WE SHAPE THE DREAM

COURSE PLAN: ELECTRICAL

Subject	Lecture	Topic
DC Circuit	1	Mixed Circuit
	2	KVL, KCL, Star-Delta Conversion, Source Conversion
	3	Loop & Node Analysis, Super Node and Super Mesh
	4	Superposition Theorem
	5	Thevenin Theorem
	6	Norton Theorem, Maximum Power Transfer
AC Circuit	1	Phasor, Vector, Fundamental of AC Circuit
	2	AC Series Circuit,
	3	AC Parallel Circuit,
	4	Resonance & Filter Circuit,
	5	Poly Phase Circuit
Machines	1	Basic Concept, Formula, DC Motor
	2	DC Generator
	3	Transformer Test, Equivalent Circuit
	4	Transformer efficiency, Voltage Regulation
	5	AC Motor, Induction Motor
	6	Synchronous Motor, AC Generator
Power System	1	TD
	2	Variable Load
	3	PFI
	4	Per Unit, Percentage, Sequence & Reactance Diagram
	5	Fault Analysis (Symmetrical)
	6	Unsymmetrical, Load Flow Study
	7	Switchgear & Protection
Electronics	1	Semiconductor & Diode
	2	Rectifier
	3	Clipper & Clamper
	4	Transistor (Structure, Configuration, Theory)
	5	BJT biasing
	6	FET, MOSFET, CMOS
	7	Amplifier, Oscillator, Multivibrator
	8	Op-Amp
	9	Power Electronics
Communication Engineering	1	Basic, Modulation, Different Communication System
	2	AM, FM, PM
	3	Spectrum, Block, Equation
	4	Channel Capacity
	5	Digital Communication (Coding, Sampling, Bit-Rate)
	6	Optical Fiber
	7	Signal & System
	8	Cellular & Satellite Communication
Digital Electronics	1	Boolean Algebra, Logic Gate, K-Map
	2	Logic Circuit, Flip Flop, Counter, Register
	3	Combinational Logic Circuit (Mux, Adder, Sub tractor, Encoder etc.)
Measurement	1	Power Measurement, Shunt & Multiplier Value, Error