



ACE

CONSULTANTS AND HVAC TRAINING INSTITUTE



www.theaceindia.com

ACE is concentrating on technical guidance and placement assistance to students in the HVAC arena. We also provide assistance in academic projects. Furthermore the course content is in compliance with the industry standards.

We undertake HVAC projects as a consultant providing solutions and technical supports to clients based on the requirement.

NEW BATCH STARTS EVERY MONTH 1ST AND 15TH
"YOUR FIRST STEP TOWARDS THE **COOLEST** ENGINEERING PROFESSION"

LIMITED SEATS REGISTER NOW



JOB OPENINGS

SALES & MARKETING, PLANNING,
DESIGN, PROJECTS,
SERVICE & CUSTOMER CARE



www.theaceindia.com

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"Kerala & Karnataka's First
Exclusive **HVAC**
Training Institute"



www.theaceindia.com

HVAC training institute
HVAC consultancy
Technical support
Project assistance
HR consultancy
Overseas placements

ACE

CONSULTANTS
AND
HVAC TRAINING INSTITUTE

Affiliated To : All India Technical Education Society

Your Vision our Mission

www.theaceindia.com

100% JOB Oriented Placement Assistance

ACE HVAC training Institute is an establishment that provides a career based training programme which aims to develop quality HVAC professionals. It is an exclusive HVAC manpower training institute affiliated to All India Technical Education Society. The training programme aims to harness your skills and enhance your chance for a successful career with HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION industry. Training provided at ACE will give you the tools required to succeed in this dynamic field.

We provide **PROFESSIONAL HVAC TRAINING CERTIFICATE** in heating, ventilation, air conditioning and refrigeration on successful completion of the course.



ACADEMIC PROJECTS for graduate, and Diploma students in HVAC field

COURSES OFFERED

1. Professional HVAC training programme
2. HVAC design and drafting (cad training)

'n'
number of vacancies
awaiting you world wide



Course content

- 1. Introduction to HVACR**
 - Heating
 - Ventilation
 - Air Conditioning
 - Refrigeration
 - Fundamentals
 - Types of heat transfer
 - Refrigeration Cycle
 - Types of Condenser
 - Types of compressor
 - Types of Expansion Valves
 - Types of Evaporators
- 2. Psychrometric Chart Analysis**
- 3. Refrigerants and Brines**
- 4. Classification of Air Conditioning Systems**
 - Window A/C
 - Split A/C
 - Ductable Split Air Conditioners
 - Ductable Packaged Air Conditioners
 - Packaged Roof Top Units
 - Chill Water Systems
 - Variable Refrigerant Volume Systems
- 5. Heat Load Calculations**
 - Building Survey
 - Orientation of Buildings
 - Use of Space
 - Dimensions of the Space to Air Conditioned
 - Size of beams and columns
 - Construction material (U factors)
 - Occupancy
 - Equipment
 - Lighting
 - Ventilation
 - Indoor Air Quality
 - Heat Load Calculations Using E 20 Form
 - Tonnage Calculations
 - Dehumidified Air Flow rate
- 6. Equipment Selection**
- 7. Air Distribution System**
 - Different Types of Ducting
 - Design parameters for Ducting
 - Duct Routing and Sizing
 - Constant Friction Method
 - Velocity Reduction Method
 - Static Regain Method
 - Supply and Return Air Openings
 - Different Types of accessories
 - Different Types of Insulation
 - Constant and Variable Air Volume systems
- 8. Ventilation & Exhaust Systems**
 - Normal Ventilation Systems
 - Treated Fresh Air Ventilation System
 - Toilet Exhaust Systems
 - Kitchen Exhaust Systems
- 9. Piping**
 - Classification
 - Pipe sizing
 - Accessories Used in Piping
- 10. Static Pressure Calculations**
- 11. Pump Selection**
- 12. Air Conditioning Concepts**
 - District Cooling
 - Building Management System
 - Variable Frequency Drive
 - Stratification
 - Stairwell Pressurisation
 - clean rooms
- 13. Installation and Field Practices**
- 14. Service Practices**
 - TAB – Testing, Adjusting and Balancing
- 15. HVAC Design Softwares**
- 16. Case Studies**
- 17. Product Interface**
- 18. Different HVAC Job Profiles**
- 19. Live Projects**
- 20. Site Visits**
- 21. Interpersonal Skills**

