

STUDY PLAN

Measurement and instrumentation		Electrical Machine		UEE		Power Electronics	
Topic	Recording	Topic	Timing	Topic	Timing	Topic	Timing
Introduction to Electrical & Electronics Engineering Measurements	Recording-1	Electrical Machine-1	Recording-1	Type of Motor and Characteristics	Recording-1	Power Electronics-1	Recording-1
Error Analysis Part-1	Recording-2	Electrical Machine-2	Recording-2	Type of loads	Recording-2	Power Electronics-2	Recording-2
Error Analysis Part-2	Recording-3	Electrical Machine-3	Recording-3	System of electric traction and track electrification	Recording-3	Power Electronics-3	Recording-3
Types of Dampings and torques	Recording-4	Electrical Machine-4	Recording-4	Speed-time curves for different services	Recording-4	Power Electronics-4	Recording-4
PMMC	Recording-5	Electrical Machine-5	Recording-5	Calculation of various quantities of Electrical Traction	Recording-5	Power Electronics-5	Recording-5
Rectifier type instruments	Recording-6	Electrical Machine-6	Recording-6	Methods of Electrical Heating	Recording-6	Power Electronics-6	Recording-6
Moving iron type instruments -1	Recording-7	Electrical Machine-7	Recording-7	Methods of Electrical Welding	Recording-7	Power Electronics-7	Recording-7
Moving iron type instruments -2	Recording-8	Electrical Machine-8	Recording-8	Introduction and terms used in Illumination	Recording-8	Power Electronics-8	Recording-8
Moving iron type instruments -3	Recording-9	Electrical Machine-9	Recording-9	Discharge Lamps, MV and SV Lamps	Recording-9	Power Electronics-9	Recording-9
Power factor meter, flux meter, Frequency meter	Recording-10	Electrical Machine-10	Recording-10	Basic Principle of Light Control , Types and design of lightning and flood lighting	Recording-10	Power Electronics-10	Recording-10
Measurement of Power-1	Recording-11	Electrical Machine-11	Recording-11			Power Electronics-11	Recording-11
Measurement of Power-2	Recording-12	Electrical Machine-12	Recording-12			Power Electronics-12	Recording-12
Energy meter -1	Recording-13	Electrical Machine-13	Recording-13			Power Electronics-13	Recording-13
Energy meter -2	Recording-14	Electrical Machine-14	Recording-14			Power Electronics-14	Recording-14
Instrument transformers Part-1	Recording-15	Electrical Machine-15	Recording-15			Power Electronics-15	Recording-15
Instrument transformers Part-2	Recording-16					Power Electronics-16	Recording-16
CRO - 1	Recording-17					Power Electronics-17	Recording-17
CRO - 2	Recording-18					Power Electronics-18	Recording-18
AC bridges 1	Recording-19					Power Electronics-19	Recording-19

AC bridges 2	Recording-20					Power Electronics-20	Recording-20
						Power Electronics-21	Recording-21
						Power Electronics-22	Recording-22
						Power Electronics-23	Recording-23
						Power Electronics-24	Recording-24
						Power Electronics-25	Recording-25
						Power Electronics-26	Recording-26
						Power Electronics-27	Recording-27
						Power Electronics-28	Recording-28

Digital Electronics		Control System		EMFT	
Topic	Timing	Topic	Timing	Topic	Timing
Orientation	Recording-1	Introduction	Recording-1	EMFT-1	Recording-1
Introduction to Number systems	Recording-2	Basics of Control Systems	Recording-2	EMFT-2	Recording-2
Addition in different base	Recording-3	Concept of Transfer Function	Recording-3	EMFT-3	Recording-3
Subtraction in Different Base	Recording-4	Mechanical System	Recording-4	EMFT-4	Recording-4
Complements	Recording-5	Block Diagram Reduction Technique & SFG	Recording-5	EMFT-5	Recording-5
Interconversions part-1	Recording-6	Block Diagram Reduction Technique & SFG	Recording-6	EMFT-6	Recording-6
Interconversions part-2	Recording-7	Block Diagram Reduction Technique & SFG	Recording-7	EMFT-7	Recording-7
Binary Codes,BCD	Recording-8	Time Domain Analysis	Recording-8	EMFT-8	Recording-8
Excess-3 and Gray Codes	Recording-9	Time Domain Analysis	Recording-9	EMFT-9	Recording-9
Practice Questions	Recording-10	Time Domain Analysis	Recording-10	EMFT-10	Recording-10
Axioms and Operations	Recording-11	Time Domain Analysis	Recording-11		

Laws of Boolean Algebra	Recording-12	Stability	Recording-12		
SOP and POS representation part-1	Recording-13	Stability	Recording-13		
SOP and POS representation part-2	Recording-14	Root Locus Technique	Recording-14		
Basic Gates	Recording-15	Root Locus Technique	Recording-15		
Special Gates	Recording-16	Root Locus Technique	Recording-16		
Universal Gates	Recording-17	Root Locus Technique	Recording-17		
Circuits of Gates	Recording-18	Frequency Domain Analysis	Recording-18		
Adders	Recording-19	Frequency Domain Analysis	Recording-19		
Subtractors	Recording-20	Frequency Domain Analysis	Recording-20		
Multiplexers part-1	Recording-21	Polar Plots	Recording-21		
Multiplexers part-2	Recording-22	Polar Plots	Recording-22		
Demultiplexers and Decoders	Recording-23	Polar Plots	Recording-23		
Practice Questions	Recording-24	Nyquist Plot	Recording-24		
Introduction to flip flops	Recording-25	Nyquist Plot	Recording-25		
Different types of Flip flops	Recording-26	Nyquist Plot	Recording-26		
Counters Basics	Recording-27	Bode Plot	Recording-27		
Counters Basics	Recording-28	Bode Plot	Recording-28		
Practice Questions	Recording-29	Bode Plot	Recording-29		
A/D Convertors	Recording-30	Bode Plot	Recording-30		
D/A Convertors	Recording-31	Bode Plot	Recording-31		
Practice Questions	Recording-32	State Space Analysis	Recording-32		
Memories	Recording-33	State Space Analysis	Recording-33		