



Bureau of Indian Standards A Report on Current and New Registration Convention

Subject: Report on **Annual Convention of BIS** with Standardization Chairs/Nodal faculties of MoU Partner Institutes

Venue: Indore Marriott Hotel, Indore

Date: 08 & 09 April 2025

BIS organized a Convention with Standardization Chairs and Nodal faculties of MoU Partner Institutes. The event took place at Indore Marriott Hotel on 08 & 09 April 2025. **Sixty-Three** delegates from **Fifty-Eight** MoU partner institutes participated in the convention. The convention was chaired by Shri Pramod Kumar Tiwari (IAS), Director General BIS; accompanied by senior BIS officers Shri Rajeev Sharma (DDG Standardization) and Shri Chandan Bahl (DDG International Relations). The convention was aimed to strengthen the collaboration between BIS and MoU Partner Institutes by fostering academic engagement in the standardization ecosystem.

Day 1 (08/04/2025) - Sessions and Activities:

The event started with traditional Lamp lighting ceremony followed by rendering of Manak Geet.



Shri Rajeev Sharma, in his welcome address, highlighted on the growing academic engagement in the standardization ecosystem of the country. He emphasized the omnipresence of standards in our daily lives and highlighted their critical role in ensuring quality, safety and global competitiveness and underscored the indispensable role of academia in driving research, innovation, and standard development. Calling for action-oriented collaboration, he urged participants to reflect on the journey of MoU Partner Institutions and contribute meaningfully to the deliberations.



In his inaugural address, Shri Pramod Kumar Tiwari reflected on the remarkable journey of collaboration with MoU partner institutes which started three years ago with just one institute and has now expanded to over 100 institutes. He emphasized that this partnership is not a BIS project alone, but a shared national mission to embed a culture of quality and standardization across academia. Acknowledging the evolving mindset among institutions, he highlighted how the dialogue around quality and standards is gaining momentum. He urged stakeholders to

leverage the MoU framework more effectively by integrating Indian Standards into the teaching-learning process, organizing workshops and exposure visits, and encouraging students to engage with real-world industrial applications. He concluded by reaffirming BIS's commitment to supporting innovative initiatives and making this collaboration a cornerstone of India's future readiness in a complex and competitive global economy.

Shri Chandan Bahl, while addressing the participants, reflected on the journey of the BIS Academia collaboration which began in 2022 with the vision of strongly positioning Indian Standards globally. He also focused on the accomplishments of the journey so far, which are a result of the meaningful engagement with Academia. He shared that this comprehensive engagement strategy focused on the three pillars of academic institutions — faculty, research scholars, and students, has led to several impactful outcomes. These include the integration of a



a standardization module in 15 MoU partner institutes, the commissioning of over 130 R&D projects, increased faculty participation in technical committees, creation of BIS corners and academic dashboards in over 50 institutions, and hosting of 32 technical committee meetings in MoU partner institutes. Additionally, 198 Standards Clubs have been formed across 52 institutes to promote

student-led initiatives, and more than 3,400 students from 74 institutes have actively participated in BIS-organized national quizzes. With over 500 student internships planned for 2024–25 and regular interactions between BIS officers and academic stakeholders, the initiative is rapidly evolving into a robust, collaborative platform aimed at embedding standardization into the fabric of academic learning, research, and innovation.

Felicitation Ceremony for Award of Excellence

Five MoU Partner Institutes (IIT Roorkee, SSEC Chennai, NIT Jalandhar, SVCE Chennai, PSNACET Dindigul) were felicitated for their noteworthy performance in carrying out various activities related to BIS as envisaged in the MoU.

SI No	Name of the College	Photos
1	Indian Institute of Technology, Roorkee	
2	Sri Sai Ram Engineering College, Chennai	

3	NIT Jalandhar	 <p>The photograph shows an award ceremony at an Annual Convention. A man in a black shirt and light-colored trousers is presenting a trophy to a man in a blue shirt and dark trousers. A woman in a red sari stands to the left. Other men are standing to the right, some clapping. The background features a banner with the text 'वार्षिक सम्मेलन Annual Convention' and 'BIS MoU Partner Institutes'. Logos of the Ministry of Consumer Affairs, Food and Public Distribution, Government of India, and BIS are visible.</p>
4	Sri Venkateswara College of Engineering, Chennai	 <p>The photograph shows an award ceremony at an Annual Convention. A man in a dark blue suit is presenting a trophy to a man in a white shirt and light-colored trousers. Other men are standing to the right, some clapping. The background features a banner with the text 'वार्षिक सम्मेलन Annual Convention' and 'BIS MoU Partner Institutes'. Logos of the Ministry of Consumer Affairs, Food and Public Distribution, Government of India, and BIS are visible.</p>
5	PSNA College of Engineering and Technology, Dindigul	 <p>The photograph shows an award ceremony at an Annual Convention. A man in a blue suit is presenting a trophy to a man in a blue shirt and dark trousers. Other men are standing to the right, some clapping. The background features a banner with the text 'वार्षिक सम्मेलन Annual Convention' and 'BIS MoU Partner Institutes'. Logos of the Ministry of Consumer Affairs, Food and Public Distribution, Government of India, and BIS are visible.</p>

