



The Bombay Salesian Society's
DON BOSCO INSTITUTE OF TECHNOLOGY
(An Autonomous Institute affiliated to the University of Mumbai)
Premier Automobiles Road, Kurla West, Mumbai - 400070



Report on - INNOVEX '26 (Annual BE Project Exhibition)

Title: Innovex '26

Date: 8th May 2026

Time: 9:00 am onwards

Venue: Mondini Hall and Seminar Hall

Target Audience: FE/COMP/EXTC/IT/MECH students and visitors of Industry and Academia

No. of Participants: BE Computer - 66, BE EXTC - 53, BE IT - 63, BE Mech - 94 (**Total Participants - 276**)

Chief Guest: Mr. Vivek Shah (ALUMNI)

Organization of Recourse Person: Vice President-Jiostar

Faculty Coordinators: Dr. Seema Nehete, Prof. Poonam Chakraborty, Prof. Udaychandra A Nayak, Prof. Cleto Pereira and Prof. Mahesh Rajwade



Detailed Report:

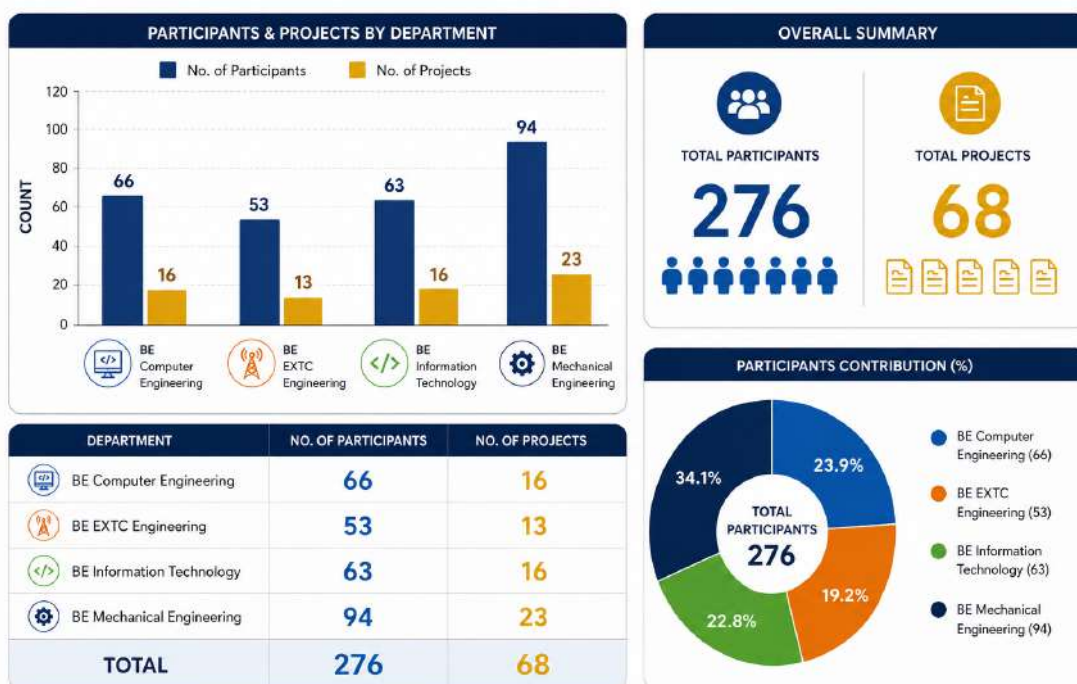
The ninth edition of the Final Year Annual Project Exhibition, **INNOVEX 2026**, was successfully conducted in alignment with DBIT's vision of nurturing employable engineers capable of ideating and developing solutions to address real-world societal and industrial challenges. Organized for the B.E. undergraduate students, the exhibition showcased the dedicated efforts undertaken by students over Semesters VII and VIII, highlighting strong collaboration between students and faculty members.

INNOVEX serves as a vibrant platform for final-year students to present their year-long project work, participate in meaningful discussions, and receive constructive feedback aimed at enhancing the scope and impact of their innovations. The exhibition also provided students with an opportunity to pitch their ideas and solutions before a distinguished panel comprising industry experts, academicians, stakeholders, alumni, and parents.

All eligible projects from each department were displayed along with posters for live demonstrations and evaluation. The projects were assessed by esteemed judges assigned to each department on the basis of innovation, implementation, and relevance.

INNOVEX 2026 commenced on 8th May with the Inaugural Ceremony held at 9:30 AM, followed by the project exhibitions:

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



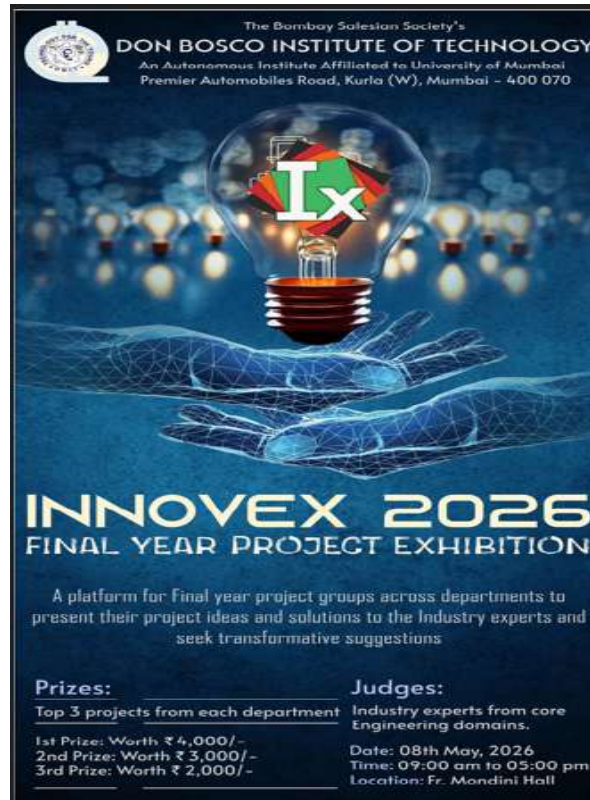
The results were announced during the Valedictory Function held later that day in Mondini Hall.

INNOVEX 2026 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. Valuable contributions were also made by the Heads of Departments — Prof. Imran Ali Mirza, Dr. Dipti Jadhav, Dr. Madhavi Pednekar, Dr. Sunantha Krishnan, and Prof.

Swapnil Gujarati. The event's successful execution was further ensured by the dedicated efforts of the Project Coordinators of all participating departments — Dr. Seema Nehete, Prof. Poonam Chakraborty, Prof. Udaychandra A Nayak, Prof. Cleto Pereira, and Prof. Mahesh Rajwade — along with the Mini Project Coordinators and the student volunteer team.

INNOVEX 2026 INAUGURAL CEREMONY

The INNOVEX '26 Inaugural Ceremony was organized on 8th May, 2026 in the Mondini Hall at 9:30 am.



Innovex Banner

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, Campus Minister, DBCL 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, Rector Director, DBCL** delivered an inspiring address, highlighting the importance of perseverance, innovation, and ethical responsibility in shaping successful engineers and responsible citizens. His motivating words encouraged students to aspire ambitiously, remain grounded in their values, and apply their knowledge and skills toward creating a positive impact on society.



Prayer by Rev. Fr. Nelson Carvalho



Address by Rev. Fr. Anthony Pinto

The ceremony proceeded with a welcome address and introduction to INNOVEX by Dr. Sudhakar Mande, Principal of DBIT. He warmly welcomed the gathering and highlighted INNOVEX as an important platform for students to demonstrate their innovation, technical expertise, and problem-solving capabilities. Acknowledging the collaborative efforts of both students and faculty, he encouraged participants to continue exploring new possibilities and contribute meaningfully to society and industry. His address set an inspiring tone for the event while reinforcing the institution's commitment to nurturing competent, 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. He also announced **INNOSPARK**, an initiative for first-year students that will provide a platform to showcase their workshop projects, encouraging innovation and creativity from the early stages of their engineering journey.



Address by Dr. Amiya Kumar Tripathy

Chief Guest Mr. Vivek Shah, currently serving as Vice President at JioStar, delivered an insightful and inspiring address during the event. He spoke about his work in analyzing IPL viewership data to understand audience profiles, identify viewer interests, and predict future viewing preferences. Sharing valuable industry insights, he emphasized the growing importance of data analytics and technology in enhancing user engagement and digital experiences.

Addressing the Gen Z students, he strongly encouraged them to focus on live coding and develop strong programming fundamentals rather than becoming overly dependent on online GPT tools. Reflecting on his own academic journey, he shared how he had personally written every line of code during his Data Structures course, a practice that helped him build a solid technical foundation and contributed significantly to his professional growth and leadership abilities throughout his career.

He also highlighted his extensive contributions to renowned organizations such as Hotstar, LEAD School, upGrad, Media.net, eClerx, and Cognizant, where he played a significant role in shaping digital marketing strategies and operational excellence.



Address by Chief Guest, Mr. Vivek Shah

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 2026 e-Brochure was officially unveiled during the ceremony, marking a significant milestone of the event. Serving as a comprehensive guide, the e-Brochure encapsulates the vision, objectives, and diverse range of innovative projects showcased by the final-year students across all participating departments. The release, carried out in the presence of the dignitaries on stage, symbolized the formal inauguration of the exhibition.

The e-Brochure features detailed project abstracts, team details, faculty mentors, and the key themes explored by the students. The projects addressed a wide spectrum of topics, including real-world industrial challenges and socially impactful solutions, reflecting the creativity, technical competence, and innovative spirit of the students. The link for e-brochure is <https://heyzine.com/flip-book/a63ff0e51a.html>



Release of Innovex 2026 eBrochure

Following the official release of the INNOVEX 2026 e-Brochure, the exhibition was formally inaugurated, marking the commencement of an exciting and intellectually enriching showcase of final-year student projects. The exhibition venues — Mondini Hall for the EXTC, Computer Engineering, and Mechanical Engineering departments, and the Seminar Hall for the Information Technology department — were filled with enthusiasm, creativity, and innovation as students presented their projects and ideas.





Innovex 2026 - 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:

The judges expressed an overall positive impression of INNOVEX 2026, appreciating the excellent organization, enthusiastic participation, and innovative project presentations by the students. They commended the students for their technical knowledge, creativity, confidence,

and presentation skills, while also acknowledging the coordinated efforts of the faculty and organizing team in conducting the event successfully. One of the judges remarked that the exhibition was “already amazing” and that the entire event was seamless, reflecting the high standards maintained throughout.

Suggestions for Improvement:

1. **Enhancing Practical Implementation and Scalability**
Encourage students to further enhance the practical implementation and scalability of their projects to address larger real-world and industrial challenges.
2. **Promoting Interdisciplinary Collaboration**
Include more interdisciplinary and collaborative projects to promote innovative problem-solving and broader learning experiences among students.

Feedback Analysis: EXTC Department

The judges appreciated the innovative ideas, technical implementation, and practical relevance of the projects presented by the EXTC students. They commended the students for their confidence, teamwork, and clarity while explaining complex technical concepts. The judges also acknowledged the efforts taken to align projects with current industry trends, emerging technologies, and societal needs.

Overall Impressions:

The judges expressed their appreciation for the smooth organization and professional execution of INNOVEX 2026. They were impressed by the diversity of projects showcased across domains such as AI, IoT, Embedded Systems, Communication, Healthcare, and Smart Technologies. The projects reflected strong technical knowledge, creativity, and problem-solving abilities among students. The event successfully created an industry-oriented learning environment and provided valuable exposure to the participants. The judges appreciated that mostly all the projects were aligned with the United Nations Sustainable Development Goals (SDGs), reflecting the students’ awareness of societal challenges and their efforts to develop technology-driven solutions for sustainability, healthcare, smart infrastructure, safety, and environmental monitoring.

Suggestions for Improvement: Encourage students to focus more on prototype refinement and real-time deployment aspects for industry readiness.

Increase interdisciplinary collaborations with other departments to develop more integrated and impactful solutions.

Promote research publication, patent filing, and startup opportunities for innovative projects with commercialization potential.

The judges encouraged students to continue focusing on SDG-oriented projects that address real-world societal and environmental challenges through innovative engineering solutions.

Feedback Analysis: IT Department

Judges’ Feedback

The judges appreciated the enthusiasm, confidence, and technical understanding demonstrated by the students during their project presentations. They acknowledged that platforms such as

INNOVEX 2026 provide valuable exposure by encouraging innovation, practical learning, and industry readiness.

Overall Impressions

The overall feedback for INNOVEX 2026 was highly positive. The judges praised the smooth organization of the event, active student participation, and the quality of the innovative projects showcased. They appreciated the students' creativity, communication skills, technical competence, and confidence in presenting their work. The efforts of the faculty members and organizing committee in ensuring the successful execution of the event were also recognized. One of the judges specifically noted the high level of planning, organization and professionalism reflected throughout the exhibition.

Suggestions for Improvement

- One judge has recommended it to be very clear, crisp and super-ready.
- Conduct such innovation platforms more frequently for continuous student development.

Feedback Analysis: Mech Department

Overall Impressions: The projects were innovative and aimed at problem solving. The judges were pleased to see the proper organization and the coordination of the event. The judges found the evaluation methodology was very smooth and timesaving. They were very impressed by seeing the use of technology and creativity by the students and at the same time keeping sustainability as priority. Overall the event was a great success.

Suggestions for Improvement:

1. After discussion with project groups Judges emphasized on providing a dedicated project lab for the students with basic fabrication and measurement facilities.
2. The projects with potential to become a patent or a startup should be encouraged and should be provided with necessary support and guidance by the institute.

COMPUTER ENGINEERING DEPARTMENT

A total of 16 BE Computer final year projects were participated for INNOVEX 2026. Projects were categorized in 4 different categories under the Computer Engineering department section on the INNOVEX 2026 as follows:

Sr. No	Project Category	Number of Projects	Description/Domain Focus	SDGs Mapped
1	Research	5	Projects focused on in-depth research,experimental analysis and innovative methodologies in core and emerging areas	3,4,9,11,16
2	Product Development	2	Projects aimed at designing and developing functional products,prototypes or systems for real world applications.	3,8,9,11
3	Sustainability and Societal Problems	7	Projects addressing social issues,environmental challenges and community needs through technology-driven solutions.	2,3,4,9,10,11,16
4	Emerging Technologies	3	Projects involving advanced and emerging technologies such as AI,IOT,Blockchain,5G and related domains	9,16



There were 02 judges who evaluated projects for Computer Department on 8th May 2026:

- Ms. Ditty Verghese (ALUMNI), **AI/ML Consultant and Global Content Lead, Sustainable Living Lab, Singapore**
- Ms. Jennifer Johnson (ALUMNI), **Team Lead in banking technology ,BNP Paribas.**

The winners for INNOVEX 2025 from Computer Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	CogniSync: AI-based Multi-Agent EEG Platform for Adaptive Cognitive Monitoring Through Interactive Modules.	Dr. Amiya Kumar Tripathy	1. Shaizy Shaikh 2. Iqra Shaikh 3. Shreya Chakraborty 4. Bhanudas Patil
2	FIRMate: Smart Legal Assistant for Accurate FIR Filing	Ms. Sana Shaikh	1. David Eluvathingal 2. Ruchir Chitre 3. Jiya Chaudhari 4. Rhea Paul
3	NeuroLearn: Empowering Neurodiverse Minds Through AI	Dr. Shaikh Phiroj	1. Rucha Tatkare 2. Tanisha Raorane 3. Erica Prasad 4. Aditya Kate

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

A total of 13 BE EXTC final year projects were participated for INNOVEX 2026. Projects were categorized in 4 different categories under the EXTC Engineering department section on the INNOVEX 2026 as follows:

Sr. No.	Project Category	Number of Projects	Description / Domain Focus	SDGs Mapped
1	Research	3	Projects focused on in-depth research, experimental analysis, and innovative methodologies in core and emerging areas.	SDG 4, SDG 9, SDG 17
2	Product Development	7	Projects aimed at designing and developing functional products, prototypes, or systems for real-world applications.	SDG 9, SDG 8, SDG 12
3	Sustainability and Societal Problems	1	Projects addressing social issues, environmental challenges, and community needs through technology-driven solutions.	SDG 3, SDG 11, SDG 13
4	Emerging Technologies	2	Projects involving advanced and emerging technologies such as AI, IoT, Blockchain, 5G, and related domains.	SDG 9, SDG 4, SDG 17
Total		13		



SDGs Mapped (Overall)	
	SDG 4: Quality Education – Projects promoting knowledge creation, research, and skill development.
	SDG 8: Decent Work and Economic Growth – Projects contributing to innovation, productivity, and industry-oriented solutions.
	SDG 9: Industry, Innovation and Infrastructure – Projects driving technological advancement and resilient infrastructure.
	SDG 11: Sustainable Cities and Communities – Projects addressing urban challenges and improving quality of life.
	SDG 12: Responsible Consumption and Production – Projects promoting efficient use of resources and sustainable practices.
	SDG 13: Climate Action – Projects focused on environmental protection and climate resilience.
	SDG 17: Partnerships for the Goals – Projects encouraging collaboration, knowledge sharing, and multi-stakeholder partnerships.

There were 02 judges who evaluated projects for EXTC Department on 8th May 2026:

- Mr. Kundan Khanolkar, Senior Executive Director of Technology, J.P. Morgan
- Ms. Sanjana Ingle (ALUMNI), Senior Consultant PWC Acceleration Center

The winners for INNOVEX 2026 from EXTC Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	AI-based Interview Simulator with RealTime Response Analysis	Prof. Pratibha Dumane	Dusane Harsh Chandrashekhar Kapadnis Samruddhi Vaibhav Belgaonkar Akash Vilas Gajbhiye Ayush Dhiraj
2	Design and Development of High-Power Vivaldi Antenna	Prof. Freda Carvahlo	Pawar Arpita Patil Samruddhi Shaikh Aftab Jero Royston
3	Environmental Monitoring Station	Dr. Madhavi Pednekar & Prof. Prasad Padalkar	Kurdekar Prathamesh Pujari Neel Singh Nisha Singh Priyanshukumar
Dr. Sundarajan Award			
INVISIFY: Reveal Invisible Data Secrets		Prof. Poonam Chakraborty	Nimije Yashi Sakharkar Priyanshu Ghadigaonkar Soham Ahire Tanmayee

INFORMATION TECHNOLOGY DEPARTMENT

A total of 16 BE IT final year projects were participated for INNOVEX 2026. Projects were categorized in 4 different categories under the IT Engineering department section on the INNOVEX 2026 as follows:

Sr. No	Project Category	Number of Projects	Description/Domain Focus	SDGs Mapped
1	Research	7	Projects focused on in-depth research,experimental analysis and innovative methodologies in core and emerging areas	3,4,9,11,16
2	Industry needs	3	Projects aimed at designing and developing functional products,prototypes or systems for real world applications.	4,8,9,12,13
3	Sustainability and Societal Problems	5	Projects addressing social issues,environmental challenges and community needs through technology-driven solutions.	3,4,11,13,15
4	Emerging Technologies	1	Projects involving advanced and emerging technologies such as AI,IOT,Blockchain,5G and related domains	4



There were 02 judges who evaluated projects for IT Department on 8th May 2026

- Mr. Siddhesh Vaidya , Systems Analyst at the National Stock Exchange of India Ltd.
- Mohilkumar Pandey, Associate Specialist – Quality, Synechron Technology India Pvt. Ltd.

The winners for INNOVEX 2026 from IT Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	SportsVerse – Multi Tenant Sports System with CDSR rating system and video analysis	Dr. Sunantha Guruswamy	Avadhoot Pawaskar Ketaki Zope Aarya Khanvilkar Hassan Khan
2	CodArena - Competitive Coding & Assessment Platform	Dr. Vaishali Kavathekar	Abhishek Agrahari Austin Dsouza Amit Gupta Noel Alfred

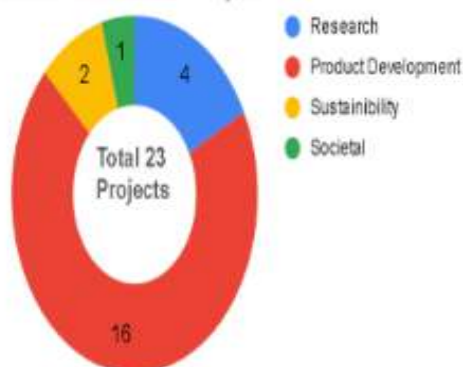
3	Long term agentic AI using Langgraph	Prof. Udaychandra A Nayak	Ben Furtado Joel Jose Rostan Lobo Rhugved Mane
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MECHANICAL ENGINEERING DEPARTMENT

A total of 23 BE MECH final year projects were participated for INNOVEX 2026. Projects were categorized in 4 different categories under the MECH Engineering department section on the INNOVEX 2026as follows:

Sr. No	Project Category	Number of Projects	Description/Domain Focus	SDGs Mapped
1	Research	4	Projects focused on in-depth research,experimental analysis and innovative methodologies in core and emerging areas	6,9
2	Product Development	16	Projects aimed at designing and developing functional products,prototypes or systems for real world applications.	2,3,6,7,9,12
3	Sustainability	2	Projects addressing social issues,environmental challenges and community needs through technology-driven solutions.	9,12
4	Societal	1	Projects addressing social issues through technology-driven solutions.	3,10

Domain wise Distribution of Projects



SDGs Mapped	
	SDG 2 - Zero Hunger: eliminate hunger, increase food security, improve nutrition, and promote sustainable agriculture.
	SDG 3 - Good Health and Well-being: Ensure healthy lifestyles and promote well-being for people of all ages.
	SDG 6 - Clean Water and Sanitation: Ensure that water and sanitation are available to everyone and managed sustainably.
	SDG 7 - Affordable and Clean Energy: Ensure that everyone has access to affordable, reliable, sustainable, and modern energy sources.
	SDG 9 - Industry, Innovation, and Infrastructure: Create resilient infrastructure, encourage inclusive and sustainable industrialisation and foster innovation.
	SDG 10 - Reduced Inequality: Reduce inequality within and between countries.
	SDG 12 - Responsible Consumption and Production: Ensure your consumption and production patterns are sustainable.

There were 04 judges who evaluated projects for MECH Department on 8th May 2026:

- Mr. Ravindra Prabhakar Shembekar, Founder of Technocraft Engineers
- Mr. Tanay A. Yawalkar, (ALUMNI), Chief Engineer, Oil and Natural Gas Corporation (ONGC)
- Mr. Kalpak Iyer, Founder and CEO of Tequity Engineering
- Mr Prashant Chouthkanthiwar, Proprietor, Agrani Engineering Services.

The winners for INNOVEX 2026 from MECH Engineering Department are:

Rank	Project Title	Project Guide	Student Team
1	Development of Compact Evaporative Cooled Window Air Conditioner	Dr. Yogesh Padiya	Subhankar Roy Shehzaan Shaikh Daniyaal Potrick Eisa Shaikh
2	Design and Fabrication of an Experimental Prototype on Cooling Tower	Prof. Cleta Pereira	Rahi Prajapati Soham Satvilkar Santosh Puri Atharva Kusurkar
3	Design and development of cooling system for helmet	Prof. Pavan Kulkarni	Amaan Shaikh Shubham Uttam Bhoir Nabil Shaikh Tanishq Bane
Consolation	Design and Analysis of Conformal Cooling Channel	Dr. Shreeprasad Manohar	Bhushan Sandeep Patil Alston Orman Ayman Fernandes Anto Alan John Kennedy

Valedictory & Prize Distribution Ceremony

The Valedictory and Prize Distribution Ceremony marked the successful conclusion of INNOVEX 2026, celebrating the innovation, dedication, and hard work demonstrated by the final-year students. During the ceremony, the winning teams from each department were honored with certificates and prizes in recognition of their exceptional projects and noteworthy contributions.

Students from the current B.E. batches representing the Computer Engineering, EXTC, Information Technology, and Mechanical Engineering departments also shared their experiences and reflections on participating in INNOVEX 2026. They spoke about their journey of transforming ideas into functional projects, the challenges they encountered, and the valuable knowledge and skills they gained throughout the process.

The students expressed heartfelt gratitude towards their mentors and faculty guides for their continuous support, guidance, and encouragement. They also appreciated INNOVEX as a valuable platform that enabled them to showcase their innovations and interact with industry experts, alumni, and fellow students.



Experience sharing by Participants from Comps and EXTC department



Experience sharing by Participants from IT and Mech department

Winners of COMPS Department





Winners of EXTC Department

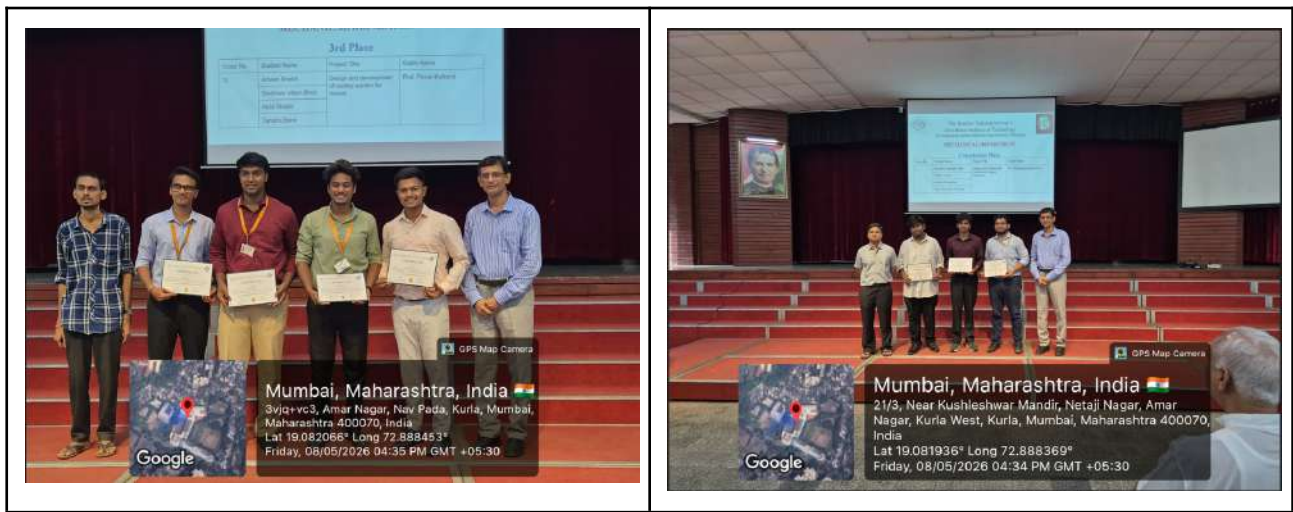


Winners of IT Department



Winners of Mech Department





After the prize distribution ceremony, Dr. Amiya shared details about the participation of the Computer Department students in the worldwide competition organized by the Sustainable Living Lab organization. The team participated with their project, “Ecolense,” and won a prize of \$50,000. Team member Ms. Anousha also briefed the audience about their participation and experience in the competition.



Experience sharing by Ms. Anusha Gupta, Runner-Up of the Meta Global YDCT Competition, Singapore, introduced by Dr. Amiya Kumar Tripathy

The event concluded with an inspiring address by Fr. Charles, Assistant Director, DBIT who appreciated the efforts of the students, faculty members, and organizers in making INNOVEX 2026

a grand success. He highlighted the significance of continuous learning, purposeful innovation, and upholding strong values as students progress in their professional careers. His thoughtful words brought the event to a meaningful and memorable conclusion, leaving the audience motivated and proud of their collective accomplishments.



Concluding address by Fr. Charles Anthony

This was followed by a heartfelt Vote of Thanks delivered by Dr. Seema Nehete, who conveyed sincere appreciation to everyone who contributed to the successful organization of INNOVEX 2026. She expressed gratitude to the esteemed Chief Guest, Judges, Heads of the Departments, Deans, faculty members, project coordinators, project guides, Mr. Yogendra, staff and the management for their constant support, guidance, and encouragement throughout the event. A special thanks to all the student volunteers of SE and TE of all the four departments who worked tirelessly to make this event successful.



Vote of Thanks by Dr. Seema Nehete

The success of INNOVEX 2026 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



The Bombay Salesian Society
Don Bosco Institute of Technology, Mumbai-400070



FACULTY CO-ORDITATORS

Prof. Mahesh Rajwade, Prof. Cleta Pereira, Dr. Seema Nehete,
Prof. Poonam Chakraborty, Prof. Uday Nayak

INNOVEX 2026 - Project Coordinators

Report Prepared By:

Dr. Seema Nehete- Project Coordinator, Computer Dept.
Prof. Poonam Chakraborty - Project Coordinator, EXTC Dept.
Prof. Udaychandra Nayak - Project Coordinator, IT Dept.
Prof. Cleta Pereira and Prof Mahesh Rajwade - Project Coordinators, Mech Dept.

Report Approved By:

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