The Bombay Salesian Society's
Don Bosco Institute of Technology, Mumbai

(An Autonomous Institute Affiliated to Mumbai University)

Department of Electronics and Telecommunication
Report on – InnoQuest 2025-26

Title: InnoQuest 2025-26 a Mini Project Exhibition/Competition
Date: ***31st Oct 2025***
Time: *9am to 4pm*
Venue: *Lab 4, Lab 6 , Lab7, 1st Floor, CWIng*
Target Audience: FE/SE EXTC/BE EXTC
No. of Participants Present: ***72 from TE EXTC***
Faculty Coordinator: Aparna M. Telgote

Objectives:

- **Showcase Creativity and Innovation:** To provide a platform for students to demonstrate their innovative and technical abilities through project-based learning.
- **Encourage Practical Application:** To motivate students to apply theoretical concepts to real-world problems and develop working prototypes.
- **Inspire Younger Students:** To create enthusiasm and interest among FE students by exposing them to advanced project work in the EXTC domain..

Event Overview

The **Department of Electronics and Telecommunication Engineering (EXTC)** at **Don Bosco Institute of Technology (DBIT)** organized **InnoQuest 2025–26**, a Mini Project Exhibition and Competition, on **31st October 2025**.

The event began at **9:30 am** with an **inauguration ceremony by Fr. Mylin Noronha sdb. Assistant Director DBC and Administrator, DBCL .** He encouraged students to innovate and integrate practical learning with theoretical understanding.

The exhibition continued until **12:30 pm**, followed by a **valedictory function at 2:30 pm**, where the best-performing teams were felicitated for their creativity and innovation.

A total of 72 students from Third Year EXTC **participated, presenting** 19 innovative projects **across domains such as** IoT, Embedded Systems, Automation, Communication, and Health Monitoring**. . The evaluation was carried out by a** panel of judges comprising faculty members and final-year (BE) students**, who assessed the projects based on innovation, technical implementation, and presentation skills.**

The event provided an excellent opportunity for students to showcase their skills, teamwork, and problem-solving abilities. Faculty, visitors, and industry experts appreciated the students' work and interactive presentations.

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Outcomes

- **Innovation and Creativity Displayed:** Students showcased 19 unique projects addressing current technological and social challenges.
- **Collaborative Learning:** The exhibition fostered teamwork, interdisciplinary thinking, and technical discussions.
- **Motivation for Juniors:** FE and SE students were inspired to develop their own projects and participate in future editions of InnoQuest.

Prizes and Recognition

A total of 19 teams from the EXTC Department **participated in the exhibition. The event concluded with a** prize distribution ceremony held in Monidini Hall, 4th Floor, C Wing**, to recognize the most outstanding projects. The** top three teams **were felicitated with** cash prizes of ₹3000, ₹2000, and ₹1000 **for securing the** first, second, and third places **respectively, in appreciation of their** dedication, innovation, and technical excellence**.**

Rank	Group No.	Roll No.	Name of Student	Project Title
1st	13	30	Paktekar Mrunmai Ramesh	**IoT Based Smart Inhaler**
		12	Dewoolkar Kripa Seema	
		35	Puranik Aryan Milind	
		15	Gidh Saeesh Rahul	
2nd	2	18	Jain Yashvi Kishor	**Care-Talk**
		38	Saha Anu Arunkumar	
		45	Tare Dhruv Rahul	
		46	Vipaak Gaikwad Sudheer	
3rd	19	—	Nabeela Ansari	**IoT-Enabled Weather Station using ESP32**
		—	Prathamesh Yerekar	
		20	Jamnekar Vishakha	
		32	Sushant Patil	

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Feedback Summary

The judges and faculty members appreciated the technical depth, teamwork, and creativity displayed by students. The projects demonstrated strong conceptual understanding and a passion for innovation. The event successfully promoted hands-on learning and strengthened the project culture in the EXTC Department.

Invite:



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Event Poster:



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Rubric Sheet:

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Department of Electronics and Telecommunication Engineering
AY: 2025-2026 (Odd Semester)
InnoQuest'25

Criteria (Mapped to POs)	4 Marks	6 Marks	8 Marks	10 Marks
Problem Identification & Planning (PO1, PO2, PO3)	Problem is vaguely defined; limited understanding of objectives or scope.	Problem identified but objectives partially measurable; limited background study.	Problem well-defined with achievable goals and structured plan.	Real-world/social problem clearly identified with strong planning, feasible timeline, and clear objectives.
Methodology, Analysis & System Design (PO3, PO4, PO5)	No comparison of proposed solution with existing systems; weak implementation and poor component selection.	Partial analysis of existing systems; implementation incomplete; basic component selection without justification.	Good understanding of STM32/ESP32 integration, coding logic, and circuit design; mostly justified.	Comprehensive analysis and comparison with existing systems; effective STM32 implementation; components well-justified and integrated into an efficient, complete system design.
Social / Environmental / Industrial Relevance (PO6, PO7)	Weak connection to real-world or social issues; minimal benefit.	Addresses a relevant issue but lacks clear measurable impact.	Demonstrates social/environmental benefit with partial validation.	Strong, sustainable, and measurable social/environmental/industrial impact clearly demonstrated.
Working Model / Functionality (PO3, PO5, PO11)	Model incomplete or not functional.	Model partially working with limited integration.	Functional prototype with minor errors or inconsistencies.	Fully functional STM32/ESP32-based prototype demonstrating accuracy, reliability, and seamless integration.
Presentation & Teamwork (PO9, PO10, PO12)	Disorganized presentation; weak communication and coordination; no evidence of self-learning or exploration beyond guidance.	Average presentation; limited visuals; some teamwork; little initiative in learning new tools or technologies.	Clear, confident presentation with good teamwork; demonstrates partial independent learning and use of external resources.	Excellent, professional presentation; strong collaboration; shows initiative in continuous learning — explores new tools, references, or technologies beyond curriculum.

Panel information

Class	Group No.	Mini Project Title	Panel No	Email id 1	Email id 2	Email id 3	Email id 4
SE EXTC	1	Magnet Detector Using Hall Effect Sensor	1	namita@dbit.in	kishoreb@dbit.in	122yashi0010@dbit.in	122harsh0018@dbit.in
SE EXTC	2	RF Detector Transmitter and Receiver	1	namita@dbit.in	kishoreb@dbit.in	122yashi0010@dbit.in	122harsh0018@dbit.in
SE EXTC	3	Safe Sight	1	namita@dbit.in	kishoreb@dbit.in	122yashi0010@dbit.in	122harsh0018@dbit.in
SE EXTC	4	Automatic Fire Detector System	1	namita@dbit.in	kishoreb@dbit.in	122yashi0010@dbit.in	122harsh0018@dbit.in
	5	Automatic Temperature Monitoring and Control System for Terrace Gardening	1	namita@dbit.in	kishoreb@dbit.in	122yashi0010@dbit.in	122harsh0018@dbit.in
SE EXTC	6	Count Your Wash: Hygiene Automation using 555 Timer for Timing Control and IR Sensor for Water Flow	2	ashwinikotrashetti@dbit.in	hemalata@dbit.in	122samruddhi0004@dbit.in	122aditya0001@dbit.in
SE EXTC	7	Li-Fi Data Transfer System	2	ashwinikotrashetti@dbit.in	hemalata@dbit.in	122samruddhi0004@dbit.in	122aditya0001@dbit.in
SE EXTC	8	Eddy Current Braking System	2	ashwinikotrashetti@dbit.in	hemalata@dbit.in	122samruddhi0004@dbit.in	122aditya0001@dbit.in
SE EXTC	9	Lock System Using Counter ICs	2	ashwinikotrashetti@dbit.in	hemalata@dbit.in	122samruddhi0004@dbit.in	122aditya0001@dbit.in
SE EXTC	10	Highway Safety System – Motion Triggered Road Lighting and Vehicle Alert	3	lakshmikiyer90@gmail.com	madhavi@dbit.in	122akash0006@dbit.in	123soham0002@dbit.in
SE EXTC	11	Mobile Phone Button Charger Using Solar	3	lakshmikiyer90@gmail.com	madhavi@dbit.in	122akash0006@dbit.in	123soham0002@dbit.in
SE EXTC	12	Energy Saving Home Appliances	3	lakshmikiyer90@gmail.com	madhavi@dbit.in	122akash0006@dbit.in	123soham0002@dbit.in
SE EXTC	13	Automatic Illuminating Pathway	3	lakshmikiyer90@gmail.com	madhavi@dbit.in	122akash0006@dbit.in	123soham0002@dbit.in
SE EXTC	14	Flood Detection System	4	ankur@dbit.in	aparna@dbit.in	122aftabalam0057@dbit.in	122aditya0034@dbit.in
SE EXTC	15	Smart AquaTech – Intelligent Water Level Management Solution	4	ankur@dbit.in	aparna@dbit.in	122aftabalam0057@dbit.in	122aditya0034@dbit.in
SE EXTC	16	Variable DC Power Supply	4	ankur@dbit.in	aparna@dbit.in	122aftabalam0057@dbit.in	122aditya0034@dbit.in
SE EXTC	17	Soil Moisture Based Irrigation System	5	poonam@dbit.in	aparna@dbit.in	122prathamesh0002@dbit.in	122arpita0003@dbit.in
SE EXTC	18	Water Turbidity Detector	5	poonam@dbit.in	aparna@dbit.in	122prathamesh0002@dbit.in	122arpita0003@dbit.in

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List of projects which were exhibited:

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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING
AY 2025-2026 (Odd Semester)

InnoQuest'2025

List of Mini Projects

Class: TE

Sr. No.	Group No.	Title of Mini Project	Roll No	Name of Student	Name of Project Guide	Poster Displayed in
1	1	Offline Communication System	5	Botle Sumit Jagdish	Prof. Aparna M.Telgote	EXTC LAB 6
			41	Shejwal Janhavi Dilip		
			25	Mascarenhas Blossom Brian		
			42	Shetty Nikhil Dayananda		
2	2	Care-Talk	18	Jain Yashvi Kishor	Prof. Aparna M.Telgote	EXTC LAB 6
			38	Saha Anu Arunkumar		
			45	Tare Dhruv Rahul		
			46	Vipaak Gaikwad Sudheer		
3	3	Mobile Controlled Robotic Arm	33	Pawar Sneha Suresh	Prof. Aparna M.Telgote	EXTC LAB 6
			8	Dafedar Ibrahim Masood		
			29	Nyalapelli Kartik Yadagiri		
			28	Nellithanath Daniel Joseph		
4	4	LoRa based rescue system with live mapping	16	Gokhale Harshali Narendra	Prof. Aparna M.Telgote	EXTC LAB 6
			19	Jaiswal Yukita Jagdish		
			26	Mediboina Pritika Krishnarao		
			14	Gaonkar Samiksha Narayan		
			9	Dalvi Amey Sandip		

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5	5	IRIS Mesh Network Rescue System			Prof. Aparna M.Telgote	EXTC LAB 6
			17	Hande Netra Nitin		
			43	Shinde Jashith		
			24	Labde Kapil Shivnath		
6	6	Energy Monitoring System and Automation	49	Jangam Aayush Shailesh	Prof. Aparna M.Telgote	EXTC LAB 6
			2	Badhe Atharva Sanjay		
			3	Bait Nirmiti Babu		
			71	Harad Harshad Ramesh		
7	7	AI Enhanced Smart Air Quality & Pollution Monitoring and Prediction System	54	Khan Mohd. Moin Afroz	Prof. Aparna M.Telgote	EXTC LAB 4
			50	Salunke Sakshi Santosh		
				Mishra Soham		
			23	Khan Mohammed Shayan		
8	8	e-Mandi Live Price Display	74	Munj Kanishq Ramdatt	Prof. Aparna M.Telgote	EXTC LAB 4
			59	Kharat Prabhat Prakash		
			55	Hiremath Abhiroop Vijay		
			76	Kanse Mangesh		
9	9	Smart Aquarium pH & Water Quality Monitor using ESP32		Adharsh Dudhkar	Prof. Aparna M.Telgote	EXTC LAB 4
				Myron Dias		
			67	Bhalerao Akanksha		
			56	Abhishekh Dube		
10	10	IoT Based Circuit Breaker using	64	Ansari araf Asif	Prof. Aparna	EXTC LAB 4

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		STM32	7	Chourasiya Ayush	M.Telgote	
				Mebin Kurishinkal		
			63	Shaikh Mohammad Maroof		
11	11	Smart Plastic Bottle Collection & Reward System	73	Khan Ayan Rizwan	Prof. Aparna M.Telgote	EXTC LAB 4
			77	Mulla Fahaam Aziz		
			72	Dikonda Vinay Prabhakar		
			62	Shaikh Mohdtaheef		
12	12	Water Quality Monitoring & Purifier	10	Deepak Ramesh Sakha	Prof. Aparna M.Telgote	EXTC LAB 4
			11	Deshmukh Anant Hemant		
			39	Salunkhe Jai Mangesh		
			40	Sharma Raman Lalchand		
13	13	IoT Based Smart Inhaler	30	Paktekar Mrunmai Ramesh	Prof. Aparna M.Telgote	EXTC LAB 7
			12	Dewoolkar Kripa Seema		
			35	Puranik Aryan Milind puranik		
			15	Gidh Saeesh Rahul		
14	14	Robotic Air Quality Monitoring System	44	Siddique Mohd Atif	Prof. Aparna M.Telgote	EXTC LAB 7
			34	Philse Shravan		
			36	Rai Harsh Santosh		
			47	Yadav Vinayak Satish		
15	15	Automated Pest Control for Agriculture	68	Patilkadan Jancy	Prof. Aparna M.Telgote	EXTC LAB 7

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			13	Gajula Priya Venkatesh		
			22	Kamble Apurva Pradip		
			4	Bevanur Prajwala		
16	16	Smart IV Monitoring for Hospitals	66	Kurlekar Om	Prof. Aparna M.Telgote	EXTC LAB 7
			69	Patil Ishant Ishwar		
			27	Nadar Aakash		
			78	Pardeshi Parth		
17	17	Fall Detection for Elderly People	31	Parimi Gunavardhan	Prof. Aparna M.Telgote	EXTC LAB 7
			70	Rajguru Pooja		
				Garige Sandesh		
				Darnajaf Sayed		
18	18	Automatic Waste Segregation System using STM32	53	Raskar Akshay Sanjay	Prof. Aparna M.Telgote	EXTC LAB 7
			51	Auti Pratham Ganesh		
			57	Qureshi Mohd Anas		
			56	Jadhav Eshan		
19	19	IoT-Enabled Weather Station using ESP32		Nabeela Ansari	Prof. Aparna M.Telgote	EXTC LAB 7
				Prathamesh Yerekar		
			20	Jamnekar Vishakha		
			32	Sushant Patil		

Event Photographs:

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