

CE 538 Water Systems Engineering

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Week	Topic
1	Introduction
2	Components of Water Systems
3	Drought and Flood management
4	Remote Sensing and GIS for Water Resources Management
5-6	QGIS Applications for Water Resources Planning
7	Data Requirement for Water Supply Projects
8-9	Preparation of Data for Project Formulation Using R Programming
9	General Optimization Concepts
10	Optimization Methods
11	Basic Optimization Models for Water Resources Management
12-13	Reservoir Operation Models
14	Class Presentations