



BUREAU OF INDIAN STANDARDS

MINUTES

14th MEETING OF 'E-LEARNING' SECTIONAL COMMITTEE, LITD-19 (Virtual meeting)

Date & Time	24 th April 2024, 10:30hrs – 13:00hrs
-------------	--

Chairperson: Dr. N Sarat Chandra Babu, Advisor, DSCI & Former ED, SETS

Member Secretary: Shri Priyanshu Sharma, Scientist 'B' & Assistant Director, BIS

Participants:

S. No.	Organization	Name	Role
1.	DSCI	Dr. N Sarat Chandra Babu	Chairperson
2.	BIS	Mr. Priyanshu Sharma	Member Secretary
3.	C-DAC	Mr. N Satyanarayana	Member
4.	C-DAC	Mr. M. Kumar	Member
5.	ERNET India	Dr. Paventhan Arumugam	Member
6.	IISc Bangalore	Prof. V. Kumaran	Member
7.	IETE	Dr. R D Kharadkar	Member
8.	IGNOU	Dr. A. Murali M Rao	Member
9.	Inflibnet Center	Dr. Abhishek Kumar	Member
10.	Inflibnet Center	Mr. Dinesh Ranjan Pradhan	Member
11.	Inflibnet Center	Ms. Amrita Devi	Member
12.	Intel	Mr. Venkata Narasimharao Nadella	Member
13.	Kannur University	Dr. N S Sreekanth	Member
14.	NIELIT	Dr. Sanjay Kumar Dhurandhar	Member
15.	NIC	Ms Rajani Gupta	Member
16.	STQC	Mrs. Nayantara Shrivastava	Member
17.	TCS	Mr. Mohit Shukla	Member
18.	TCS	Ms. Srividya Nandalal	Member
19.	TCS	Ms. Jigyasa Agarwal	Member
20.	University of Kalyani	Dr. Jyotsna Kumar Mandal	Member
21.	In Personal Capacity	Dr. P V Ananda Mohan	Member & Convenor (Panel)
22.	In Personal Capacity	Dr. Shirshendu Roy	Member

ITEM 0 WELCOME

- 0.1 Member Secretary, Shri Priyanshu Sharma welcomed and thanked all members for attending the 14th Meeting of LITD 19 sectional committee.
- 0.2 The Chairperson formally welcomed all the participants and was delighted to observe such rich participation from all members across various ISO/IEC working groups and the recently concluded SC 36 plenary sessions. New project proposals were introduced, prompting the committee to anticipate feedback on their progress. Valuable insights emerged from discussions, particularly regarding the impact of generative AI on areas such as E-Learning and content development, sparking considerations for existing standards. Dr. Jyotsna Kumar Mandal, convener of SC 36/WG 7 on Culture, Language, and Individual Needs, was commended for the significant contributions beyond the agenda, with a request for sharing the latest inputs provided to the ISO secretariat.

After a brief introduction of the members present, Member Secretary took upon the formal agenda items.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF THE LAST MEETING

- 1.1 There being no comments received from the members, the committee formally **confirmed** the minutes of the last (13th) meeting of 'E-Learning' Sectional Committee, LITD 19, which was held on 14th November 2023.

ITEM 2 ISSUES ARISING OUT OF THE PREVIOUS MEETINGS

The committee noted and appreciated the progress report of the action items from the previous meeting, given in item 2 of the agenda.

ITEM 3 SCOPE & COMPOSITION OF COMMITTEE

- 3.1 The committee reviewed the scope and composition of LITD 19 given in Annex-1 & the panels given in Annex-2 of the agenda.

