BUREAU OF INDIAN STANDARDS

LITD 14 : Software And System Engineering

Scope: To prepare Indian standards relating to: a) Processes, supporting tools and supporting technologies for the engineering of software products and systems. b) IT service management and IT governance

Liaison: **ISO/IEC/JTC1 TC- SC-40 (P):** *IT service management and IT governance* **ISO/IEC/JTC1 TC- SC-7 (P):** *Software and systems engineering* **ISO/IEC/JTC1 TC- SC-7 (Convenorship):** *Business planning group* **ISO/IEC/JTC1 TC- SC-7 (Convenorship):** *Communications and outreach* **ISO/IEC/JTC1 TC- SC-7 (Convenorship):** *Architecture and future watch* **ISO/IEC/JTC1 TC- SC-7 (Convenorship):** *Green software*

Published Standards

S.No	IS No.	TITLE	Reaffirm M-Y	No. of Amds	Eqv.
1	IS 11289 : 2023 ISO/IEC 14756 : 1999 ISO/IEC 14756 : 1999	Information technology Measurement and rating of performance of computer-based software systems		-	Identical under dual numbering
2	IS 11291 (Part 1) : 2023 ISO/IEC 29119-1 : 2022 ISO/IEC 29119-1 : 2022	Software and systems engineering Software testing Part 1: General concepts		-	Identical under dual numbering
3	IS 11291 (Part 2) : 2023 ISO/IEC 29119-2 : 2021 ISO/IEC 29119-2 : 2021	Software and systems engineering Software testing Part 2: Test processes		-	Identical under dual numbering
4	IS 11291 (Part 3) : 2023 ISO/IEC 29119-3 : 2021 ISO/IEC 29119-3 : 2021	Software and systems engineering Software testing Part 3: Test documentation		-	Identical under dual numbering
5	IS 11291 (Part 4) : 2023 ISO/IEC 29119-4 : 2021 ISO/IEC 29119-4 : 2021	Software and systems engineering Software testing Part 4: Test techniques		-	Identical under dual numbering
6	IS 12372 : 1987 ISO 5806: 1987[E]	Presentation of single - Hit decision tABles	June, 2021	-	Identical under dual numbering

7	IS 12373 (Part 1) : 2018 ISO/IEC 7498-1 : 1994 Reviewed In : 2021 ISO 7498-1984[E]	Information technology - Open systems interconnection - Basic reference model: Part 1 the basic model (First Revision)	September, 2021	-	Identical under dual numbering
8	IS 12373 (Part 2) : 1992 ISO 7498-2 Reviewed In : 2023 ISO 7498-2	Basic reference model of open systems interconnection for information processing systems: Part 2 Security architecture	June, 2023	-	Identical under dual numbering
9	IS 12373 (Part 3) : 2018 ISO/IEC 7498-3 : 1997 Reviewed In : 2021 ISO/IEC 7498-3 : 199	Information technology - Open systems interconnection - Basic reference model: Part 3 naming and addressing (First Revision)	June, 2021	-	Identical under dual numbering
10	IS 12373 (Part 4) : 1993 ISO/IEC 7498-4 Reviewed In : 2023 ISO/IEC 7498-4	Basic reference model of open systems interconnection for information processing systems: Part 4 management framework	June, 2023	-	Identical under dual numbering
11	IS 13394 : 2021 ISO/IEC 26514 : 2008 ISO/IEC 26514 : 2008	Systems and software engineering Requirements for designers and developers of user documentation(First Revision)		-	Identical under dual numbering
12	IS 13587 : 1992 ISO 8790 Reviewed In : 2022 ISO 8790	Computer system configuration diagram symbols and conventions for information processing systems	November, 2022	-	Identical under dual numbering
13	IS 13615 : 2020 ISO/IEC 15953 : 1999 Reviewed In : 2023 ISO/IEC 15953 : 1999	Information Technology - Open Systems Interconnection - Service Definition for the Application Service Object Association Control Service Element (First Revision)	November, 2023	-	Identical under dual numbering
14	IS 13672 : 2018 ISO/IEC 9545 : 1994 Reviewed In : 2021 ISO/IEC 9545 : 1994	Information technology - Open systems interconnection - Application layer structure (First Revision)	June, 2021	-	Identical under dual numbering
15	IS 13675 (Part 1/Sec 1) : 1993 ISO/IEC 9072-1 Reviewed In : 2022 ISO/IEC 13712-1 : 1995	Remote operations in text communication for information processing systems: Part 1 model, notation and service definition	June, 2022	-	Identical under dual numbering
16	IS 13675 (Part 1) : 2023 ISO/IEC 13712-1 : 1995 ISO/IEC 13712-1 : 1995	Information Technology Remote Operations Part 1 Section 1 Concepts Model and Notation		-	Identical under dual numbering
17	IS 13675 (Part 1/Sec 2) : 2023 ISO/IEC 13712-2 :	Information Technology ï¿½ Remote Operations: OSI Realizations Part 1 Section 2		-	Identical under dual numbering

