

HVAC Course

Course details

Description

Properly designed and operated HVAC systems are critical to support comfortable and healthy building indoor environments. This practical course will develop your knowledge of the principles of heating, ventilating, air-conditioning and refrigeration systems found in commercial building applications. Attend and learn more about HVAC technologies to help you better understand how and where they are applied.

Course structure:

HVAC Course hour

Prerequisites:

- Basic knowledge and skills about using computers.
- Mechanical engineering background is recommended

Certificates:

- Certificate from CAD MASTERS
- Certificate from Autodesk

Grading:

Attendance 40%

Assignments 60%

To pass the course and receive both Autodesk certificate & CAD MASTERS certificate you should:

- Attend at least 80% of course hours
- Score more than 70% as a total score

Course Objectives:

1. Calculation of cooling load (HAP software)
2. Systems of air conditioning
3. Duct design
4. Air outlets selection
5. Ventilation design (kitchens-garages-baths)
6. Fans Selection
7. Chilled water system
8. Piping design
9. Hock up of chillers, AHU and FCU
10. Pumps Selection
11. Chillers selection
12. Cooling tower selection
13. How to read drawing of HVAC system
14. VAV system
15. VRV system
16. Design steps of HVAC system in a project