

# 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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## **Table of Contents Irrigation Engineering Syllabus**

1. Understanding the eBook Irrigation Engineering Syllabus
  - The Rise of Digital Reading Irrigation Engineering Syllabus
  - Advantages of eBooks Over Traditional Books
2. Identifying Irrigation Engineering Syllabus
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Irrigation Engineering Syllabus
  - User-Friendly Interface
4. Exploring eBook Recommendations from Irrigation Engineering Syllabus
  - Personalized Recommendations
  - Irrigation Engineering Syllabus User Reviews and Ratings
  - Irrigation Engineering Syllabus and Bestseller Lists

5. Accessing Irrigation Engineering Syllabus Free and Paid eBooks
  - Irrigation Engineering Syllabus Public Domain eBooks
  - Irrigation Engineering Syllabus eBook Subscription Services
  - Irrigation Engineering Syllabus Budget-Friendly Options
6. Navigating Irrigation Engineering Syllabus eBook Formats
  - ePub, PDF, MOBI, and More
  - Irrigation Engineering Syllabus Compatibility with Devices
  - Irrigation Engineering Syllabus Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Irrigation Engineering Syllabus
  - Highlighting and Note-Taking Irrigation Engineering Syllabus
  - Interactive Elements Irrigation Engineering Syllabus
8. Staying Engaged with Irrigation Engineering Syllabus
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Irrigation Engineering Syllabus
9. Balancing eBooks and Physical Books Irrigation Engineering Syllabus
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Irrigation Engineering Syllabus
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Irrigation Engineering Syllabus
  - Setting Reading Goals Irrigation Engineering Syllabus
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Irrigation Engineering Syllabus
  - Fact-Checking eBook Content of Irrigation Engineering Syllabus
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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