	1995 ISO/IEC 13712-2 : 1995	Remote Operations Service Element (ROSE) Service Definition			
18	IS 13675 (Part 2) : 2022 ISO/IEC 13712-3 : 1995 ISO/IEC 13712-3 : 1995	Information technology -Remote Operations: OSI realizations- Part 2 Remote Operations service Element (ROSE) ï¿½ Protocol specification		-	Identical under dual numbering
19	IS 13706 : 2020 ISO/IEC 8650 Reviewed In : 2023 ISO/IEC 15954 : 1999	Information Technology - Open Systems Interconnection - Connection-mode Protocol for the Application Service Object Association Control Service Element (First Revision)	December, 2023	-	Identical under dual numbering
20	IS 13706 (Part 2) : 2016 ISO/IEC 8650-2 : 1997 Reviewed In : 2022 ISO/IEC 8650-2 : 1997	Information technology - Open systems interconnection - Protocol specification for the association control service element: protocol implementation conformance statement (PICS) performa	June, 2022	-	Identical under dual numbering
21	IS 13707 (Part 1) : 1993 ISO/IEC 9066-1 Reviewed In : 2023 Reaffirmed but not taken up for revision ISO/IEC 9066-1	ReliABle transfer in text communication for information processing systems: Part 1 model and service definition	June, 2023	-	Identical under dual numbering
22	IS 13707 (Part 2) : 1993 ISO/IEC 9066-2 Reviewed In : 2023 Reaffirmed but not taken up for revision ISO/IEC 9066-2	ReliABle transfer in text communication for information processing systems: Part 2 protocol specification	June, 2023	-	Identical under dual numbering
23	IS 14639 : 2021 ISO/IEC 25051 : 2014 ISO/IEC 25051 : 2014	Software engineering Systems and software Quality Requirements and Evaluation SQuaRE Requirements for quality of Ready to Use Software Product RUSP and instructions for Testing First Revision		-	Identical under dual numbering
24	IS 14653 : 2014 ISO/IEC 14102 Reviewed In : 2023 ISO/IEC 14102 : 2008	Information technology - Guideline for the evaluation and selection of case tools (First Revision)	September, 2023	-	Identical under dual numbering
25	IS 16124 : 2020 ISO/IEC/IEEE 12207 : 2017 Reviewed In : 2023 ISOIECIEEE12207: 2017	Systems and Software Engineering - Software Life Cycle Processes (First Revision)	December, 2023	-	Identical under dual numbering
26	IS 16417 : 2015 ISO/IEC 25001:2014 Reviewed In : 2021 ISO/IEC 25001:2014	Software engineering - Software product quality requirements and evaluation (Square) - Planning and management	November, 2021	-	Identical under dual numbering

