S.NO	PRIMARY TOPICS	SUB TOPICS	POINTS TO BE COVERED	DURATION (Theory) HOURS / MIN
1	**INTRODUCTION**	What is a Computer?	Software & hardware	15
		Block Diagram	Functional Layout of a computer	
2	**INPUT DEVICES**	Keyboard	Mechanical	90
			Membrane	
			Multimedia	
			Connector Types	
			Pin details	
		Mouse	Types: Mechanical	
			Optical	
			Working principle	
			Connectors	
			Pin details	
		Scanner	Functionality of Components	
			Working principle	
			What is resolution?	
			Types: Flatbed	
			Drum	
			Handheld	
3	**OUTPUT DEVICES**	Monitors	CRT Monitor	120
			Type of Monitors	
		Laser printer	Key Components of laser printer	60
			Working principle	
			What is Printer resolution?	
		Ink jet printer	Key Components of Ink Jet printer	30
			Working principle	
			Merits and De-merits	
4	**SMPS**	Working principle	Rectification	45
			Filtration	
			Regulations	
		Connectors	Type of Connectors (outputs)	
			Voltage output vs. Application	
		Earthing	What is Earthing?	
			How to Test Earthing?	
5	**MOTHERBOARD**	Key components	North bridge	120
			South bridge	
		Expansion slots	PCI	
			ISA	
			EISA	
		Peripheral components	Serial	
			Parallel	
			USB	
			Video connectors	
		BIOS	What is BIOS?	
			How does it work?	
			BIOS settings	
		Types of memory sets	SIMM	
			DIMM	
			DDR	
			RIMM	

6	**CPU**	Types	CISC	60
			RISC	
		Working principle	TDMA	
			Multi Processing	
			Multi Tasking	
7	**MEMORY**	ROM	EPROM	60
			EEPROM	
			PROM	
		RAM	SRAM	
			DRAM	
		Cache memory	Level -1	
			Level -2	
			Cache Read/Write	
		Magnetic Storage	What is Magnetic Storage?	90
			How it is Works?	
			Hard Disk	
			Magnetic Tapes	
			Recording Technology	
		Optical Storage	Optical Disk	
			Writing a CD	
			Reading a CD	
			CD Player	
			DVD Disk	
		Tapes	Types of Tapes LTO, DTS	
			Construction	
			Working	
			VTL	
		IDE	Cable	30
			Connector	
		SCSI	Identifiers	
			Controllers	
			Device	
			Terminator	
			Cable	
			Connectors	
			Types	
		SATA	Revisions	
			Cables	
			Connector	
			ESATA	