

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Chemical Engineering - NOC:Physico-Chemical Processes for Waste Water Treatment

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Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Introduction to Water Pollution and Control
- Lecture 2 - Environmental Acts and Standards
- Lecture 3 - Water Quality Monitoring: Physical Parameters
- Lecture 4 - Water Quality Monitoring: Physical and Chemical Parameters
- Lecture 5 - Water Quality Monitoring: Chemical Parameters - I
- Lecture 6 - Water Quality Monitoring: Chemical Parameters - II
- Lecture 7 - Water Quality Monitoring: Biological/Biochemical Parameters - I
- Lecture 8 - Water Quality Monitoring: Biological/Biochemical Parameters - II
- Lecture 9 - Water Quality Monitoring: Bacteriological Parameters
- Lecture 10 - Treatment of Water and Wastewater
- Lecture 11 - Flow Equalization
- Lecture 12 - Aeration - I
- Lecture 13 - Aeration - II
- Lecture 14 - Aeration - III
- Lecture 15 - Aeration - IV
- Lecture 16 - Aeration - V
- Lecture 17 - Aeration - VI
- Lecture 18 - Coagulation and Flocculation - I
- Lecture 19 - Coagulation and Flocculation - II
- Lecture 20 - Coagulation and Flocculation - III
- Lecture 21 - Coagulation and Flocculation - IV
- Lecture 22 - Settling and Sedimentation - I
- Lecture 23 - Settling and Sedimentation - II
- Lecture 24 - Settling and Sedimentation - III
- Lecture 25 - Settling and Sedimentation - IV
- Lecture 26 - Settling and Sedimentation - V
- Lecture 27 - Settling and Sedimentation - VI
- Lecture 28 - Filtration - I
- Lecture 29 - Filtration - II

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- Lecture 30 - Filtration - III
- Lecture 31 - Adsorption - I
- Lecture 32 - Adsorption - II
- Lecture 33 - