



Report on

Technical Sessions on Quantum Technologies and Standardization

1. Event Overview

The BIS Club – Emerging Technologies at Gujarat Technological University – School of Engineering and Technology (GTU-SET) successfully organized Technical Sessions on Quantum Technologies and Standardization under the aegis of the Bureau of Indian Standards (BIS).

The event was held on 24th July 2025 from 10:30 AM onwards at Aryabhata Hall, GTU-SET. It was attended by undergraduate students from Computer Engineering and Electronics & Communication Engineering along with faculty members. The program aimed to create awareness about quantum technologies, their applications, and the importance of standardization in emerging technology domains.

2. Coordinator & Organizing Body

- **Coordinator:** *Prof. Dipak Dabhi, Assistant Professor, GTU-SET*
Prof. G. D. Makwana, Associate Professor, GTU-SET
- **Convenor:** *Prof. J. A. Amin, Professor, GTU-SET*
- **Organized By:** BIS Club – Emerging Technologies, GTU-SET under the Aegis of the Bureau of Indian Standards (BIS) With *GTU-School of Engineering and Technology*.

3. Session Expert

Shri Sailendra Kumar Verma : Scientist–C and Deputy Director, Electronics & IT Department, Bureau of Indian Standards (BIS) Ministry of Consumer Affairs, Food & Public Distribution, Government of India. Shri Verma is responsible for advancing India’s standardization initiatives in frontier technologies. He serves as Member Secretary of LITD 38 – Quantum Technologies and Applications and represents India in the IEC/ISO Joint Technical Committee 3 (JTC 3) – Quantum Technologies. His expertise spans quantum computing, communication, and metrology, alongside leadership roles in BIS committees on E-Learning, Biometrics, and Magnetic Components. He also contributes as an Indian expert in ISO/IEC committees on Biometrics and Learning Technologies, playing a key role in aligning India’s interests with global standards.



Gujarat Technological University

(A+ Grade Accredited by NAAC)

School of Engineering and Technology



Under the Aegis of Bureau of Indian Standards

Organizes

Technical Sessions on Quantum Technologies and Standardization



Mr. Sailendra Kumar Verma,
Scientist-C and Deputy Director,
Electronics and IT Department,
Bureau of Indian Standards (BIS)

No.	Sessions	Audience
1.	Computer Engineering Domain	UG CE & PG
2.	Electronics & Communication Domain	UG EC & PG
3.	Research Scholar & Faculty	---

Open for UG and PG Students



Scan for Registration

Date: 24th July 2025

Time: 10:30 AM Onwards

Coordinators: Prof. G. D. Makwana, Prof. Dipak Dabhi

Convenor: Prof. J. A. Amin





4. Key Highlights of the Session

Introduction to Quantum Technologies & Standardization Efforts

- Fundamentals of quantum computing, quantum communication, and quantum metrology.
- BIS's role in creating national and international standards.
- India's participation in IEC/ISO technical committees for emerging technologies.

Emerging Technologies & Need for Standards

- Ensuring interoperability, security, and quality in quantum-based systems.
- Standardization trends in AI, Blockchain, IoT, and Cybersecurity alongside quantum technologies.
- Adapting global standards to meet India's needs.

Challenges in Quantum Standardization

- Technical complexity and rapid technological evolution.
- Cybersecurity implications of quantum computing.
- Global harmonization of protocols and practices.
- Limited academic infrastructure for quantum experimentation.

Future of Quantum Standardization & Opportunities

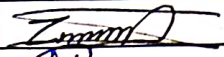
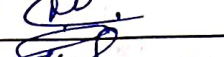
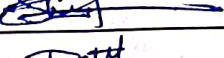
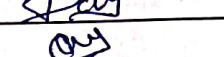

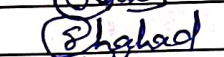
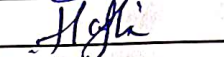
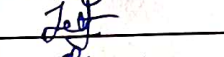
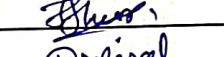
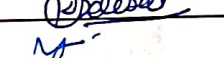


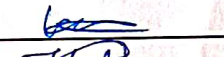

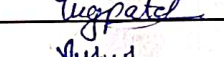
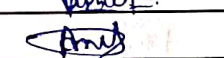
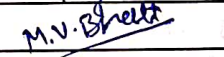
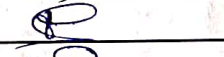
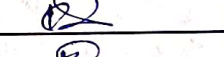


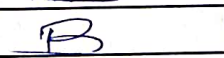








- Collaboration between BIS, academia, and industry for research and policy alignment.
- Student involvement in BIS technical committees.
- Career pathways in technology governance, compliance, and standardization.

5. Attendance & Participation

The event was attended by a total of 87 participants, comprising undergraduate students from Computer Engineering and Electronics & Communication Engineering, along with faculty members. The interactive Q&A session encouraged discussions on how students can become members of BIS committees, integrate their research projects with BIS standardization work, and explore opportunities for international collaboration in emerging technology standards.

The session concluded with the understanding that active engagement in standardization activities will not only enhance academic and research contributions but also strengthen India's role in shaping global technological advancements.

