

# 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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# Irrigation Engineering Syllabus

**Marcel A. Müller**



## **Irrigation Engineering Syllabus:**

*Irrigation Engineering* Balram Panigrahi, 2021-08-27 This text book is designed to guide students from a basic knowledge of soil water plant hydrologic and hydraulics to the state of the art of irrigation system design planning and management The book will be helpful to the students of Agriculture Agricultural and Civil Engineering and other related fields The book is written in simple and lucid languages which will make the students interesting in reading the book and understanding the concept of farm irrigation very effectively The book is written covering the entire syllabus of Irrigation Engineering which is taught in various State Agricultural Universities and is written as per the recommended syllabus of fifth Deans Committee meeting of Indian Council of Agricultural Research ICAR New Delhi The book will not only be helpful to the students at under graduate and post graduate level but also will be a helping tool for all practicing irrigation engineers agriculturists design engineers researchers extension personnel and all others who are directly or indirectly associated with irrigation science and engineering

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