

AI3602 - Irrigation and Drainage Engineering Syllabus

01. Water Resources And Irrigation Requirement

Water Resources- River basins-Development and Utilization in India and Tamil Nadu-Irrigation - duty and delta - Rooting characteristics - Moisture use of crop, Evapotranspiration - ET plot - Crop water requirement - Effective rainfall - Scheduling - Irrigation requirement - Irrigation frequency, Irrigation efficiencies.

02. Methods Of Irrigation

Methods of Irrigation - Surface and Subsurface methods - Drip and Sprinkler - Hydraulics and design - Erodible and non-erodible, Kennedy's and Lacey's theories, Materials for lining water courses and field channel, Water control and diversion structure - Underground pipeline irrigation system.

03. Diversion And Impounding Structures

Head works -Weirs and Barrage -Types of impounding structures - Factors affecting, location of dams -Forces on a dam -Design of Gravity dams- Earth dams, Arch dams - Spillways -Energy dissipaters.

04. Canal Irrigation And Command Area Development

Classification of canals- Alignment of canals - Design of irrigation canals- Regime theories Canal Headworks - Canal regulators - Canal drops - Cross drainage works - Canal Outlet, Escapes -Lining and maintenance of canals - Excess irrigation and waterlogging problem Command area - Concept, Components of CADP - On Farm Development works, Farmer's committee - its role for water distribution and system operation - rotational irrigation system.

05. Agricultural Drainage

Agricultural drainage - Drainage coefficient; principles of flow through soils, Darcy's law - infiltration theory, Surface drainage systems - Subsurface drainage - Design of subsurface drainage - Pipe materials - mole drains, drainage wells, Leaching requirements - irrigation and drainage water quality - recycling of drainage water for irrigation.

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