3			
MONTH	UNIT 1: Meaning of Air Conditioning 8	TOPICS COVERED THEORY 1. Orientation of vocational education and Enroiment of Students in Air Conditioning & Refrigeration. 2. Maintain Students data (Enroiment and attendance) in instructor register. 3. Creating WhatsApp Group of class students for important information. 4. Submit requirement of books as per the students head count & Book distribution 5. Working on Lesson Plan of the theory and practical 6. Monthly meeting with the Principal and Project Coordinator. 7. Submit Form 001/monthly report, Next Month's Plan, Monthly Attendance.	PRACTICAL Group discussion on scope of Air Conditioning & Refrigeration Study of tools and materials, instruments and gauges. To study the safety measures to be taken in a workshop
Jul-25	Refrigeration	Introduction – Scope of Air Conditioning & Refrigeration # Career opportunities in Air Conditioning & Refrigeration # Qualities required in a personnel willing to join Air Conditioning & Refrigeration Industry Thermodynamics and its laws, meaning of Air Conditioning and Refrigeration, Brief Air Conditioning and Refrigeration, general safety, Application of Refrigeration, Concept of System, its boundary, and surroundings, Unit of Refrigeration, specification and uses of Refrigeration tools, Equipment, Instruments. Basic knowledge of heat energy. Comparison of heat engine, heat pump and refrigeration machine. Rating of Refrigeration written, verbal and non-verbal communication Tenses, verbs and adjective # Methods of communication	Writing pros and cons of written, verbal and non-verbal communication Draw a diagram depicting the parts of speech.
	UNIT 2:REFRIGERATION CYCLE AND	Verbal Non-verbal Visual, Communication stylesassertive, aggressive, passiveaggressive, submissive, etc Activity/Q&A Vapour Compression Cycle, Representation of Vapour Compression Cycle on temperature- entropy and pressure- enthalpy diagram, Effect of sub-cooling, Super heating, change in suction pressure and discharge pressure on coefficient of	Activity/Q&A
Aug-25	UNIT 2: SELF - MANAGEMENT SKILLS -	performance, Deviation of actual cycle from the theoretical cycle. (II) Working of a Domestic Refrigerator, water cooler & Deep Freezer, Refrigeration tools and materials, tubing, cutting, bending, flaring, joining, swaging, instruments and gauges. #Describe the Importance of dressing appropriately, looking decent and positive body language, # Describe the term grooming, #Prepare a personal grooming checklist	To learn proper techniques of cutting, fitting, reaming, bending, flaring of soft and hard copper Tubing, swaging etc. To learn brazing of copper tubing.
Sep-25	UNIT 3: COMPRESSOR/UNIT 3: INFORMATION AND COMMUNICATION TECHNOLOGY SKILLS – III	Meaning of Compressors, Types of compressor-reciprocating (semi-hermetic, hermetic and open types), rotary, centrifugal and screwed type, working of compressor. (I) Compressor construction, valves, piston, connecting rods, crakshafts, seals, oil circulation, hermetic and semi-hermetic units, cooling of windings, Mufflers ICT: "# Software packages for word processing. Opening and exiting the word processor, Creating a document, Numbering and builet, Creating table, Find and replace,Page numbering, Printing document,Saving a document in various formats.	To study a hermetic unit and it's testing. Study of various types of compressors, dismantling and assembling of compressors.
Oct-25	UNIT 4:BASIC ELECTRICITY://UNIT 4: ENTREPRENEURIAL SKILLS- III	Meaning of Alternating current, D.C. Current and difference between them, Voltage, phase difference. Knowledge of Ohm's law and its representation on V-I graph, Resistance and its unit, measurement of current, voltage and power. 4. Functions, characteristics, types of Entrepreneurial skills etc.	Measurement of voltage, current, power etc. Making electric circuit diagrams for refrigerators and Air- conditioner
Nov-25	UNIT 5: PSYCHROMETRY AND HUMAN COMFORT/Unit-5 Green Skills- III	Psychrometry, composition of air, moist air, vapours and gases, specific humidity, absolute humidity, degree of saturation, relative humidity, Dry Bulb Temperature, Wet bulb Temperature, wet bulb depression, Dew point temperature, dew point depression. Green Skills: Relationship between society and environment, ecosystem and factors causing imbalance Natural resource conservation Environment protection and conservation	To study Domestic Refrigerator and water cooler. Study of window, split and package type air-conditioner
Dec-25	UNIT 5: PSYCHROMETRY AND HUMAN COMFORT UNITG:APPLICATION OF AIR CONDITIONING, MEASUREMENT OF AIR VELOCITY AND FLOW:	Human comfort, concept of effective temperature, comfort zone Applications of Air Conditioning, comfort, industrial and process Air Conditioning, study of window type air conditioners, package units, Central Air conditioning plants.	Charging and testing of Air-Conditioner.

Jan-26			
	UNIT6:APPLICATION OF AIR CONDITIONING, MEASUREMENT OF AIR VELOCITY AND FLOW:	Measurement of air velocity and flow.	Practicals
Feb-26	REVISION: Air Conditioning & Refrigeration and Employability skills chapters	REVISION OF Air Conditioning & Refrigeration REVISION OF Employability skills	
	REVISION REVISION	Revision SA - 2 Exam Revision SA - 2 Exam	
Mar-26	1. Annual Exams of students 2. Duty in Exams 3. Evaluation duty		