

Dr. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY



Bureau of Indian Standards (BIS) students' Club



Report on Technical Sessions & students awareness program, 9th and 10th 24

Two days Technical sessions and BIS standard Awareness program under the aegis of BIS students' Club Dr. Babasaheb Ambedkar Technological University, Lonere has been successfully conducted during 9th and 10th November 2024. Ms. Neha Yadav, Scientist D (Joint Director) Standards Coordination & Monitoring Department (SCMD), Bureau of Indian Standards (BIS), New Delhi has engaged the technical sessions quite effectively and comprehensively. Mr. Sahil Yadav, Standards Promotion Officer, Bureau of Indian Standards (BIS), Mumbai Branch Office II, Mumbai was also present and has given his input about the standards.



Day 1 (09/12/2024) - Sessions and Activities:

The event started with the registrations of the students with the registration kits followed by the felicitation of the Ms. Neha Yadav, Scientist D (Joint Director) Standards Coordination & Monitoring Department (SCMD), Bureau of Indian Standards (BIS), New Delhi and welcome of Mr. Sahil Yadav, Standards Promotion Officer, Bureau of Indian Standards (BIS), Mumbai Branch Office II, Mumbai. Around 300 plus students were present for the event.

The session began with an inaugural speech by Dr. Neeraj Agrawal (BIS Nodal officer) of Dr. Babasaheb Ambedkar Technological University, who emphasized the importance of standards in academic and industrial growth followed by introductory remarks by Dr. H. N. Warhatkar, HoD Mech.. The inauguration sessions was concluded by the Vote of thanks by Dr. Harsh Shrivastava Head plastic and polymer and Faculty advisor BIS club, Diploma wing.





Dr. Neeraj Agrawal

BIS Nodal Officer



Dr. Hemant Warhatkar

HoD Mech. Engg.



Prof. Prashant Agwane

Faculty Co-Ordinator



Dr. Harsh Srivastava

Head, Plastic & Polymer

Faculty Adviser BIS Student's Club

Ms. Neha Yadav, Scientist D (Joint Director) Standards Coordination & Monitoring Department (SCMD), Bureau of Indian Standards (BIS), New Delhi. was present to deliver the session as an expert from the Bureau of Indian Standards (BIS):



In the first session the Ms. Neha Yadav introduced various major topics during the sessions such as Overview of Bureau of Indian Standards (BIS), Basic concept of standardization and Good Practices for Standardization. She initiated the session by giving overview of Bureau of Indian Standards (BIS) which was established on 6th January 1947 and got statutory status in 1987. She also mentioned that Bureau of Indian Standards (BIS) became one of the largest National Standards Body of the world by the Bureau of Indian Standards (BIS) Act 2016, actively represents India in International Organization of Standards (ISO) &

International Electrochemical Commission (IEC).

She talks about basic concept of standardization, which is Standardization is the process of developing, promoting and possibly mandating standards-based and compatible technologies and processes within an industry. Technology standards focus on ensuring quality, consistency, compatibility, interoperability and safety. The Committee structure is BIS has been providing traceability and tangibility benefits to the national economy in a number of ways – providing safe reliable quality goods; minimizing health hazards to consumers; promoting exports and imports substitute; control over proliferation of varieties, etc.,



After initial two technical sessions, BIS standard promotions activities/events such as STANDATD FORMATION, POSTER PRESENTATION, and REEL MAKING were demonstrated by the students participants and BIS club members. Mr. Sahil Yadav, Standards Promotion Officer, Bureau of Indian Standards (BIS), Mumbai Branch Office II, Mumbai has appreciated the participation and efforts taken by the students.



Mr. Sahil Yadav, Standards Promotion Officer, Bureau of Indian Standards (BIS), Mumbai Branch Office II, Mumbai.

Glimpses of Activities:



With the short refreshment break, she explained the World of Indian standards and their formations for a wide range of products and services. BIS's work helps ensure that products are safe, reliable, and of good quality, which benefits consumers, the industry, and the national economy. BIS also supports government initiatives like Swachh Bharat Abhiyan, Digital India, and Make in India and also explain standards regarding all core branches of engineering like Mechanical, Electrical, Chemical, Civil, Computer, Information and technology etc., During her session she discussed about the example of Standardization in field of IT sector by discussing Indian Standards (IS)/(International Organization of Standards) ISO/International Electrochemical Commission (IEC) IS/ISO/IEC 27032:2023 – Cyber Security-Guidelines for Internet security as one of the big achievement by the BIS.



She also explains about the international standards he Bureau of Indian Standards (BIS) is a founder member of the International Organization for Standardization (ISO), the world's largest developer of voluntary international

standards. BIS works with ISO to develop international standards by participating in technical committees, sub-committees, and working groups. BIS also aligns its standards formulation process with ISO's relevant standards. Management System Certification: BIS offers certification schemes for various management systems, including quality management, environmental management, occupational health and safety, food safety, and more. National System of Standardization (NSS): BIS operates the NSS scheme, which began during the XIth Plan. International standards help facilitate international trade, promote global interoperability, and provide access to global markets for manufacturers.

