

SERVICES RESIDENCES & ESTABLISHMENTS

Paper no.- HSRM – 402

CC -11

Credits -3 +1=4

Sem. – 4 (M.Sc. R.M.)

Marks – 100 +50= 150

OBJECTIVES

- ❖ To familiarize the students with the various services in residences and other establishments.
- ❖ To analyze the services with respect to design cost and maintenance.

UNIT : 1 Water supply system.

- Water supply system to residential buildings.
- Water tanks, water pipes, traps used in water supply.
- Bye – laws related to water supply.
- Types of drainage lay out.

UNIT : 2 Electric layout and wiring systems .

- Types of wires and conduits.
- Wiring systems – wiring for fans and tube light.
- Wiring for domestic appliances .

Special service.

- Types of air conditioning.
- Air condition ducting layout.
- Bye – laws related to electricity.

UNIT : 3 Fire Fighting.

- Fixtures and fittings – Vermi Composting.
- Fire fighting layouts – Vermi Culture.

- Fire fighting layout

UNIT : 4

- Acoustic materials.
- Techniques of implementing acoustic treatment.
- Techniques of inter communication system.
- Garbage disposal for multi – storied buildings.

PRACTICALS

- 1) Study of water supply system, drainage system and electrical layout.
- 2) Preparation and electrical layout.
- 3) Preparation and maintenance of compost pits few garbage disposal – Vermiculture.
- 4) Layout for inter – communication system.

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- 2 Pangwala S.C. (1992) Water supply & Sanitary, Engineering charot ar publishing House, Anand.
- 3 Patil, S.M (1995) – Plumbing Engineering, Seana Publications , Bombay.
- 4 Kamala, A. and kanthorao, D.L. (1988) Environmental Engineering Water Supply, Sanitary Engineering & Pollution, Tata Mc Graw – Hill Publishing Company Ltd., New Delhi.
- 5 Hussain, S.K. (1974) Text Book of water supply sanitary Engineering, oxford & TBH publishing co. pvt. Ltd. New Delhi.
- 6 Anwali, P.M. (1981) Electrical Appliances Theory & Repair, R.B. Publications, New Delhi.
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