

AS323 **Building Services-I (3-0-0)**

(water supply and sanitation)

To impart the knowledge and skills required for understanding the building services of water supply and sanitation and their integration with architectural design.

Module-1

Water supply - General idea of sources of water supply: qualitative and quantitative aspects, Impurities, hard and soft water treatment and distribution systems
Domestic water supply systems, sump, overhead tank, pipe size, pipe fittings.
Cold water and hot water supply for multistoried buildings, types of taps, types of valves etc. provision for fire fighting and code requirements.

Module -2

Sanitation
Importance; refuse types; collection and disposal. Basic principles of sanitation and disposal of waste water from buildings. Urban and rural drainage and sanitation, different collection and disposal systems.

Module - 3

A brief on sewage treatment, septic tanks, oxidation ponds, soak pits, aqua privy, manholes, inspection chambers, intercepting chamber, cast iron manholes, Self cleansing velocity, drains on sloping sites, subsoil drainage, garage drainage and layout of simple drainage systems and testing of drains.

Module - 4

Sewers, materials, workmanship, laying and testing of sewers; Cleaning of sewers; ventilation of sewers; sewer recycling of water.

Site visits - Water treatment plant, Sewage treatment plant.

Multistoried apartments for studying water supply and sanitary arrangements.