NPTEL Video Course - Civil Engineering - NOC:Water and Waste Water Treatment

Subject Co-ordinator - Prof. Bhanu Prakash Vellanki

Co-ordinating Institute - IIT - Roorkee

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 30 - Disinfection By-products (DBPs) and Disinfectant Removal
Lecture 31 - Water demand
Lecture 32 - Water Quality Parameters
Lecture 33 - Overview of Water Treatment
Lecture 34 - Physico-Chemical treatment
Lecture 35 - Coagulation - I
Lecture 36 - Coagulation - II
Lecture 37 - Rapid Mixing
Lecture 38 - Flocculation - I
Lecture 39 - Flocculation - II
Lecture 40 - Flocculent settling
Lecture 41 - Filtration
Lecture 42 - Depth filtration
Lecture 43 - Design of Sand filter and Surface filtration
Lecture 44 - Disinfection
Lecture 45 - Hardness - I
Lecture 46 - Hardness - II
Lecture 47 - Lime-Soda softening - I
Lecture 48 - Lime-Soda softening - II
Lecture 49 - Recarbonation
Lecture 50 - Types of Softening Basin and Adsorption
Lecture 51 - Adsorption
Lecture 52 - Adsorption Isotherms
Lecture 53 - Ion Exchange
Lecture 54 - Nanofiltration and RO
Lecture 55 - Aeration: Removal of Fe and Mn
Lecture 56 - Residual Management
Lecture 57 - Sludge Thickening
Lecture 58 - Stabilization of Sludge
Lecture 59 - Anaerobic and Aerobic digestion of sludge
Lecture 60 - Conditioning, Dewatering and Disposal of Sludge