

Fundamentals of HVAC Systems

Course Code:

ME 423

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Thermodynamics II [1]

Heat Transfer [2]

Course Content:

Thermodynamics and psychrometrics, basic HVAC systems calculations, indoor and outdoor design conditions, load estimating fundamentals, heating and cooling load, energy estimating methods: the degree day method and bin method. Thermal properties of building materials.