The committee **decided** to modify the Scope & Title of panel 1 to “Review of three Drafts on Code of Practice for Designing Online Course Contents and Quality Assessment of Course Content and Delivery Platform”

- 3.2 The committee noted the co-option request given in 3.2 of the agenda. Since Dr. Malateshgouda Karegoudar was not present in the meeting, it was decided to take up his co-option request in the next meeting. The committee also emphasized that any co-option shall only be taken up when the expert attends the meeting, if invited. Dr. Malateshgouda Karegoudar needs to attend the next meeting as an invitee, otherwise his co-option will be rejected.
- 3.3 The committee noted the nomination given in item 3.3 of the agenda and formally welcomed (Dr. Sanjay Kumar Dhurandhar) from NIELIT to the Committee.
- 3.4 The committee noted the information given in item 3.4 of the agenda and Member Secretary was requested to follow up with IIM Bangalore for co-option.
- 3.5 The committee noted the information given in item 3.5 of the agenda. Since Shri Srikanth Chandrasekaran is leading the overall IEEE in Indian and due to his busy schedules he was not present in the last two committee meetings. The Chairperson (Dr. N Sarat Chandra Babu) volunteered to seek participation from IEEE.

3.5 It was noted that the attendance of IGNOU was 3/3 in the previous 3 meetings.

ITEM 4 UPDATE FROM PANELS UNDER LITD-19

4.1 Panel 1

The committee noted the comments received during the wide circulation on the three drafts on “Code of Practice for Designing Online Course Contents and Quality Assessment of Course Content and Delivery Platform”. On further deliberation of the comments, the committee recommended few technical modifications along with the editorial correction as received on the comments during the wide circulation. The committee finalized the three drafts for publication as Indian standards and the project editor was requested to incorporate the changes and share the revised drafts with the Member Secretary. On receipt of the revised drafts, the Member Secretary was **requested** to review the changes as recommended by the committee and send the three drafts for publication as Indian standards.

4.2 Panel 2

The committee deliberated and noted the comments received during the preliminary draft period. Since all the comments were editorial in nature, the committee accepted all the P-draft comments and **requested** the Member Secretary to circulate the draft on “Requirements for E-text books in Education” in Wide circulation for a period of 60 days, after incorporating the comments received during the preliminary draft period.

4.3 Panel 3

The committee again reviewed the modifications made in the revised WC document and it was emphasized that the revision should refrain from mentioning any specific Act/Rule in the draft since different situations may adhere to different acts/ rules.

In view of the above, after having detailed discussion on this topic, the committee **decided to** incorporate the following statement in Clause 7.4 of the draft:

“Conformance has to be ensured to the applicable Act/Rule. In case violation happens, the Institution/an Individual may be liable under the applicable statute”

and delete the following statement from Clause 7.4 of the draft:

“In case violation happens in Data privacy and protection, despite consent, the Institution and/or an Individual is liable under Section 66E of IT Act”.

It was **decided** to circulate the modified draft in Wide circulation for a period of 60 days inviting inputs & comments.

ITEM 5 REVIEW OF PUBLISHED/UNDER DEVELOPMENT STANDARDS

5.1 Review of Published Standards

The committee reviewed the standards listed in agenda item 5.1 and **recommended** to reaffirm the following standard for another period of three years since these are important standards. The committee further emphasized that if any inputs/comments are received before the due month of review, they may be considered and again taken up for review by the committee. Members were **encouraged** to volunteer or review the standards:

SI No.	IS No.	Title	Review due on
1.	IS/ISO/IEC TR 29163-2 : 2009	Information Technology - Sharable Content Object Reference Model (SCORM) 2004 3rd Edition Part 2 Content Aggregation Model Version 1.1	December 2024
2.	IS/ISO/IEC TR 29163-1 : 2009	Information Technology - Sharable Content Object Reference Model (SCORM) 2004 3rd Edition Part 1 Overview Version 1.1	July 2024
3.	IS/ISO/IEC 19796-3 : 2009	Information technology - Learning, education and training - Quality management, assurance and metrics: Part 3 reference methods and metrics	October 2024
4.	IS/ISO/IEC 24751-2 : 2008	Information technology - Individualized adaptability and accessibility in E-Learning, education and training: Part 2 Access for all personal needs and preferences for digital delivery	October 2024
5.	IS/ISO/IECTR 29163-3 : 2009	Information Technology Sharable Content Object Reference Model (SCORM) 2004 3rd Edition Part 3 Run-Time Environment Version 1.1	October 2024
6.	IS/ISO/IEC 24751-3 : 2008	Information technology - Individualized adaptability and accessibility in E - Learning, education and training: Part 3 "Access for all" digital resource description	December 2024
7.	IS/ISO/IEC 24751-1 : 2008	Information Technology Individualized-Adaptability And Accessibility In-E-learning, Education And Training-Part 1 Framework And Reference Model	December 2024
8.	IS/ISO/IEC 23988 : 2007	Information technology - A code of practice for the use of information technology (IT) in the delivery of assessments	January 2025