27	IS 16419 (Part 1) : 2020 ISO/IEC 19770-1 : 2017 Reviewed In : 2023 19770-1 : 2017	Information Technology — IT Asset Management Part 1 IT Asset Management Systems - Requirements (First Revision)	November, 2023	-	Identical under dual numbering
28	IS 16419 (Part 2) : 2022 ISOIEC 19770-2 : 2015 ISOIEC 19770-2 : 2015	Information technology Software asset management Part 2: Software identification tag		-	Identical under dual numbering
29	IS 16419 (Part 3) : 2021 ISO/IEC 19770-3 : 2016 ISO/IEC 19770-3 : 2016	Information technology IT asset management Part 3: Entitlement schema		-	Identical under dual numbering
30	IS 16443 : 2024 ISO/IEC 25010 ISO/IEC 25010	Systems and Software Engineering â€" Systems and Software Quality Requirements and Evaluation (Square) â€" Product Quality Model (First Revision)		-	Identical under dual numbering
31	IS 16445 : 2016 Reviewed In : 2022 ISO/IEC 25012 : 2008	Software engineering - Software product quality requirements and evaluation (Square) - Data quality model	October, 2022	-	Identical under dual numbering
32	IS 16446 : 2021 ISO/IEC 25020 : 2019 ISO/IEC 25020 : 2019	Systems and software engineering Systems and software Quality Requirements and Evaluation SQuaRE Quality measurement framework First Revision		-	Identical under dual numbering
33	IS 16447 : 2016 ISO/IEC 25021 : 2012 Reviewed In : 2022 ISO/IEC 25021 : 2012	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - Quality measure elements	July, 2022	-	Identical under dual numbering
34	IS 16448 : 2021 ISO/IEC 25030 : 2019 ISO/IEC 25030 : 2019	Systems and software engineering — Systems and software quality requirements and evaluation (SQuaRE) — Quality requirements framework (First Revision)		-	Identical under dual numbering
35	IS 16456 : 2024 ISO/IEC 14764:2022 ISO/IEC 14764:2022	Software engineering - Software life cycle processes Maintenance (First Revision)		-	Identical under dual numbering
36	IS 16457 : 2024 ISO/IEC/IEEE 15288: 2023 ISO/IEC/IEEE 15288: 2023	Systems and software engineering-System life cycle processes (Second Revision)		-	Identical under dual numbering
37	IS 16458 : 2023 ISO/IEC/IEEE 16085 : 2021 ISO/IEC/IEEE 16085 : 2021	Systems and software engineering Life cycle processes Risk management		-	Identical under dual numbering
38	IS 16458 : 2015	Systems and software engineering -	November, 2021	-	Identical under dual

