

Discipline : ELECTRICAL 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		Electrical Measurements	Standardization on Electrical Measurements	90 min	IS 1248 Series	Direct Acting Indicating Analogue Electrical Measuring Instruments and their Accessories – Series (Part 1 to 8)
						IS/IEC 61557	Electrical safety in low voltage distribution systems up to 1000 V a.c and 1500 Vd.c. – Equipment for testing, Measuring Or Monitoring Of Protective Measures - Series
2	B.E/B.Tech		Motors	Standardization on	90 min	IS 12615 - 2018	Line Operated Three Phase a.c. Motors
						IS 1231 - 2019	Dimensions and Output Series of Foot Mounted Induction Motors
						IS 996 - 2009	Single-phase a.c. industrial motors for general purpose
						IS 15999 - Series	Rotating electrical machines
3	B.E/B.Tech		Transformers	Standardization on Transformers	90 min	IS 1180 (Part 1): 2014	Outdoor Type Oil Immersed Distribution Transformers Up to and Including 2500 kVA, 33kV - Specification Part 1 Mineral Oil Immersed (Fourth Revision)
						IS 1180 (Part 3): 2021	Outdoor/Indoor Type Liquid Immersed Distribution Transformers Up to and Including 2500 kVA, 33 kV â€” Specification Part 3 Natural/Synthetic Organic Ester Liquid Immersed
						IS 2026 series	Power Transformers - Series
4	B.E/B.Tech		Insulator	Standardization on Insulators	90 min	IS/IEC 60383 Series	Insulators for Overhead Lines with a Nominal Voltage Above 1000 V
5	B.E/B.Tech		Cables	Standardization on Cables	90 min	IS 694 - 2010	Polyvinyl Chloride Insulated Unsheathed And Sheathed Cables/cords With Rigid And Flexible Conductor For Rated Voltages Up To And Including 1100 V
						IS 17048 : 2018	Halogen Free Flame Retardant (HFFR) Cables for Working Voltages up to and including 1100 Volts — Specification

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						IS 17505 : Part 1 : 2021	Specification for Thermosetting Insulated Fire Survival Cables for Fixed Installation having Low Emission of Smoke and Corrosive Gases when Affected by Fire for Working Voltages upto and including 1100 Va.c. and 1500 Vd.c.
6	B.E/B.Tech		Power Converters & UPS	Standardization on Power Converters & UPS	90 min	IS 16539 - 2017	Semiconductor Converters Part 1 General and Line Commutated Converters Section 1 Specification of basic requirements
						IS 16242 - 2014	Uninterruptible Power Systems (UPS)
7	B.E/B.Tech		Low Voltage Switchgears	Standardization on LV Switchgears	90 min	IS 12640 - 2016	Residual Current Operated Circuit- Breakers Without Integral Overcurrent Protection for Household and Similar Uses (RCCBs)
						IS/IEC 60497 Series	Low-voltage switchgear and controlgear.
						IS/IEC 60898 Series - 2002	Electrical Accessories - Circuit-Breakers For Overcurrent Protection For Household And Similar Installations
8	B.E/B.Tech		High Voltage Switchgears	Standardization on HV Switchgears	90 min	IS/IEC 62271 Series -	High-voltage switchgear and controlgear.
9	B.E/B.Tech		HVDC HVAC	Standardization on HVDC & HVAC	90 min	IS 15597 : 2005	Determination of power losses in high-voltage directcurrent (HVDC) Converter stations
						IS 15617 : 2017	Static Var Compensators (SVC) Testing of Thyristors valves
						IS/IEC/TR 63042-100 : 2016	UHV AC transmission systems
						IS/IEC/TR 63042-201 : 2018	
						IS/IEC/TR 63042-101 : 2019	
10	B.E/B.Tech		Lighting	Standardization on	90 min	NLC SP : 72 - 2010	National Lighting Code (NLC) SP 72: 2010
						IS 10322 - Series	Luminaires