

## Syllabus: Water Resource Management

### Course Content

- Introduction – Scope and advantages of Groundwater- Aquifer- Infiltration - Water table – forms of water.
- Hydrologic cycle- sources of Groundwater- Origin and occurrence of groundwater. Water conservation
- Water harvesting - Rainwater harvesting - Groundwater harvesting methods of harvesting-Rural and Urban. Drip irrigation. Water-wise habits
- Water Quality – standards of water for different uses- Drinking purposes Irrigation purposes- Industrial purposes
- Water Pollution- Introduction- Types of pollution- controlling methods

### References:

1. Water Resources Engineering by Larry W. Mays
2. Water: The Epic Struggle for Wealth, Power, and Civilization by Steven Solomon
3. Water 4.0: The Past, Present, and Future of the World's Most Vital Resource by David Sedlak

