0			
MONTH	Current Electricity	TOPICS COVERED THEORY  Electricity as a source of energy, Definition of Resistance, Voltage, Current, Power, Energy and their units, Relation between electrical, mechanical and thermal units, Factors affecting resistance of a conductor, Temperature co-efficient of resistance, Difference between AC and DC voltage and current.	PRACTICAL  Verify that resistance of conductor is directly proportional to resistivity and length and inversely proportional to cross- sectional area of the conductor.
Jul-25	D. C. Circuits	Ohm's Law, Series – parallel resistance circuits, calculation of equivalent resistance, Kirchhoff's Laws and their applications	Verification of Ohm's Law. Verification of temperature co-efficient of resistance: (i) Positive for Tungsten and Nichrome and (ii) Negative for carbon.
	UNIT 1: COMMUNICATION SKILLS – III	written, verbal and non-verbal communication Tenses, verbs and adjective # Methods of communication Verbal Non-verbal Visual, Communication stylesassertive, aggressive, passive aggressive, submissive, etc Activity/Q&A	Writing pros and cons of written, verbal and non-verbal communication Draw a diagram depicting the parts of speech.
Aug-25	Electric Cells	Primary cell, wet cell, dry cell, battery, series and parallel connections of cells, Secondary cells, Lead Acid Cell, Discharging and recharging of cells, common charging methods, preparation of electrolyte, care and maintenance of secondary cells	Preparation of Electrolyte for lead acid battery and its
	Heating and Lighting Effects of Current UNIT 2: SELF - MANAGEMENT SKILLS —	Joule's Law of electric heating and its domestic applications, heating efficiency, lighting effect of electric current, filaments used in lamps, and gaseous discharge lamps, their working and applications.  #Describe the importance of dressing appropriately, looking decent and positive body language,  # Describe the term grooming.  #Prepare a personal grooming checklist	charging and measurement of Specific gravity with the help of hydrometer. To find heat efficiency of an electric kettle:
Sep-25	Capacitor	Capacitor and its capacity, Concept of charging and Discharging of capacitors, Types of Capacitors and their use in circuits, Series and parallel connection of capacitors, Energy stored in a capacitor.	Solding & Desoldring of LED, switch, IC, Resistor, Capacitors etc.
	UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – III	ICT: "# Software packages for word processing, Opening and exiting the word processor, Creating a document, Numbering and bullet, Creating table, Find and replace, Page numbering, Printing document, Saving a document in various formats.	
Oct-25	Electromagnetic Effects  UNIT 4: ENTREPRENEURIAL SKILLS- III  MAIN TERM EKA ANAMA	Permanent magnets and Electromagnets, their construction and use, Polarities of an electromagnet and rules for finding them. Faraday's Laws of Electromagnetic Induction, Dynamically induced e.m.f., its magnitude and induction, Static induction, self-induced e.m.f., its magnitude and direction, inductance and its unit. Mutually induced e.m.f., its magnitude and direction, Energy stored in an inductance. Force acting on a current carrying coulductor in magnetic field, its magnitude and direction, Torque produced on a current carrying coil in a magnetic field, Principles and construction of dynamo.  4. Functions, characteristics, types of Entrepreneurial skills etc.	Measurement of resistance by ammeter and voltmeter method and Ohm meter. Dismantling and reassembly of dynamo. Calibration of ammeter, voltmeter and wattmeter with the help of standard meters.
	A.C Circuits  Soldering and Brazing		Study of series resistive circuits. Study of parallel resistive circuits
	Unit-5 Green Skills-III	Green Skills: Relationship between society and environment, ecosystem and factors causing imbalance Natural resource conservation Environment protection and conservation	

Dec-25	Measuring Instruments	Construction and working principles of moving iron and moving coil voltmeters and ammeters, dynamometer type wattmeter, ohm meter, megger and induction type energy meter- their circuit connection and application for measurement of electrical quantities, Digital Multimeter.	Charging and Discharging of a capacitor Study of R.L. series circuit and measurement of power and power factor.  Study of R.C. series circuit and measurement of power and power factor.
	Electrical Engineering Drawing	Schematic and wiring diagram for domestic simple wiring, symbols used for different electrical devices and equipments.	
	Electrical wiring	Types of wiring – cleat wiring, casing and capping, C.T.S./T.R.S. wiring, metal sheath wiring, conduit wiring and concealed wiring – their procedure.	
Jan-26	Electrical wiring	Factors of selection of a particular wiring system, importance of switch, fuse and earthing of wiring system, types of faults, their causes and remedies.  Types of earthing- plate earthing and Pipe earthing, their procedure and application.  Methods of finding numbers of circuits and circuit distribution by distribution board system, loop in system of wiring connections IE rules related to wiring.	Practicals
Feb-26	REVISION: ELECTRICAL TECHNOLOGY and Employability skills chapters	REVISION OF ELECTRICAL TECHNOLOGY REVISION OF Employability skills	
	REVISION REVISION	Revision SA - 2 Exam Revision SA - 2 Exam	L
Mar-26	1. Annual Exams of students 2. Duty in Exams	A STATE OF THE STA	