No.	IS No. / ISO No.	Title			Degree of Equivalence
	ISO/IEC 16085 : 2006 Reviewed In : 2021 ISO/IEC/IEEE 16085 : 2021	Life cycle processes - Risk management			numbering
39	IS 16845 : 2019 ISO/IEC 25000 : 2014 Reviewed In : 2022 ISO/IEC25000:2014	Systems and software engineering - Systems and software quality requirements and evaluation (Square) - Guide to square	April, 2022	-	Identical under dual numbering
40	IS 17041 : 2018 Reviewed In : 2021	Software Quality Engineering â€" Development Process â€" Software Development Management System (SDMS) â€" Requirements	October, 2021	-	Indigenous
41	IS 17548 : 2021	Software and Systems Engineering – Core Agile Practices		-	Indigenous
42	IS 17743 (Part 1) : 2021 ISO/IEC 29110-1 : 2016 ISO/IEC 29110-1 : 2016	Systems and software engineering Lifecycle profiles for Very Small Entities VSEs Part 1: Overview		-	Identical under dual numbering
43	IS 17743 (Part 2/Sec 1) : 2021 ISO/IEC 29110-2-1 : 2015 ISO/IEC 29110-2-1 : 2015	Software Engineering Lifecycle profiles for Very Small Entities VSEs Part 2: Framework and taxonomy		-	Identical under single numbering
44	IS 18838 : 2024	Information Technology - Adequacy of Organizational Data Governance and Management Practices		-	Indigenous
45	IS/ISO/IEC 20000-1 : 2018 IS/ISO/IEC 20000-1 : 2018 Reviewed In : 2023 ISO/IEC 20000 (PART 1) : 2018	Information Technology - Service Management Part 1 Service Management System Requirements (Second Revision)	March, 2023	-	Identical under single numbering
46	IS/ISO/IEC 20000-2 : 2019 ISO/IEC 20000 (PART ISO/IEC 20000 (PART 2) : 2019	Information technology - Service management - Part 2: Guidance on the application of service management systems (Second Revision)		-	Identical under single numbering
47	IS/ISO/IEC 20000-3 : 2019 ISO/IEC 20000 (PART 3) : 2019 ISO/IEC 20000 (PART 3) : 2019	Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISOIEC 20000-1 (First Revision)		-	Identical under single numbering
48	IS/ISO/IEC/TR 20000-5 : 2022 ISO/IEC TS 20000-5: 2022 ISO/IEC TS 20000-5: 2022	Information technology Service management Part 5: Implementation guidance for IS/ISO/IEC 20000-1 (First Revision)		-	Identical under single numbering
49	IS/ISO/IEC	Information Technology Service		-	Identical under single

	20000-10 : 2018 ISO/IEC 20000 (PART ISO/IEC 20000 (PART 10) : 2018	Management Part 10 Concepts and Vocabulary (First Revision)			numbering
50	IS/ISO/IEC/TS 30103 : 2015 ISO/IEC TS 30103 : 2015 Reviewed In : 2021 ISO/IEC 30103:2015	Software and Systems Engineering - Lifecycle Processes - Framework for Product Quality Achievement	June, 2021	-	Identical under single numbering
51	IS/ISO/IEC 30105-1 : 2016 ISO/IEC 30105-1 : 2016 Reviewed In : 2021 ISO/IEC 30105-1 : 2016	Information Technology - IT Enabled Services - Business Process outsourcing (ITES-BPO) Lifecyle Processes Part 1 Process Reference Model (PRM)	January, 2021	-	Identical under single numbering
52	IS/ISO/IEC 30105-2 : 2016 ISO/IEC 30105-2 : 2016 Reviewed In : 2024 ISO/IEC 30105-2 : 2016	Information Technology - IT Enabled Serives - Business Process Outsouring (ITES - BPO) Lifecyle Process Part 2 Process Assessment Model (PAM)	January, 2024	-	Identical under single numbering
53	IS/ISO/IEC 30105-3 : 2016 ISO/IEC 30105-3 : 2016 Reviewed In : 2021 ISO/IEC 30105-3 : 2016	Information Technology - IT Enabled Services - Business Process Outsourcing (ITES -BPO) Lifeycle Processes Part 3 Measurement Framework (MF) and Organization Maturity Model (OMM)	January, 2021	-	Identical under single numbering
54	IS/ISO/IEC 30105-4 : 2016 ISO/IEC 30105-4 : 2016 Reviewed In : 2021 ISO/IEC 30105-4 : 2016	Information Technology - IT Enabled Serives - Business Process Outsouring (ITES-BPO) Lifecyle Processes Part 4 Terms and Concepts	January, 2021	-	Identical under single numbering
55	IS/ISO/IEC 30105-5 : 2016 ISO/IEC 30105-5 : 2016 Reviewed In : 2021 ISO/IEC 30105-5 : 2016	Information Technology - IT Enabled Services Business Process Outsourcing (ITES - BPO) Lifecycle Processes Part 5 Guidelines	January, 2021	-	Identical under single numbering
56	IS/ISO/IEC 30130 : 2016 ISO/IEC 30130:2016 ISO/IEC 30130:2016	Software engineering Capabilities of software testing tools		-	Identical under dual numbering
57	IS/ISO/IEC/IEEE 42010 : 2022 ISO/IEC/IEEE 42010: 2022 ISO/IEC/IEEE 42010: 2022	Software, Systems and Enterprise ï¿½ Architecture Description (First Revision)		-	Identical under single numbering
58	IS/ISO/IEC/IEEE 42020 : 2019	Software systems and enterprise Architecture processes		-	Identical under single numbering

