AMAG24 MICRO IRRIGATION SYSTEM DESIGN

UNIT-1 PAST, PRESENT AND FUTURE NEED OF MICRO IRRIGATION SYSTEMS

- 1.1 Role of Govt. for the promotion of micro irrigation in India,
- 1.2 Merits and demerits of micro irrigation system.

UNIT-2 TYPES AND COMPONENTS OF MICRO IRRIGATION SYSTEM

- 2.1 Micro irrigation system design, installation, and maintenance.
- 2.2 Sprinkler irrigation types, planning factors, uniformity and efficiency,
- 2.3 Laying pipeline, hydraulic lateral, sub mains and main line design, pump and power unit selection.

UNIT-3 DRIP IRRIGATION STITUTION OF Engin

- 3.1 Potential, automation, crops suitability.
- 3.2 Fertigation- Fertilizer application criteria,
- 3.3 Suitability of fertilizer compounds,
- 3.4 Fertilizer mixing, injection duration, red Engineer India
- 3.5 Rate and frequency, capacity of fertilizer tank.

UNIT-4 QUALITY CONTROL IN MICRO IRRIGATION COMPONENTS

- 4.1 Design and maintenance of polyhouse,
- 4.2 Importance and application of polyhouse.

UNIT-5 PROSPECTS OF WASTE LAND DEVELOPMENT

- 5.1 Hills, semi-arid, coastal areas,
- 5.2 Water scarce areas, Benefit and Cost analysis.

Reference Books:

- 1. Larry, G.J. (1982). Principles of Farm Irrigation System Design. John Wiley Sons, New York.
- 2. Michael, A.M. (1986). Irrigation Theory and Practice. Vikas Publishing House, New Delhi.
- 3. Sivanappan, R.K. (1987). Sprinkler irrigation. Oxford & IBH Publishing Company, New Delhi.