SL NO.	WEEK NO	DATE	TOPICS TO BE COVERED	NO OF PERIODS
01	01	14.02.2023 TO 17.02.2023	Unit-1. ELECTRICAL MATERIAL 1.1 Properties & uses of different conducting material. 1.2 Properties & use of various insulating materials used electrical engineering. 1.3 Various magnetic materials & their uses.	03
02	02	20.02.23 TO 24.02.23	Unit-2. DC GENERATOR 2.1 Construction, Principle & application of DC Generator. 2.2 Classify DC generator including voltage equation.	04
03	03	27.02.2023 TO 03.03.23	2.3 Derive EMF equation & simple problems. 2.4 Parallel operation of DC generators. 3.1 Principle of working of a DC motor	04
04	04	06.03.2023 TO 10.03.2023	3.2 Concept of development of torque & back EMF in DC motor including simple problems. 3.3 Derive equation relating to back EMF, Current, Speed and Torque equation 3.4 Classify DC motors & explain characteristics, application.	03
05	05	13.03.2023 TO 17.03.2023	3.5 Three point & four point stator/static of DC motor by solid State converter. 3.6 Speed of DC motor by field control and armature control method.	04
06	06	20.03.2023 TO 24.03.2023	3.7 Power stages of DC motor & derive Efficiency of a DC motor. Unit-4. AC CIRCUITS 4.1 Mathematical representation of phasors, significant of operator "J"	04
07	07	27.03.23 TO 31.03.2023	4.2 Addition, Subtraction, Multiplication and Division of phasor quantities. 4.3 AC series circuits containing resistance, capacitances, Conception of active, Reactive and apparent power and Q-factor of series circuits & solve related problems 4.4 Find the relation of AC Parallel circuits containing Resistances, Inductance and Capacitances Q-factor of parallel circuits.	03
08	08	03.04.2023 TO 06.04.2023	Unit-5.TRANSFORMER 5.1 Ideal transformer. 5.2 Construction & working principle of transformer 5.3 Derive of EMF equation of transformer, voltage transformation ratio.	03
09	09	10.04.2023 TO 13.04.2023	5.2 Construction & working principle of transformer 5.3 Derive of EMF equation of transformer, voltage transformation ratio. 5.4 Discuss Flux, Current, EMF components of transformer and their phasor diagram under no load Condition	03
10	10	17.04.2023 TO 21.04.2023	5.6 Types of losses in Single Phase (1-ø) Transformer. 5.7 Open circuit & short-circuit test (simple problems) 5.8 Parallel operation of Transformer. 5.9 Auto Transformer	04
11	11	24.04.2023 TO	5.9 Auto Transformer Unit-6. INDUCTION MOTOR	04

		28.04.2023	**6.1 Construction feature, types of three-phase induction motor.** **6.2 Principle of development of rotating magnetic field in the stator.**	
12	**12**	**01.05.2023** **TO** **04.05.2023**	**6.3 Establish relationship between synchronous speed, actual speed and slip of induction motor** **6.4 Establish relation between torque, rotor current and power factor.** **.**	**03**
13	**13**	**08.05.2023** **TO** **12.05.2023**	**6.5 Explain starting of an induction motor by using DOL and Star-Delta stator. State industrial use of induction motor** **Unit-7. SINGLE PHASE INDUCTION MOTOR** **7.1 Construction features and principle of operation of capacitor type and shaded pole type of single-phase induction motor..**	**04**
14	**14**	**15.05.2023** **TO** **18.05.2023**	**7.2 Explain construction & operation of AC series motor** **7.3 Concept of alternator & its application.** **revision**	**03**
15	**15**	**22.05.2023** **TO** **23.05.2023**	**Revision**	**02**