STUDY PLAN

Digital Electronics		Microprocessor and Microcontroller		Basic Electronics		EMFT	
Topic	**Timing**	**Topic**	**Timing**	**Topic**	**Timing**	**Topic**	**Timing**
Orientation	Recording-1	Microprocessor and microcontroller-1	Recording-1	Basic Electronics-1	Recording-1	EMFT-1	Recording-1
Introduction to Number systems	Recording-2	Microprocessor and microcontroller-2	Recording-2	Basic Electronics-2	Recording-2	EMFT-2	Recording-2
Addition in different base	Recording-3	Microprocessor and microcontroller-3	Recording-3	Basic Electronics-3	Recording-3	EMFT-3	Recording-3
Subtraction in Different Base	Recording-4	Microprocessor and microcontroller-4	Recording-4	Basic Electronics-4	Recording-4	EMFT-4	Recording-4
Complements	Recording-5	Microprocessor and microcontroller-5	Recording-5	Basic Electronics-5	Recording-5	EMFT-5	Recording-5
Interconversions part-1	Recording-6	Microprocessor and microcontroller-6	Recording-6	Basic Electronics-6	Recording-6	EMFT-6	Recording-6
Interconversions part-2	Recording-7	Microprocessor and microcontroller-7	Recording-7	Basic Electronics-7	Recording-7	EMFT-7	Recording-7
Binary Codes,BCD	Recording-8	Microprocessor and microcontroller-8	Recording-8	Basic Electronics-8	Recording-8	EMFT-8	Recording-8
Excess-3 and Gray Codes	Recording-9	Microprocessor and microcontroller-9	Recording-9	Basic Electronics-9	Recording-9	EMFT-9	Recording-9
Practice Questions	Recording-10	Microprocessor and microcontroller-10	Recording-10	Basic Electronics-10	Recording-10	EMFT-10	Recording-10
Axioms and Operations	Recording-11	Microprocessor and microcontroller-11	Recording-11	Basic Electronics-11	Recording-11		
Laws of Boolean Algebra	Recording-12	Microprocessor and microcontroller-12	Recording-12	Basic Electronics-12	Recording-12		
SOP and POS representation part-1	Recording-13	Microprocessor and microcontroller-13	Recording-13	Basic Electronics-13	Recording-13		
SOP and POS representation part-2	Recording-14	Microprocessor and microcontroller-14	Recording-14	Basic Electronics-14	Recording-14		
Basic Gates	Recording-15	Microprocessor and microcontroller-15	Recording-15	Basic Electronics-15	Recording-15		
Special Gates	Recording-16	Microprocessor and microcontroller-16	Recording-16				
Universal Gates	Recording-17	Microprocessor and microcontroller-17	Recording-17				
Circuits of Gates	Recording-18	Microprocessor and microcontroller-18	Recording-18				
Adders	Recording-19	Microprocessor and microcontroller-19	Recording-19				

Subtractors	Recording-20		Microprocessor and microcontroller-20	Recording-20					
Multiplexers part-1	Recording-21								
Multiplexers part-2	Recording-22								
Demultiplexers and Decoders	Recording-23								
Practice Questions	Recording-24								
Introduction to flip flops	Recording-25								
Different types of Flip flops	Recording-26								
Counters Basics	Recording-27								
Counters Basics	Recording-28								
Practice Questions	Recording-29								
A/D Convertors	Recording-30								
D/A Convertors	Recording-31								
Practice Questions	Recording-32								
Memories	Recording-33								

Control Sytem		**Network Theory**		**Communication System**	
		Topic	**Timing**	**Topic**	**Timing**
		Parallel Resonance	Recording-1	Communication System-1	Recording-1
Topic	**Timing**	Performance Parameters of Series and Parallel Resonance	Recording-2	Communication System-2	Recording-2
Introduction	Recording-1	Average & RMS values of difference waveforms	Recording-3	Communication System-3	Recording-3
Basics of Control Systems	Recording-2	Two Port Networks & Graph Theory	Recording-4	Communication System-4	Recording-4
Concept of Transfer Function	Recording-3	Graph Theory and Questions	Recording-5	Communication System-5	Recording-5
Mechanical System	Recording-4	Poly phase Network	Recording-6	Communication System-6	Recording-6

Block Diagram Reduction Technique & SFG	Recording-5		Poly phase Network	Recording-7		Communication System-7	Recording-7
Block Diagram Reduction Technique & SFG	Recording-6		Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	Recording-8		Communication System-8	Recording-8
Block Diagram Reduction Technique & SFG	Recording-7		Electric Potential	Recording-9			
Time Domain Analysis	Recording-8		Ohms law, Concept of Resistance	Recording-10			
Time Domain Analysis	Recording-9		Types Of Circuit Elements	Recording-11			
Time Domain Analysis	Recording-10		Concept of Inductor	Recording-12			
Time Domain Analysis	Recording-11		Concept of Capacitance & Laplace transforms	Recording-13			
Stability	Recording-12		Some Functions & Their Laplace Transforms	Recording-14			
Stability	Recording-13		Resistance in Series and Parallel & Star Delta conversion	Recording-15			
Root Locus Technique	Recording-14		Capacitance in Series and Parallel	Recording-16			
Root Locus Technique	Recording-15		KVL and KCL	Recording-17			
Root Locus Technique	Recording-16		Question Practice Session	Recording-18			
Root Locus Technique	Recording-17		Questions Practice Session	Recording-19			
Frequency Domain Analysis	Recording-18		Network Theorem	Recording-20			
Frequency Domain Analysis	Recording-19		(Superposition Theorem)	Recording-21			
Frequency Domain Analysis	Recording-20		Thevenin's, Nortons Theorem	Recording-22			
Polar Plots	Recording-21		Maximum Power Transfer Theorem	Recording-23			
Polar Plots	Recording-22		Tellegen's, Milliman's & Reciprocity Theorem	Recording-24			
Polar Plots	Recording-23		AC Fundamentals	Recording-25			
Nyquist Plot	Recording-24		Series Resonance	Recording-26			
Nyquist Plot	Recording-25						
Nyquist Plot	Recording-26						
Bode Plot	Recording-27						

Bode Plot	Recording-28						
Bode Plot	Recording-29						
Bode Plot	Recording-30						
Bode Plot	Recording-31						
State Space Analysis	Recording-32						
State Space Analysis	Recording-33						