	ISO/IEC/IEEE 42020 : 2019 ISO/IEC/IEEE 42020 : 2019				
59	IS/ISO/IEC/IEEE 42030 : 2019 ISO/IEC/IEEE 42030 : 2019 ISO/IEC/IEEE 42030 : 2019	Software systems and enterprise Architecture evaluation framework		-	Identical under single numbering
60	IS/ISO/IEC 90003 : 2018 ISO/IEC 90003 : 2014 Reviewed In : 2023 ISOIECIEEE90003: 2018	Software engineering Guidelines for the application of ISO 9001:2008 to computer software	December, 2023	-	Identical under single numbering

Standards under Development

Projects Approved

SI. No.	Doc No.	Title
No Records Found		

Preliminary Draft Standards

SI. No.	Doc No.	Title
1	LITD 14 (26406)	Software and Systems Engineering DevOps - Principles and Practices

Drafts Standards in WC Stage

SI. No.	Doc No.	Title
No Records Found		

Draft Standards Completed WC Stage

SI. No.	Doc No.	Title
No Records Found		

Finalized Draft Indian Standard

SI. No.	Doc No.	Title
1	LITD 14 (25192)	Information technology Governance of IT for the organization
2	LITD 14 (25193)	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 6 Guidelines on risk management
3	LITD 14 (25194)	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 7 Exemplar for maturity assessment
4	LITD 14 (25197)	Information technology -IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 8 Continual performance improvement CPI of ITES-BPO
5	LITD 14 (25198)	Information technology IT Enabled Services-Business Process Outsourcing ITES-BPO lifecycle processes Part 9 Guidelines on extending process capability assessment for digital transformation
6	LITD 14 (26055) Revision of: IS/ISO/IEC 30105:2016	Information Technology - IT Enabled Serives - Business Process Outsouring ITES-BPO Part 4 Part 4 Key concepts First Revision
7	LITD 14 (26057) Revision of: IS 13394:2021	Systems and software engineering Requirements for designers and developers of user documentation Second Revision

	Finalized Draft Indian Standards under Print	
SI. No.	**Doc No.**	**Title**
	No Records Found	

Total Published Standards:56 Total Standards Under development:8

Aspect Wise Report

Product : 0

Code of Practices : 8

Methods of Test : 3

Terminology : 6

Dimensions : 0

System Standard : 4

Safety Standard : 0

Others : 29

Service Specification : 3

Process Specification : 5

Unclassified : 0

Annexure-I :List of Indian Standards Withdrawn/Superseded

SI. No.	IS No. & Year	Title
1	IS 10934 : 1983 ISO 3307: 1975[E] Reviewed In : 2019 ISO 3307: 1975[E]	Representations of tme of the day
2	IS 10935 : 1983 ISO 2711-1975[E] Reviewed In : 2019 ISO 2711-1975[E]	Representation of ordinal dates
3	IS 10992 (Part 3) : 1984 Reviewed In : 2000	High Speed Tubeless Tyres for Civil Aircraft - Part 3 Qualification Tests
4	IS 11291 : 1985 Reviewed In : 2019	Code of practice for testing of computer based systems
5	IS 11365 : 1985 ISO 4031 Reviewed In : 2019 ISO 4031	Representation of local time differential for information interchange
6	IS 13392 : 1992 ISO 6593 Reviewed In : 2016 ISO 6593	Programme flow for processing sequential files in terms of record groups for information processing
7	IS 13553 : 1993 ISO 9127 Reviewed In : 2016 ISO 9127	User documentation and cover information for consumer software packages for information processing systems
8	IS 13557 (Part 14) : 1993 Reviewed In : 2019 ISO 2382-14	Information processing systems - vocabulary Part 14 reliABility maintenance and availABility
9	IS 13557 (Part 18) : 1999 ISO 2382-18 Reviewed In : 2019 ISO 2382-18	Information processing systems - vocabulary Part 18 distributed data processing
10	IS 14638 : 1998 ISO/IEC 9126 Reviewed In : 2019 ISO/IEC 9126	Information technology - Software product evaluation - Quality characteristics and guidelines for their use

