## Water Resources Engineering - Video course

	NP-TEL
Precipitation, Infiltration and Evapotranspiration (8	
Eorms of precipitation measurement depth-area-duration and	NIDTEI
intensity	INPIEL
duration- frequency relations	
<ul> <li>Infiltration process, measurement, and estimation</li> <li>Infiltration process, measurement, and estimation</li> </ul>	http://nptel.ac.in
• Evapotranspiration measurement and estimation	
Runoff and Hydrographs (8 Lectures)	Civil
Rainfall Runoff correlations, Flow duration curve, Mass curve,	
Droughts and floods	Engineering
• Factors anecung now hydrograph, onit hydrograph, its analysis, and S-	3
curve hydrograph, Synthetic and instantaneous unit hydrographs	
Statistical analysis, Hydrologic Routing (7	
<ul> <li>Risk, reliability, and safety factor, Flood frequency studies, Flood</li> </ul>	Coordinators:
forecasting, Rational method, Time Area curves, Design flood	
• Channel and flood routing Groundwater hydrology (5	Department of Civil Engineering
Lectures)	Kanpur
Flow equations Confined and unconfined flow     Moll by drawling     Stoady, and unchandy, flow     Moll by drawling	Prof Pajoch Srivastava
<ul> <li>Well hydraulics Steady and unsteady now, well losses, specific capacity</li> </ul>	Department of Civil EngineeringIIT
Irrigation Engineering (6	Kanpur
• Water requirement of crops	
Hydrologic aspects of irrigation system design	
Hydrologic design (6	
Design of culverts, detention ponds, storm water drains	
Economics of Water Resources systems	
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