

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma in Architectural Assistantship

Semester: 4

Subject Name BUILDING SERVICES - I

Sr. No.	Course content
1.	DOMESTIC WATER SUPPLY 1.1 Sources of water and uses 1.2 Consumption or Demand of water for domestic purpose. 1.3 Different methods of water distribution 1.4 Water Supply fittings and fixtures. 1.5 House - service design and its connection from mains. 1.6 Pipes of different materials used for Water supply. 1.7 Hydrants and Water meters.
2.	SANITATION AND HOUSE DRAINAGE: 2.1 Systems of drainage: (1) Combined and separate systems (2) Domestic drains - flushing of drains and sewers. 2.2 House drainage (1) Types of Trap - materials and functions. (2) Inspection Chamber. (3) Ventilation of House-drainage. (4) Intercepting traps, gully traps, grease traps. (5) Anti-Syphonage or Vent Pipes. (6) One and two pipe systems. (7) Sinks, Baths, Water Closets, Flushing Cisterns, Urinals, Lavatory basins. 2.3 Principles of House Drainage. 2.4 Septic Tank - Soak pit. 2.5 Manholes: • Spacing of manholes • Sizes of manholes • Manhole cover • Ventilation of sewers
3.	ELECTRICAL LAY-OUT AND FITTINGS FOR BUILDING: 3.1 Various systems of wiring and their suitability 3.2 Precautions to avoid Electrical accident. 3.3 Electrical Lay-out of building.

TERM WORK:

The Term work shall consist of 4 sheets

- (1) Sheet No.1 Domestic Water Supply (Working Drawing)
- (2) Sheet No.2 & 3 Various types of traps and their Connection - Septic Tank-soak pit connected to a building.
- (3) Sheet No.4 - Working drawing of Electrical Lay-out.

Reference Books:

Sr. No.	Name of Books	Author
1.	Building Construction	Sushil kumar
2.	Building Construction Vol 1,2,3,4.	W.B.Mckay
3.	Elementary Building Construction	Mitchell
4.	Building Construction	S.P. Arora & S.B.Bindra
5.	Building Construction	Medlycol
6.	Building Construction	Rangwala