

STUDY PLAN

Measurement and instrumentation		Power Electronics		Network Theory	
Topic	Recording	Topic	Timing	Topic	Timing
Introduction to Electrical & Electronics Engineering Measurements	Recording-1	Power Electronics-1	Recording-1	Parallel Resonance	Recording-1
Error Analysis Part-1	Recording-2	Power Electronics-2	Recording-2	Performance Parameters of Series and Parallel Resonance	Recording-2
Error Analysis Part-2	Recording-3	Power Electronics-3	Recording-3	Average & RMS values of difference waveforms	Recording-3
Types of Dampings and torques	Recording-4	Power Electronics-4	Recording-4	Two Port Networks & Graph Theory	Recording-4
PMMC	Recording-5	Power Electronics-5	Recording-5	Graph Theory and Questions	Recording-5
Rectifier type instruments	Recording-6	Power Electronics-6	Recording-6	Poly phase Network	Recording-6
Moving iron type instruments -1	Recording-7	Power Electronics-7	Recording-7	Poly phase Network	Recording-7
Moving iron type instruments -2	Recording-8	Power Electronics-8	Recording-8	Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	Recording-8
Moving iron type instruments -3	Recording-9	Power Electronics-9	Recording-9	Electric Potential	Recording-9
Power factor meter, flux meter, Frequency meter	Recording-10	Power Electronics-10	Recording-10	Ohms law, Concept of Resistance	Recording-10
Measurement of Power-1	Recording-11	Power Electronics-11	Recording-11	Types Of Circuit Elements	Recording-11
Measurement of Power-2	Recording-12	Power Electronics-12	Recording-12	Concept of Inductor	Recording-12
Energy meter -1	Recording-13	Power Electronics-13	Recording-13	Concept of Capacitance & Laplace transforms	Recording-13
Energy meter -2	Recording-14	Power Electronics-14	Recording-14	Some Functions & Their Laplace Transforms	Recording-14
Instrument transformers Part-1	Recording-15	Power Electronics-15	Recording-15	Resistance in Series and Parallel & Star Delta conversion	Recording-15
Instrument transformers Part-2	Recording-16	Power Electronics-16	Recording-16	Capacitance in Series and Parallel	Recording-16
CRO - 1	Recording-17	Power Electronics-17	Recording-17	KVL and KCL	Recording-17
CRO - 2	Recording-18	Power Electronics-18	Recording-18	Question Practice Session	Recording-18
AC bridges 1	Recording-19	Power Electronics-19	Recording-19	Questions Practice Session	Recording-19

AC bridges 2	Recording-20	Power Electronics-20	Recording-20	Network Theorem	Recording-20
		Power Electronics-21	Recording-21	(Superposition Theorem)	Recording-21
		Power Electronics-22	Recording-22	Thevenin's, Nortons Theorem	Recording-22
		Power Electronics-23	Recording-23	Maximum Power Transfer Theorem	Recording-23
		Power Electronics-24	Recording-24	Tellegen's, Milliman's & Reciprocity Theorem	Recording-24
		Power Electronics-25	Recording-25	AC Fundamentals	Recording-25
		Power Electronics-26	Recording-26	Series Resonance	Recording-26
		Power Electronics-27	Recording-27		
		Power Electronics-28	Recording-28		

Electrical Machine		UEE	
Topic	Timing	Topic	Timing
Electrical Machine-1	Recording-1	Type of Motor and Characterstics	Recording-1
Electrical Machine-2	Recording-2	Type of loads	Recording-2
Electrical Machine-3	Recording-3	System of electric traction and track electrification	Recording-3
Electrical Machine-4	Recording-4	Speed-time curves for different services	Recording-4
Electrical Machine-5	Recording-5	Calculation of various quantities of Electrical Traction	Recording-5
Electrical Machine-6	Recording-6	Methods of Electrical Heating	Recording-6
Electrical Machine-7	Recording-7	Methods of Electrical Welding	Recording-7
Electrical Machine-8	Recording-8	Introduction and terms used in Illumination	Recording-8
Electrical Machine-9	Recording-9	Discharge Lamps, MV and SV Lamps	Recording-9
Electrical Machine-10	Recording-10	Basic Principle of Light Control , Types and design of lightning and flood lighting	Recording-10
Electrical Machine-11	Recording-11		

Electrical Machine-12	Recording-12		
Electrical Machine-13	Recording-13		
Electrical Machine-14	Recording-14		
Electrical Machine-15	Recording-15		

