

Plumbing

Syllabus

Introduction to Plumbing System

- Cold Water, Gray Water System, Sewage System, Hot Water Circulating System, Irrigation System, Storm Water System

Common Sanitary Fixture Details

- Lavatories, Water Closet, Showers, Sinks, Bathtubs, Bidets, Urinals, Floor drains, Layout of Sanitary fixtures in toilets

BASIC OF FLUID MECHANICS

- Types of Flow
- Types of water
- Continuity Equation
- Units & conversation
- hazen williams formula
- Manning's formula

Sprinklers

- Types of sprinklers
- distribution of sprinkler
- fitting used in sprinkler system

Pipe sizing

- Thumb rules
- Fixture method
- Velocity plumbing pipes
- Pipe sizing Excel Program
- Cold Water System, Hot water system, Gray system Irrigation system, Strom water System
- hydraulic calculation

PUMP SELECTION

- Type of pumps
- Pump laws
- Pump selection
- Transfer pump
- Booster pump

- Circulation pump
- Pressurize tank sizing

Drainage System

- Overviews
- Types of pipe
- Slope in drainage system

DRAINAGE EQUIPMENTS

- Grease interceptor details
- Oil interceptor details
- Sewage ejector system details
- Septic tank details

DRAINAGE FITTING AND ACCESSORIES

- Traps and fittings

DRAINAGE PIPE SIZING

- Branch pipe sizing
- Stack sizing
- Project

Drainage pipe calculation

- Hydraulic calculation
- combined system calculation

TANK SIZING

- Ground level tank (or) sump
- Over head tank
- 7-tank piping (filling , over flow & vent)