
Annexure I

AIR CONDITIONING

- Psychrometry
- Heat Load Estimation
- Fluid flow, Duct Design and Air Distribution Systems
- Human Comfort
- Air Conditioning Systems, Applications and Selections Scope, Factors for considerations. System components
- Fans & Blowers
- Insulation
- Installation, Charging and Maintenance of Refrigeration and Air Conditioning Systems
- Miscellaneous
 - Study of Domestic Refrigerator, Water cooler,
 - Air conditioner
 - Window
 - Split
 - Packaged
 - Variable Refrigerant Flow.
 - Desert Cooler.
 - Air Handling Units, Filters, Fan and Coil Unit.
 - Air conditioning of Houses, Offices, Hotels, Restaurants, Departmental stores. Theater, Auditoriums, Hospitals, Automobiles, Railways, Marine and Aircraft air conditioning.
 - Vibrations & Noise Control. Variable Frequency / speed drive. Thermal Storage System, Brine System.
- Heating System

Annexure II

Refrigeration

- Review of Thermodynamics
- Air Refrigeration
- Vapour Compression Refrigeration System
- Refrigerants
- Refrigeration equipment
 - Compressors
 - Condensers and Cooling Towers
 - Expansion Devices
 - Evaporators

- Vapour Absorption Refrigeration system
- Steam Jet Refrigeration
- Ice Plant and Cold Storages
- Cold chain and Food Preservation
- Production of Low Temp
- Vibrations, Noise and Noise Control

ADD ON

- Introduction to Autocad related to HVAC
- Practical Facility in our LABS
- HAP Software

Annexure III

Miscellaneous Modules

- Plumbing
- Fire Protection Systems
- Public Health Engineering
- Introduction to Indoor Air Quality
- Building Management Systems
- Green Building concepts and Energy standards
- Electrical Practices and Basics of Electrical Design
- Guide Line for Preparation of Schematic and Layout Drawings
- Solar Energy for Power generation & Domestic Hot Water Generation.
- Site Visits
- Practical Facility in our LABS
- Special Interview Training Rounds
- Personality Development Programs and Group Discussions

Trainees have to undergo 3 Assessments

- Mid term
- Practical
- End term