex 2025 - Project Exhibition

### Feedback Analysis: Computer Department

Judges appreciated the enthusiasm, clarity, and depth of understanding shown by students during presentations. The initiative of providing a platform like INNOVEX was seen as valuable for student growth and industry readiness.

#### **Overall Impressions:**

- Judges were highly impressed with the overall quality of projects and the talent displayed by DBIT students.
- The event was well-organized, and the presentation by students was professional and engaging.
- The range of ideas and innovation showcased across departments was appreciated.

#### **Suggestions for Improvement:**

1. Practical Application & End-User Focus
  - While innovation was commendable, judges recommended placing more emphasis on real-world applicability and user-centric design.
  - Projects should aim to solve practical problems that have a clear and measurable impact on end users.
2. Exploring Hardware Projects
  - It was noted that Computer Engineering students can expand into hardware-based solutions, not just software.
  - One of the judges offered to assist with project ideas and suggestions in this direction for future batches.

### Feedback Analysis: EXTC Department

**Overall Impressions:** Judges were highly impressed by the EXTC students' ability to effectively integrate both hardware and software components in their projects. Several industry-sponsored projects stood out for their practical relevance and alignment with current technological needs, reflecting strong collaboration with industry partners. The innovative solutions showcased a deep understanding of core technical concepts, along with a creative

and analytical approach to problem-solving. Students demonstrated remarkable confidence, clarity, and enthusiasm during their presentations. The INNOVEX platform was praised for fostering industry readiness and hands-on learning. The event was well-organized, and the professionalism of the student teams contributed significantly to the overall success and positive impact of the showcase.

### **Suggestions for Improvement:**

**Enhance Real-World Impact:** While several projects were industry-sponsored, judges suggested ensuring all projects aim to solve real, practical problems with measurable outcomes and a strong end-user focus.

**Deepen Technical Integration:** Students are encouraged to further explore advanced hardware-software co-design, leveraging technologies like embedded AI, IoT, and communication systems to enhance innovation.

**Expand Industry Collaboration:** Continue fostering industry partnerships, as seen in 4–5 sponsored groups. Judges recommended expanding such collaborations for mentorship, problem statements, and real-time project feedback.

### **Feedback Analysis: IT Department**

**Overall Impressions:** Both the judges were impressed by the professional conduct of the students while presenting, and liked the uniqueness of the ideas. Mr. Devesh felt the electronic marking was good. The innovative solutions reflected a thorough understanding of core technical concepts.

**Suggestions for improvement:** Both the judges felt there was a need for industry collaborations which would result in good mentoring and critical feedback.

### **Feedback Analysis: Mech Department**

**Overall Impressions:** All the judges were impressed with the way the exhibition was conducted and the presentation of the projects by the students.

Moreover they appreciated the ideation and the design by the students and the efforts taken for fabrication of the prototypes.

### **Suggestions for Improvement:**

Mr. Prashant Chauthkantiwar suggested that for the projects under product design criteria, the students need to be trained on product costing and marketing techniques. Mr. Piyushkumar Mohanta stressed upon mentoring the students for entrepreneurship and incubation. Mr. Sarjerao Kasar emphasized on including the sustainability angle in design and fabrication of projects that is use of recycled materials and sustainable solutions. Mr. Hasan Khan mentioned the need for training and mentoring the students to convert their projects into a product.

## Event Poster:



### COMPUTER ENGINEERING DEPARTMENT

A total of 22 BE Computer final year projects were participated for INNOVEX 2025. Projects were categorized in 4 different categories under the Computer Engineering department section on the INNOVEX 2025:

- i. Research
- ii. Product development
- iii. Sustainability and Societal Problems
- iv. Emerging Technologies

There were 03 judges who evaluated projects for Computer Department on 4th April 2025:

- Mr. Arun Vaz, Founder at Bharat Valley
- Reyner Dsouza (ALUMNI), Manager – Data Engineering Management and Governance, Accenture
- Christopher Carvalho (ALUMNI), Data Center Manager (DCM), Amazon Web Services (AWS)