5.1.1 The committee **recommended** to archive the following standard:

SI No.	SI No.	Title	Review due on
1.	IS/ISO 29990 : 2010	Learning services for non - Formal education and training - Basic requirements for service providers	December 2023

5.2 The committee gave the following recommendations for drafts to be issued under Wide Circulation.

SI No.	Doc No & ISNo	Title	DocumentType	Decision of the committee
1.	LITD/19/25319 (Modified adoption of : ISO/IEC TS 20748-4: 2019)	Information technology for learning education and training -Learning analytics interoperability -Part 4: Privacy and data protection policies	New	The committee decided to modify the draft as per Clause 4.3 above and circulate it under Wide circulation for a period of 60 days
2.	LITD/19/24439 Draft Indian	Requirements for E-Textbooks in Education	New	The committee decided to circulate the draft under Wide

	Standard			circulation for a period of 60 days, after incorporating the comments received during the Preliminary draft (P-draft) period.
3.	LITD/19/25541 Identical to ISO/IEC 20013:2020	Information technology for learning education and training - Reference framework of e-Portfolio information	New	The committee decided to issue the draft Indian standard identical to ISO/IEC 20013:2020 under Wide Circulation for a period of 60 days inviting comments & inputs from all relevant stakeholders.

5.3 The committee gave the following recommendations for the draft Indian standards which have completed WC-draft stage:

Sl. No.	Doc No & IS	Title	Document Type	Decision of the committee
1.	LITD/19/23078	Code of Practice for Designing Online Course Contents and Quality Assessment of Course Content Delivery Platform Part 1: Course Content Preparation Current Practices and Compliance Verification Criteria	New	The committee decided to modify the draft as per Clause 4.1 above and finalized the draft after incorporating the said changes and requested the Member Secretary to send the revised draft for publication as an Indian standard.
2.	LITD/19/23080	Code of Practice for Designing Online Course Contents and Quality Assessment of Course Content Delivery Platform Part 2: Online Course Contents Quality Model and Assessment Methodology	New	The committee decided to modify the draft as per Clause 4.1 above and finalized the draft after incorporating the said changes and requested the Member Secretary to send the revised draft for publication as an Indian standard.
3.	LITD/19/23081	Code of Practice for Designing Online Course Contents and Quality Assessment of Course Content Delivery Platform Part 3: Online course hosting platform quality model and assessment methodology	New	The committee decided to modify the draft as per Clause 4.1 above and finalized the draft after incorporating the said changes and requested the Member Secretary to send the revised draft for publication as an Indian standard.
4.	LITD/19/24426 Identical to ISO/IEC 24751-4:2023	Information technology Individualized adaptability and accessibility in e-learning education and training Part 4: "Access for all" framework for individualized accessibility and registry server application programming interface API	New	The committee finalized the draft and requested the Member Secretary to send it for publication as an Indian standard.

ITEM 6 GUIDELINES FOR RESEARCH & DEVELOPMENT (R&D) PROJECTS FOR THE FORMULATION AND REVIEW OF STANDARDS INVITING POTENTIAL R&D PROJECTS FROM THE COMMITTEE MEMBERS

The committee noted the information given in item 6 of the agenda and reviewed the proposal received on “Development of Augmented Reality (AR)/Virtual Reality (VR) Enhanced e-Learning module for Understanding Electric Vehicle Battery test Standards by Public and Industry professionals”. The committee felt that the submitted ToR was more of an application of “E-Learning” and may be more relevant to other technical committees of BIS (ETD or TED departments). In view of the above, the proposer was again requested to do the background review for the technical committee where the project is most relevant and propose it there.

The committee also emphasized on the fact that the proposed R&D projects should be, as far as possible, aligned with existing standards or useful in developing new standards.

The committee members were encouraged to submit potential R&D projects & their associated ToR for the consideration & review by the committee.

