

SYLLABUS :-

Introduction, history; Review of fundamental principles: Thermodynamics, Fluid flow, Heat Transfer; Principles of psychrometry, psychrometry of air conditioning processes; Health and comfort criteria, thermal comfort, comfort chart; Selection of indoor and outdoor design conditions; Solar radiation, solar time, solar angles, direct beam and diffuse solar radiation, sol-air temperature; Cooling and heating load calculations; Air conditioning systems, evaporative, winter and all-year air conditioning systems, selection of systems; Ventilation for cooling; Transmission and distribution of air, duct design.