The winners for INNOVEX 2025 from Computer Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	ArgMed-Agents: Explainable Clinical Decision Reasoning with LLM via Argumentation Schemes	Dr. Amiya Kumar Tripathy	Anushka Joseph Figo Fernandez Jess John

2	Brainstroke detection using Deep Learning and Convolutional LSTM	Dr. Shaikh Phiroj	Shanaya Carvalho Ansel Dsouza Hani Kotian
3	Virtual Interview Mastery: An AI-Driven Simulation Experience	Prof. Imran Ali Mirza	Niraj Pingale Saniya Rawat Malivia Rodrigues
3	Symphony Synth: LSTM-Powered Music Generation	Prof. Dipti Jadhav	Roshan Kainee Shantanu Mande Aditya Samant

## **DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING**

A total of 15 BE EXTC final year projects were participated for INNOVEX 2025. Projects were categorized in 4 different categories under the EXTC Engineering department section on the INNOVEX 2025:

- i. Research
- ii. Product development
- iii. Sustainability and Societal Problems
- iv. Emerging Technologies

There were 02 judges who evaluated projects for EXTC Department on 4th April 2025:

- Mr. Santosh Thombre
- Mr. Arzan Elchidana (ALUMNI)

The winners for INNOVEX 2025 from EXTC Engineering Department are:

<b>Rank</b>	<b>Project Title</b>	<b>Project Guide</b>	<b>Student Team</b>
1	DIGITAL NOTICE BOARD USING IOT	Dr. Sudhakar Mande & Co-guide Prof. Aparna Telgote	Suraj Golambade, Girish Sangare, Shafik Shaikh, Khushi Shetty
2	Design and Development of a Miniaturized Low Frequency Antenna	Prof. Freda Carvalho & Co-guide Dr. Ashwini Kotrashetti	Dibyarupa Pradhan Sakshi Shidruk Ananya Boliyar Yash Garje
3	GROUP NO: 09 Market Minds: Predicting stock trends using ML	Prof. Aparna Telgote	Raj Mohite Himanshu Jogi Sanjeet Prajapati Prathamesh Vasta

Dr. Sundarajan Award		
Design and Development of a High Power Compact Antenna	Dr. Ashwini Kotrashetti & Co-guide: Prof. Freda Carvalho	Diya Rai Amey Bhombade Rohit Mali Annanya Zadbuke

### **INFORMATION TECHNOLOGY DEPARTMENT**

A total of 15 BE IT final year projects were participated for INNOVEX 2025. Projects were categorized in 4 different categories under the IT Engineering department section on the INNOVEX 2025:

- i. Research
- ii. Product development
- iii. Sustainability
- iv. Societal Problems

There were 02 judges who evaluated projects for IT Department on 4th April 2025:

- Mr. Devesh Rajadhyax, Founder & CEO, Cere Labs Pvt. Ltd.
- Mr. Tarak Nagaraj, Founder & GM, AbhayaTech

The winners for INNOVEX 2025 from IT Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	LawQuest: The school edition	Prof. Vaishali Kavathekar	Srushti Shete Shazmeen Shaikh Shravani Shinde Oswin Alex
2	GeoCrimeTracker: Crime mapping System using gis	Prof. Tayyabali Sayyad	Pratham Junghare Nikita Maurya Anthony Brighton Vaishnavi Nagave
3	Automated detection and security analysis	Prof. Prasad Padalkar	Advay Gujar Aditya Kareer Srujana Makarande Dhruuv Naik

### **MECHANICAL ENGINEERING DEPARTMENT**

A total of 23 BE MECH final year projects were participated for INNOVEX 2025. Projects were categorized in 4 different categories under the MECH Engineering department section on the INNOVEX 2025:

- i. Research
- ii. Product development

- iii. Sustainability and
- iv. Societal Problems

There were 04 judges who evaluated projects for MECH Department on 4th April 2025:

- Mr. Sarjerao Prakesh Kasar, Project Manager, Toyo Engineering
- Mr. Prashant Chauthkantiwar, Proprietor, Agrani Engineering Services
- Mr. Piyush Kumar Mohanta, Marketing Executive, Khadi and Village Industries Commission.
- Mr. Hasan Khan, ESG consultant

The winners for INNOVEX 2025 from MECH Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	AC cum Dryer	Dr. Yogesh Padiya	Inamdar Sarfaraz Ahmed Abdul Khan Faizan Gulam Husain R. Kanojiya Shailesh Prakashchand Shinde Pravin Ramesh Surekha
2	Design and Development of a Tensile testing apparatus to measure mechanical Properties of 3D printed specimens made from different materials	Prof. Swapnil Gujarathi	Mahadik Shardul Santosh S. Gawle Sagar Ashok Vandana Talekar Sankalp Satish Veena Bomble Atharva Suresh Reshma
3	Electrical Power Generation from Foot Step	Prof. Hemant Hogade	Nikam Kunal Dadakhote Dipali Dubale Swarnang Sadashiv S. Daristekar Krunal Pravin S. Patne Rahul Ramesh Tanu

### Valedictory & Prize Distribution Ceremony

The **Valedictory and Prize Distribution Ceremony** marked the grand finale of **INNOVEX 2025**, celebrating the hard work, innovation, and dedication of the final-year students. During the ceremony, the winning teams from each department were felicitated with certificates and prizes in recognition of their outstanding projects and impactful contributions.

Current B.E. students who participated from each department took a moment to share their experiences and reflections on being part of **INNOVEX 2025**. Representing their respective departments—**Computer, EXTC, IT, and Mechanical Engineering**—students spoke about

the journey of transforming an idea into a working project, the challenges faced, and the valuable lessons learned along the way.

They expressed their gratitude towards their mentors and faculty guides for their constant support and encouragement, and appreciated the platform that **INNOVEX** provided to showcase their innovations to industry professionals, alumni, and peers.



Experience sharing by Participants from each department



Experience sharing by Participants from each department



Compering Valedictory Ceremony

## Winners of COMPS Department



**1st Prize**



**2nd Prize**



**3rd Prize**



**3rd Prize**

## Winners of EXTC Department



**1st Prize**



**2nd Prize**



**3rd Prize**



**Dr. Sundarajan Award**

## Winners of IT Department



**1st Prize**



**2nd Prize**



**3rd Prize**

## Winners of Mech Department



**1st Prize**



**2nd Prize**



**3rd Prize**

The event concluded with a thoughtful address by **Fr. Charles**, who commended the students, faculty, and organizers for the successful execution of INNOVEX 2025. He emphasized the importance of continued learning, innovation with purpose, and staying grounded in values as students move ahead in their professional journeys. His words brought the event to a meaningful close, leaving the audience inspired and proud of their collective achievement.



### Concluding address by Fr. Charles Anthony

This was followed by a heartfelt Vote of Thanks delivered by **Ms. Janhavi Baikerikar**, who expressed sincere gratitude to all those who contributed to the success of INNOVEX 2025. She extended thanks to the esteemed guests, judges, faculty members, project coordinators, and management for their unwavering support and encouragement.



### Vote of Thanks by Ms. Janhavi Baikerikar

The success of INNOVEX 2025 was made possible through the dedicated efforts of the **Project Coordinators Team**, who played a pivotal role in planning, organizing, and executing the event with precision and professionalism.

Under the guidance of the Principal and Dean of Research, the coordinators worked tirelessly to ensure every aspect of the exhibition



### INNOVEX 2025 - Project Coordinators

#### **Report Prepared By:**

Ms. Sana Shaikh - Project Coordinator, Computer Dept.

Ms. Poonam Chakraborty - Project Coordinator, EXTC Dept.

Mr. Udaychandra Nayak - Project Coordinator, IT Dept.

Ms. Cleta Pereira and Mr. Mahesh Rajwade - Project Coordinators, Mech Dept.

#### **Report Approved By:**

Dr. Sudhakar Mande, Principal DBIT

Dr. Amiya Kumar Tripathy, Dean (Research and Innovation), DBIT