

Discipline : CIVIL ENGINEERING

Sl. No.	Academic Course	Semester	Subject under the Semester	Topic of the BIS Lecture	Time slot required	IS No.	Title
1	B.E/B.Tech in Civil Engineering		Building Materials	Standardizatoion on Building Materials	90 min	IS 4031 (Parts 1 to 15)	Methods of physical tests for hydraulic cement
						IS 269, IS 1489 (Parts 1 & 2), IS 455	Ordinary Portland cement — Specification Portland slag cement — Specification Portland pozzolana cement — Specification:
						IS 383	Coarse and fine aggregates for concrete
						IS 1199 (Parts 1 to 8) IS 516 (Parts 1 to 11)	Fresh concrete — Methods of tests Hardened concrete — Methods of tests
2	B.E/B.Tech in Civil Engineering		Structural Analysis	Standards on Loading in Buildings and Structures	90 min	IS 875 (Parts 1 to 5)	Code of practice for design loads (other than earthquake) for buildings and structures
						SP 64	Explanatory Handbook on Indian Standard Code of practice for design loads (other than earthquake) for buildings and structures
3	B.E/B.Tech in Civil Engineering		Soil Mechanics / Geotechnical Engineering	Indian Standards on Soil Mechanics & Foundation Engineering	90 min	IS 1892	Subsurface investigation for foundations — Code of practice
						IS 2911	Design and construction of pile foundations — Code of practice
						IS 2131	Method for standard penetration test for soils
						IS 6403	Code of practice for determination of breaking capacity of shallow foundations
						IS 1080	Code of practice for design and construction of shallow foundations in soils (other than raft, ring and shell)
						IS 1904	General requirements for design and construction of foundations in soils — Code of practice
4	B.E/B.Tech in Civil Engineering		Basic Reinforced Cement Concrete design	Standardization on Concrete	90 min	IS 2950 (Part 1)	Code of practice for design and construction of raft foundations: Part 1 Design
						IS 456	Plain and reinforced concrete — Code of practice
						IS 10262	Concrete mix proportioning — Guidelines
5	B.E/B.Tech in Civil Engineering		Concrete Technology	Indian Standards on Concreting	90 min	IS 3370	Concrete structures for retaining aqueous liquids — Code of practice
						IS 10262	Concrete mix proportioning — Guidelines (second revision)
						IS 383	Coarse and fine aggregates for concrete — Specification (third revision)
						IS 269, IS 1489, IS 455	Ordinary Portland cement — Specification Portland slag cement — Specification Portland pozzolana cement — Specification:

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						IS 9103	Concrete admixtures — Specification (first revision)
6	B.E/B.Tech in Civil Engineering		Steel design	Indian Standards on Steel in Construction	90 min	IS 800	General construction in steel — Code of practice
						SP 6	Handbook for structural engineers — Steel columns and struts
7	B.E/B.Tech in Civil Engineering		Environmental Engineering / Water Supply / Waste Water Engg.	Standardization in the field of Public Health Engineering	90 min	IS 1172	Code of basic requirements for water supply, drainage and sanitation (fourth revision)
						IS 2064	Selection, installation and maintenance of sanitary appliances — Code of practice (second revision)
						IS 2065	Code of practice for water supply in buildings (second revision)
						NBC 2016 (Part 9)	National Building Code of India Part 9 Plumbing services (including solid waste management)
8	B.E/B.Tech in Civil Engineering		Construction and Project Management	Indian Standards on Construcction Project Management	90 min	IS 15883 (Parts 1 to 12)	Construction project management — Guidelines
9	B.E/B.Tech in Civil Engineering		Prestressed concrete	Indian Standards on Prestressed Concrete	90 min	IS 1343	Prestressed concrete — Code of practice
10	B.E/B.Tech in Civil Engineering		Earthquake Engineering	Indian Standards on Earthquake Engineering Design	90 min	IS 1893 (Parts 1 to 6)	Criteria for earthquake resistant design of structures
11	B.Tech in Civil Engineering		Water Resource Engineering	Dams, Canals and Appurtenant Structures	90 min	IS 6939 IS 14654 IS 16547 IS 11223 IS 16238 IS 14592 IS 8408 IS 14248 IS 12379	Utilization of different Indian standards framed related to Irrigation Engineering, Design codes for Dams, Canals and different structures. An overview of BIS and WRD.
12	B. Tech in Civil Engineering		Water Resources Management	Dams, Canals and Appurtenant Structures	90 min	IS 8237 IS 15792 IS 15359 IS 9118 IS IS 4073 IS 4080 IS 4858	Utilization of different Indian standards framed related to Irrigation Engineering, Design codes for Dams, Canals and different structures. An overview of BIS and WRD.