Next topic she covered was Conformity Assessment and Laboratory Operations in which she talks about The Conformity Assessment Schemes of BIS provides confidence to consumers about Quality, Safety and Reliability of products and ensures Consumer Protection.

- BIS operates a variety of schemes to assess the conformity of products and services to Indian standards. These schemes include:
- **Product Certification Scheme:** Allows licensed manufacturers to use the BIS standard mark (ISI mark) on their products that meet Indian standards
- **Compulsory Registration Schemes:** Requires manufacturers to register and self-declare that their products meet Indian standards
- **Lot Inspection:** Requires BIS to inspect each batch of certain products before they are released
- **Foreign Manufacturers Certification Scheme (FMCS):** Allows BIS to certify products imported into India, especially those that require compulsory certification

BIS has laboratories that test products for compliance with Indian standards. These laboratories test for chemical, microbiological, electrical, and mechanical requirements. BIS also has a Laboratory Recognition Scheme (LRS) that recognizes outside laboratories for testing. One of the main pillars of conformity assessment is testing of products to ascertain its conformity to relevant Indian Standards. BIS has established laboratories in the country to cater to the testing need of samples generated from its Conformity Assessment Schemes. BIS has recognized 293 labs, which include reputed R&D organizations, technical institutions, Government labs and labs in private sector. The services of such laboratories are utilized by BIS. To demonstrate its commitment to quality, and to keep pace with the National and International good laboratory practices, BIS laboratories at Sahibabad, Mumbai, Kolkata, Chennai, Mohali, Bengaluru, Patna and Guwahati have been accredited by the National Accreditation Board for Testing and Calibration Laboratories (NABL) as per ISO/IEC 17025.



Then some activities are done:



The day was concluded by the executive summary of the day activities and technical sessions by Neeraj Agrawal (BIS Nodal officer).

Day 2 (10-12-2024) – Sessions and Activities:

On the second day session starts at 10:30 am Ms. Neha Yadav starts the session with some interesting topic Discussion on BIS certification schemes such as ISI Mark, Hallmark, and Compulsory Registration Scheme (CRS). She further made students familiar with the good practices of Standards by discussing the principles of Standards. As a part of principles, she mentioned about why is transparency important, why is openness important, what is coherence in standardization, what is the relevance and effectiveness of standards according to national needs and not to distort. She broadly explained the Selling non-hallmarked gold jewelry can lead to penalties and legal consequences under the BIS Act and Rules. It is illegal to sell gold jewelry in India without the BIS hallmark. She gave a live demonstration of revamped BIS's Standardization Portal. She showcased the latest digital initiatives and platforms developed to streamline the standardization process and making it more accessible and efficient. Ms. Yadav illustrated how these tools are designed to facilitate greater participation from academia and other stakeholders by providing easy access to draft standards, enabling the submission of comments and suggestions, and offering a range of other interactive features to enhance collaboration.



A live quiz competition was conducted which was very interesting for students where students were asked the questions. The questions were based on the sessions covered. The sessions were apprehensive for the students and lot of insights were gained by them.



Ms. Neha has also explained and put before the career opportunities in the Bureau of Indian Standards. Bureau of Indian Standards, the National Standards Body of India, seeks to engage students (Undergraduate and above) as "Interns", who would be given exposure to various activities of BIS. The Interns would be expected to supplement the knowledge capital of BIS through collection, collation and analysis of data in respect of standardization, conformity assessment, testing, consumer engagement and stakeholder expectations. The Scheme is envisaged to be mutually beneficial to students and BIS. BIS would benefit in the form of getting fresh thoughts, perspectives and updated technical knowledge from the young generation. For the "Interns", the exposure to the functioning of BIS and understanding of quality ecosystem, which would be an add-on in furthering their own career goals in the Industries or International Organizations.

The session received overwhelmingly positive feedback from participants. Many appreciated Bis's practical advice and relatable examples. The interactive format allowed attendees to engage directly with the speaker, making the session highly impactful.

The session was ended with vote of thanks by Prof. Prashant Agwane faculty coordinator BIS.

This program was organized with an objective to keep focus of students on co-curricular activities and gain additional knowledge in line with their curriculum. Program was arranged by BIS student's club Dr. Babasaheb Ambedkar Technological University Lonere.

BIS STUDENT'S COUNCIL DBATU



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Member



Member

Prof. Prashant Agwane

Faculty, Coordinator BIS Club, Faculty Mech Eng

Dr. Harsh Srivashtave

Faculty Advisor, BIS Students' Club Diploma wing, Head (P&P)

Prof. (Dr.) Neeraj Agrawal

BIS Nodel Officer, Prof. Mech Engg