GUJARAT TECHNOLOGICAL UNIVERSITY				
SCHOOL OF ENGINEERING AND TECHNOLOGY				
Technical Sessions on Quantum Technologies and Standardization				
Date: 24th July 2025, Time: 10:30 AM to 11:30 PM, Venue: Aryabhata Hall				
ATTENDANCE SHEET				
Sr.No	Participant Name	Branch	Semester	Signature
1	Parman Devanath J.	EC	1 st	Parmanath
2	Vedant V. Patel	CE	1 st	Vedant
3	Patel Jyoti P.	CE	1 st	Jyoti
4	Patel Manav K.	CE	1 st	Patel manav K.
5	Zala Aniruddhsinh N.	CE	1 st	A.N.Z.
6	Pranav Jain.	EC	3 rd	Pranav
7	Patel Pal B.	CE	3 rd	Pal
8	Patel Khavil B.	CE	3 rd	Patel
9	Ambalita Pirum	CG	3 rd	Ambalita
10	Krish H. Prayapati	CE	3 rd	Krish
11	Jenish Rungani	CE	3 rd	Jenish
12	Muneer Khaleel	CE	3 rd	Muneer
13	Adityendra Jha	CE	1 st	Aditya
14	Krupesh Pathariya	EC	1 st	Krupesh
15	Yasar Siddiqui	CE	1 st	Yasar
16	Vraj M Dudhat	CE	1 st	Vraj
17	Manav T. Patel	EC	1 st	Manav
18	Sinod Kumar Kahar	CE	1 st	Sinod
19	Divy Patel M.	CE	3 rd	Divy
20	Vedant Chauhan	CE	3 rd	Vedant
21	Krish Panchaj	CE	3 rd	Krish
22	LAV PATEL	E.C.	3 rd	L.S. Patel
23	Makwana Vir	EC	3 rd	Makwana
24	Harsh Prayapati	EC	3 rd	Harsh
25	Darsh Debariya	EC	3 rd	Darsh
26	Mahir Patel	EC	3 rd	Mahir
27	Kashyap Panchaj	EC	3 rd	Kashyap
28	Pratham Modi	EC	3 rd	Pratham
29	Bhaxudva Ankit	CE	3 rd	Ankit
30	Raj Rishanliya	CE	3 rd	Raj

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31	Zelalem Markos	CE	3rd	
32	MIT Panchal	EE	3rd	
33	Parmar Smit	CE	3rd	
34	Datt B. Patel	CE	3rd	
35	Poojapati Am	CE	3rd	
36	Kausal Joshi	CE	3rd	
37	Pathan Shahad	CE	3rd	
38	Trivedi Hashil	CE	3rd	
39	Parmar Jeet	CE	3rd	
40	Ahyyam Ishum	CE	3rd	
41	Khush Desai	CE	3rd	
42	Min Thet Tun	CE	3rd	
43	Punchul Zeel S.	C.E	3rd	
44	Pamuriya Jitral P.	C.E	3rd	
45	Kanan Bhausaar	CE	3rd	
46	Rathod Het S.	CE	3rd	
47	Patel Yug	CE	3rd	
48	Panchal Vishvesh	CE	3rd	
49	Patel Akshata	CE	3rd	
50	Bhatt Mansvi	CE	3rd	
51	Kamdar Kaavya	EC	3rd	
52	Fakih Mariya	EC	3rd	
53	Patel Suchi	EC	3rd	
54	Patel Khushi	EC	3rd	
55	Bhalodiya Yashvi	EC	3rd	
56	Majithiya Tania	EC	3rd	
57	Tapale Ishwari	EC	3rd	
58	Parmar Teushli	CE	3rd	
59	Patel Shreya	CE	3rd	
60	Bhatt Dhivani	CE	3rd	

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61	Vohera Mahi Parashkumar	BE-EC	3	Vohera
62	Patel Krisha Ankur	CE	3	Patel
63	Patel Astha Manishkumar	BE-CE	3	Patel
64	Rajput Dhvani Rajkumar	BE-CE	3	Dhvani
65	Agrawal Mahak R.	BE-CE	3	Mahak
66	Badi Reza H.	BE-CE	3	Reza
67	Patel Manasree	BE-CE	3	Manasree
68	Shreya Mishra	BE-CE	1st	Shreya
69	Vora Gargal S.	BE-CE	3rd	Gargal
70	Krishna J. Prajapati	BE-CE	3	Krishna
71	Chauda Dhruvi M.	BE-CE	3	Dhruvi
72	Crohil Tahnavi S.	BE-CE	3	Tahnavi
73	Kushi Gauri	BE-CE	3	Kushi
74	Haman Abdullah Othifa	ME-IOT	3	Haman
75	Patel Samjani H.	BECE	5	Patel S.H.
76	Purva L. Vaghela	BE-CE	5	Purva
77	Vaidi H. Shingala	BE-CE	1	Vaidi
78	Priyanka Rani Das	BE-CE	1	Priyanka
79	Bhakti Viradani A.	BE-EC	1	Bhakti
80	Shite Rani Sarkar	BE-CE	1	Shite
81	Kashish K. Prajapati	BE-CE	1	Kashish
82	Suthar Dhashti A.	BE-CE	1	Dhashti
83	Prajapati Yash B.	BE-CE	1st	Yash
84	Manshvi Patel	CE	3rd	Manshvi
85	Heli Pansuriya	CE	3rd	Heli
86	Sudhi Ruppreya	CE	3rd	Sudhi
87	Roshan Samkhut.	CE	3rd	Roshan
88	Prof. Himani Prajapati	CE	-	Himani
89	Prof. Anamika Mittal	CE	-	Anamika
90				