MONTH	MODULE/UNIT	COURSE TO BE COVERED	TOTAL	TOTAL
			NO. OF	NO. OF
			CLASS	CLASS
	UNIT-1	1. GENERATION OF	07	
		ELECTRICITY		
		1.1 Elementary idea on	03	
		generation of electricity		
		from Thermal, Hydel,		
		Nuclear, Power station		
		1.2 Introduction to Solar	02	
		Power Plant (Photovoltaic		
		cells).		
		1.3 Layout diagram of	02	
		generating stations		
	UNIT-2	2. TRANSMISSION OF	05	
		ELECTRIC POWER		
		2.1 Layout of transmission	01	
		and distribution scheme		
		2.2 Voltage Regulation &	01	
		efficiency of transmission		
		2.3 State and explain	02	
		Kelvin's law for economical		
		size of conductor		
		2.4 Corona and corona loss	01	
		on transmission lines		
	UNIT-3	3. OVER HEAD LINES	07	
		3.1 Types of supports, size	01	
		and spacing of conductor		
		3.2 Types of conductor	01	
		materials		
		3.3 State types of insulator	02	
		and cross arms		
		3.4 Sag in overhead line	01	
		with support at same level		
		and different level.		
		(approximate formula effect		
		of wind, ice and temperature		
		on sag)		
		3.5 Simple problem on sag	02	
	UNIT-4	4. PERFORMANCE OF	07	
		SHORT & MEDIUM		
		LINES		
		4.1.Calculation of regulation	07	
		and efficiency		
	UNIT-5	5. EHV TRANSMISSION	07	
		5.1 EHV AC transmission.	04	
		5.1.1. Reasons for adoption		

	of EHV AC transmission.		
	5.1.2. Problems involved in		
	EHV transmission		
	5.2 HV DC transmission.	03	
	5.2.1. Advantages and	05	
	Limitations of HVDC		
	transmission system		
UNIT-6	6. DISTRIBUTION	07	
0111-0	SYSTEMS	07	
	6.1 Introduction to	01	
	Distribution System	01	
	6.2 Connection Schemes of	02	
	Distribution System:	02	
	(Radial, Ring Main and		
	Inter connected system)		
	6.3 DC distributions.	02	
	6.3.1 Distributor fed at one		
	End.		
	6.3.2 Distributor fed at both		
	the ends.		
	6.3.3 Ring distributors		
	6.4 AC distribution system.	02	
	6.4.1. Method of solving	02	
	AC distribution problem.		
	6.4.2. Three phase four wire		
	star connected system		
	arrangement		
UNIT-7	7. UNDERGROUND	06	
	CABLES		
	7.1 Cable insulation and	02	
	classification of cables		
	7.2 Types of L. T. & H.T.	01	
	cables with constructional	01	
	features		
	7.3 Methods of cable lying	02	
	7.4 Localization of cable	01	
	faults: Murray and Varley	~ •	
	loop test for short circuit		
	fault/ Earth fault		
UNIT-8	8. ECONOMIC	06	
	ASPECTS		
	8.1 Causes of low power	01	
	factor and methods of		
	improvement of power		
	factor in power system		
	8.2 Factors affecting the	03	
	economics of generation:		
	(Define and explain)		
	8.2.1 Load curves.		

	8.2.2 Demand factor.		
	8.2.3 Maximum demand.		
	8.2.4 Load factor.		
	8.2.5 Diversity factor.		
	8.2.6 Plant capacity factor		
	8.3 Peak load and Base load	02	
	on power station		
UNIT-9	9. TYPES OF TARIFF	03	
	9.1.Desirable characteristic	01	
	of a tariff		
	9.2.Explain flat rate, block	02	
	rate, two part and		
	maximum demand tariff.		
	(Solve Problems		
UNIT-10	10. SUBSTATION	05	
	10.1 Layout of LT, HT and	02	
	EHT substation		
	10.2 Earthing of Substation,	03	
	transmission and		
	distribution lines.		