11	IS 14692 (Part 1) : 1999 ISO/IEC 2382-1 Reviewed In : 2019 ISO/IEC 2382-1	Information technology - vocabulary Part 1 fundamental terms
12	IS 1885 (Part 52/Sec 2) : 1980 Reviewed In : 2019 ISO 2382-2	Electrotechnical vocabulary Part 52 data processing Sec 2 arithmetic and logic operations
13	IS 1885 (Part 52/Sec 7) : 1980 Reviewed In : 2019 ISO 2382-5	Electrotechnical vocabulary Part 52 data processing Sec 7 digital computer programming
14	IS 1885 (Part 52/Sec 10) : 1980 Reviewed In : 2019 ISO 2382-10	Electrotechnical vocabulary Part 52 data processing Sec 10 data communication
15	IS 1885 (Part 52/Sec 11) : 1981 Reviewed In : 2019 ISO 2382-10	Electrotechnical vocabulary Part 52 data processing Sec 11 operating techniques and facilities
16	IS 1885 (Part 52/Sec 13) : 1980 Reviewed In : 2019 ISO 2382-19	Electrotechnical vocabulary Part 52 data processing Sec 13 analogue and hybrid computing
17	IS 1885 (Part 52/Sec 14) : 1983 Reviewed In : 2019 ISO 2382-13	Electrotechnical vocabulary Part 52 data processing Sec 14 computer graphics and computer micrographics
18	IS/ISO/IEC/TR 20000-4 : 2010 ISO/IEC 20000-4 : 2010 ISO/IEC 20000-4 : 2010	Information Technology Service Management Part 4 Process Reference Model
19	IS/ISO/IEC/TR 20000-9 : 2015 ISO/IEC TR 20000-9 : 2015 ISO/IEC 20000 : Part 9 : 2015	Information Technology Service Management Part 9 Guidance on the Application of ISO IEC 20000-1 to Cloud Services
20	IS 2902 : 1964	Fixed carbon film resistors Type 1
21	IS 2903 : 1964	Fixed carbon film resistors Type 2
22	IS 2934 : 1964	Non-wire-wound variable resistors potentiometers Type 2 7 Part 1 Tests and general requirements
23	IS 3373 (Part 1) : 1965	Wirewound resistors Type II Part 1 Tests and general requirements
24	IS 3373 (Part 2) : 1966	Wirewound resistors Type II Part 2 Vitreous enamelled
25	IS 4114 : 1967	Code of practice for laying of cast iron pipes Second Revision
26	IS 5786 (Part 2) : 1982 Reviewed In : 2000	Fixed Resistors General Purpose Low Power - Part 2 Resistors Type FRLP 1
27	IS 5786 (Part 8) : 1982 Reviewed In : 2000	Fixed Resistors General Purpose Low Power - Part 8 Resistor Type FRLP 7
28	IS 5786 (Part 9) : 1976	Fixed resistors general purpose low power Part 9 resistors type FRLP 8
29	IS 5786 (Part 11) : 1969	Fixed resistors general purpose low power Part 11 Type FRLP 10
30	IS 825 : 1956	Colour Code For Fixed Resistors

Annexure-II :List of Indian Product Standards

SI. No.	IS No. & Year	Title
No Records Found		