Group Discussion – 1: Basic Module on Standardization



Indian Institute of Technology Roorkee gave a presentation on the successful introduction of a 4 hour module on Basics of Standardization, for the first year of graduation. They have tried to link the module with placements opportunities for students. Knowledge about addressing sustainability issues through standards helps the students during their placement interviews. The grading of the students will be on continual assessment basis for this module.

Prof Jignesh A Amin from Gujarat Technological University also gave a talk on GTU's efforts to incorporate the course on standardization in the university. IIT(BHU) also informed that they have developed a one credit 13 hours course on basics of Standardization, which will act as a filler course for students to complete their credits. Sri Sai Ram College have also introduced a 1-credit course as part of the skill enhancement curriculum, covering electrical, civil, mechanical, and computer science disciplines.



The presentations were followed by Group Discussions. Following are the Challenges and Suggestions made by the participants wrt introduction of Basic module on Standardization in course curriculum:

Challenges:

1. Each institute need to take approval from senate to introduce the course in the curriculum. Practical challenges like evaluation criteria for the course, deciding credits for the course, assigning the nodal department for the course are faced while preparing the proposals.
2. After introduction of New Education Policy (NEP), the curriculum is already fully loaded, the space for accommodation of this course is difficult to find.

Suggestions for improvement:

1. BIS should approach technical governing bodies like AICTE / UGC to introduce the course in the curriculum of institute. Directions from such bodies will remove the difficulties being faced in taking administrative approvals at each institute for introduction of this course.
2. A certificate course on online platforms like NPTEL, SWAYAM can be hosted. This approach will remove the administrative difficulties in introduction of this course. Also, a standardized content will be delivered to students to achieve the intended objectives.
3. Faculty Development Programmes (FDPs), Curriculum Development Workshops may be conducted by BIS to share the intended objectives and knowledge to be imparted during the course.
4. BIS can give the questions set / questions bank for assessment of this course.

Group Discussion – 2: Discipline wise – Technical Sessions



BIS has prepared 84 modules / presentation for conducting Technical Sessions in the MoU partner institutes. Institutes had given their Annual Plans for conducting the Technical Sessions. Shri Venkateshwara College of Engineering, Chennai, Tamil Nadu and Indian Institute of Technology, Indore gave presentations on their efforts to conduct the discipline wise technical session in their respective institutes. Following are the Challenges and Suggestions for improvement emerged out of the group discussions conducted:

Challenges:

1. As the academic calendar of the institutes are packed with courses, it is difficult to find time to conduct the sessions.
2. Generally, ISO/IEC/ASTM/IEEE standards are referred in reference books / textbooks of the courses. Students study these standards as part of their curriculum. However, corresponding Indian Standards are seldom looked at.
3. Getting students to attend these optional lectures is a challenge.
4. Coordination is a challenge when Technical Sessions are being conducted for different disciplines from the discipline of Nodal faculties.

Suggestions for improvement:

1. Technical Sessions should contain technical content in depth. Introduction to standards, standardization process of BIS can be covered in the Basics of Standardization module.
2. A quiz may be conducted at the end of each of the technical sessions with prizes to motivate the students.
3. Industry experts, who are potential employers for the students, may be approached to conduct such Technical Sessions.
4. Case studies on standards may be prepared and incorporated in the technical sessions for better understanding of the subject.
5. Introducing the Technical Sessions on online platforms like NPTEL.



Group Discussion – 3: Participation in Standards Formulation

Under the MoUs, BIS has introduced various avenues for faculty of the institutes to participate in the standards development process. Faculty can become technical committee members, undertake R&D projects, and join ISO/IEC projects as experts. NIT Jalandhar and Following are the challenges faced by the faculties in using these avenues and suggestions for better collaboration.



Challenges:

1. Over representation of industry in Technical Committees doesn't allow academia to truly voice their stand.
2. As most of the R&D projects are empirical studies, approaching the industries for conducting the plant visit is also a challenge. Industries are reluctant to share their professional data for BIS R&D projects.
3. It is challenging to complete the R&D projects in the duration of 6 months.
4. Although onboarding training is conducted for new TC members, they are unaware of ongoing works in their Committees.