ITEM 7 PROGRAM OF WORK

7.1 The committee noted the current program of work of LITD 19 given in Annex- 7 of the agenda.

ITEM 8 INTERNATIONAL ACTIVITIES

8.1 The committee noted the information given in 8.1 of the agenda

8.2 The committee noted the information given in 8.2 of the agenda

8.3 Plenary Meetings of ISO/IEC JTC 1/SC 36

8.3.1 Debriefing from last Meeting of JTC 1/SC 36

The following members from the Indian delegation members provided the brief of their participation:

- Shri M. Kumar (CDAC) informed that in SC 36/WG 4, it is planned to initiate a study to identify use cases, new work items, and the requirements for “Metaverse for LET (Learning, Education and Training)” with initial composition of 3 members. Mr Kumar is one among them).
- Dr. Jyotsna Kumar Mandal (University of Kalyani) informed that he led the SC 36/WG 7 discussions as the Convenor of the group and shared his experience as new convenor of WG 7. He also touched upon the new work items in WG 7 and also provided presentation on closing plenary session of SC 36, requesting more participation from Indian experts in the WG 7.
- Shri Mohit Shukla (TCS) informed that he provided inputs towards online course resource integration. This involves connecting two systems, allowing one system to access a course resource from another, addressing aspects like attributes, APIs, and user authentication methods in SC 36/WG 9. He provided his inputs during the WG 9 meetings and the project leader has shared the revised drafts with him for further review.

The committee appreciated the enriching work being done by our experts in this committee and requested

them to continue their active involvement and participation in the national and international standardization efforts.

Further, the committee requested the Indian delegates who attended the recent SC 36 Plenary & WG meetings working groups meeting to share their brief participation report at an early date to the BIS secretariat for committee consideration. This will be useful for the SC 36 Indian National Mirror Committee (LITD 19) to be prepared in advance.

8.3.2 Upcoming Meeting of JTC 1/SC 36

The committee noted the information pertaining to the 41st plenary meeting of JTC 1/SC 36, scheduled to be held during 19-27, September, 2024. Since the agenda for the meeting is yet to be published, the Member secretary was requested to circulate the agenda for the meetings once it is available.

The committee **decided** to finalize the Indian delegation and the Indian contributions for the upcoming Plenary meetings in the next committee meeting.

8.4 The committee reviewed the list of Indian experts nominated in various sub-groups of SC 36. It was also **decided** to withdraw the following members of LITD 19 from the listed working groups of ISO/IEC JTC1/SC 36:

Working Group	Name of WG	Experts Withdrawn
JTC 1/SC 36/WG 3	Learner information	1. Shri Karthik K S, In personal capacity
JTC 1/SC 36/WG 4	Management and delivery	
JTC 1/SC 36/WG 7	ITLET - Culture, language and individual needs	1. Ms Vinodhini, In personal capacity

8.5 Standards of JTC 1/SC 36

8.5.1 The committee reviewed the list of standards published by JTC 1/SC 36 given in 8.5.1 of the agenda and **decided** to issue the draft Indian standard identical to ISO/IEC 20013: 2020 in Wide Circulation for a period of 60 days inviting comments & inputs from all relevant stakeholders.

ITEM 9 WEBINAR

9.1 The committee requested the Webinar core organizing team to speed up and organize the planned webinar at the earliest available date. Member secretary was requested to discuss with the organizing team for the exact date and communicate the same to the committee members to speed up and ensure the timely execution of the webinar.

ITEM 10 INFORMATION ON E-SALE OF STANDARDS BY BIS

10.1 The committee noted the information given in 10.1 of the agenda.

ITEM 11 NATIONAL INSTITUTE FOR TRAINING IN STANDARDISATION (NITS)

11.1 The committee noted the information given in 11.1 of the agenda.

ITEM 12 MANAKONLINE

12.1 The committee noted the information given in 12.1 of the agenda.

ITEM 13 DATE AND PLACE FOR THE NEXT MEETING

The committee **decided** to schedule the next meeting tentatively in July 2024.

ITEM 14 ANY OTHER BUSINESS

14.1 There being no other items to be discussed, the meeting ended with vote of thanks to the members and chairperson.