

## Detailed Teaching Plan

Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
L-01	1	Unit-1.0 Symbols and Codes ISI Symbols in electrical engineering	Page 1-16			
L-02	1	ISI Symbols in electrical engineering	C.R. DARGON			
L-03	1	ISI Symbols in electrical engineering				
L-04	1	Conventions for circuit and schematic representation of electrical and electronic components, instruments and equipment				
L-05	1	Conventions for circuit and schematic representation of electrical and electronic components, instruments and equipment				
L-06	1	Conventions for circuit and schematic representation of electrical and electronic components, instruments and equipment				
L-07	2	Unit-2.0 Installation mounting and layout of power and safety equipment Different types of mountings for static(transformers): pole and ground mounted	C. R. DARGON 35			
L-08	2	Different types of mountings for static(transformers): pole and ground mounted				
L-09	2	Mountings for dynamic equipment (electrical rotating machines)				
L-10	2	Substation layout with circuit breaker, on-load and off-load isolators, Buchholz's relay and other protective devices of transformers up to 2MVA				
L-11	2	Substation layout with circuit breaker, on-load and off-load isolators, Buchholz's relay and other protective devices of transformers up to 2MVA				
L-12	2	Substation layout with circuit breaker, on-load and off-load isolators, Buchholz's relay and other protective devices of transformers up to 2MVA				
L-13	2	Plate and Pipe earthing	295			
L-14	2	Plate and Pipe earthing	296.			
L-15	2	Extension of range using shunt, multiplier, CT, PT				

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L-16	2	Extension of range using shunt, multiplier, CT, PT				
L-17	3	Unit-3.0 Constructional Features of Electrical Machines Parts of a transformer up to 2 MVA	C. R. DARGAN			
L-18	3	DC Machines: pole, pole shoe, simplex lap and wave winding	P-205			
L-19	3	Alternators: salient and cylindrical rotor	P-148			
L-20	3	Induction motors: squirrel cage and slip ring				
L-21	3	AC Machine winding full pitch winding and short pitch winding	Page 174-			
L-22	3	AC Machine winding full pitch winding and short pitch winding	180			
L-23	4	Unit-4.0 Domestic and Commercial wiring for LV Equipment Illumination fixtures: types and Internal circuit diagram	C. R. DARGAN			
L-24	4	Control wiring of go down, staircase, street light and for houses	271 - 280			
L-25	4	Control wiring of go down, staircase, street light and for houses				
L-26	4	Wiring of energy meters for domestic and commercial loads.				
L-27	4	Wiring of energy meters for domestic and commercial loads.				
L-28	4	Internal Wiring of Refrigerators and Air conditioners				
L-29	4	Internal Wiring of Refrigerators and Air conditioners				
L-30	4	Starter, 4-point starter				
L-31	4	Starter, 4-point starter				
L-32	4	Wiring diagram of submersible and centrifugal pumps				

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Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
L-33	5	Unit-5: Computer Aided Electrical Drawing(CAD) Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command.				
L-34	5	Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command				
L-35	5	Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command				
L-36	5	Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command				
L-37	5	Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command				
L-38	5	Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command				
L-39	5	General electrical and electronic symbols, Layouts of domestic, commercial and industrial wiring (2D only)				
L-40	5	General electrical and electronic symbols, Layouts of domestic, commercial and industrial wiring (2D only)				
L-38	5	Computer Aided Drawing: Draw command, edit command, ordinate entry, Osnap, Layers, Dimensioning, Text in a drawing, Ortho command, Zoom command and plot command				
L-41	5	Cross Sectional view of : i. Fuse and cables (2D) ii. D.C. Motor and their parts				

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Lecture No.	Unit No.	Topic to be covered	Books & Page Nos.	Notes Page Nos.	Slide Nos.	A/V Resource
L-42	5	Cross Sectional view of : iii. Single phase Transformer, Power transformer iv. Induction Motor	Indecent + C.R.DARGAN Page no - 53			
L-43	5	Cross Sectional view of : v. Insulators, Circuit Breakers, Lightning Arresters vi. 11 KV Pole Mounted Substation	C.R.DARGAN Page no - 27			
L-44	5	Single line diagrams of 11KV/33 KV Substation				
L-45	5	Single line diagrams of 11KV/33 KV Substation				

Signature of Lecturer

Signature of HOD

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