Suggestions for improvement:

1. Administrative aspects like submission of Utilization Certificate may be made easier for timely disbursement of funds and completion of project within timeframe.
2. Duration of the R&D projects may be increased.
3. Submission of Technical Proposals for R&D projects may be made online.
4. Feedback on non-consideration of a R&D proposal for award of projects may be communicated to the proposer.
5. A separate committee-wise orientation session may be conducted for new members to bring them up to speed in the technical committees.
6. Participation of faculties in Technical Committees, undertaking R&D projects of BIS or joining ISO/IEC projects as experts shall be recognized as academic achievement and be considered for their career progression.
7. Support from BIS for industry visit and data collection for R&D projects.
8. Certificate of appreciation on completion of R&D projects may be provided to faculties.
9. BIS may introduce a monthly magazine to showcase the R&D work being carried out across the Technical Department.



Group Discussion – 4: Activating Standards Clubs

PSNA College of Engineering and Technology, Dindigul, Tamilnadu and L D College of Engineering shared their experience on activating the Standards Clubs in their institutes and conducting various activities under the clubs. Following are the challenges and suggestions for improvements have been noted in this vertical:

Challenges:

1. For colleges in remote areas, like NIT Mizoram, it is difficult to identify and arrange the industry visits.
2. Identifying the activities to conduct under the standards clubs for sustained participation of students is a challenge.

Suggestions:

1. Activities conducted under the standards clubs should be linked with employment / placement opportunities for the students.
2. Online quizzes for Standards Clubs may be conducted at regular intervals.
3. Certificate of participation may be issued to students participating in various Standards Clubs activities.
4. A BIS Corner may be installed in libraries of MoU partner institutes. Publications like NBC, NEC and other important standards can be placed there to increase the visibility of BIS.

Group Discussion – 5: Promotional Activities and other initiatives

Sri Sai Ram Engineering College and Rajiv Gandhi University of Knowledge Technologies, Nuzvid shared the promotional activities conducted in their institutes and how the support from BIS was availed. Activities like poster making competitions, Short videos making competitions were conducted in these institutes for promotion of standards.

**Challenges:**

1. There are geographical constraints for some institutes to conduct the industry visits. Cluster of industries may be identified by BIS and shared with institutes to conduct the industry visits.

Suggestions:

1. Taking the reference of student chapters of other international entities like IEEE, ASTM etc., activities for promotion of standards may be conducted.
2. BIS may participate in SMART India hackathon.
3. Students from Standards Clubs may be given preference while allotting the internships at BIS. Along with the CGPA, other factors like area of interest, preliminary test on standards, mock interviews can be considered for selection of students for internships.
4. Guidelines are required for displaying the content on digital display board installed at the MoU institutes.

Day 2 (09/04/2025) - Sessions and Activities:

On the second day of the convention, presentations were made by the participants on how to take forward the collaboration between BIS and MoU partner institutes. Following are the points emerged out of the presentations.

1. BIS should start a journal so that innovation can be published and faculty will also get recognition for contributing content.
2. Competitions at college / regional/ national level may be conducted to engage students
3. Training programmes may be conducted by faculty from good performing colleges to conduct the technical sessions in the colleges who are struggling.
4. Mentors of the Standards Clubs should be faculties with higher administrative positions for smooth across the department operations of the Standards Clubs.
5. NPTEL course on Basics of Standardization and other Technical topics may be prepared for the benefit of students and faculty. These will simplify the process of introduction of above subjects in the curriculum and standard delivery of the content can be made to the students.
6. A study can be undertaken to suggest the equivalent Indian Standards against the international / other standards referred in the reference books, textbooks, lab manuals of institutes.
7. Research scholars can exclusively work on Indian Standards. Projects for review of standards can be undertaken by them. BIS can offer fellowships to such students.
8. Proposals may be invited for writing textbooks related to standards.
9. Elective subjects such as Standards in Mechanical Engineering, Standards in Electrical Engineering can be introduced.
10. BIS can prepare case studies on Standards on how standards can prevent catastrophic failures.
11. Competitions can be held for students on how their research will help in formulation / revision of standards.

In the concluding remarks, the Director General of BIS has invited the faculties to serve as resource source for conducting sessions for training of state government officials. Moreover, BIS is in the process of developing compendiums on standards. BIS is ready to fund the Faculty members and research scholars who are interested in writing these compendiums. . DG, BIS invited Chairs and Nodal Officers to participate in the IEC General Meeting scheduled to be conducted in September 2025. BIS will explore ways to publish a journal which will help in highlighting the work being done in BIS and Academia.

Technical sessions should be tailored to be more relevant for students; and also highlighted that if attendance is optional, participation may be low. BIS acknowledges a shortfall in case studies and invites faculty and students to engage in this area, with financial support available. Additionally, he assured that the exposure visits of standards will be integrated with technical sessions, and BIS will also provide a list of potential industries for collaboration and visits by students



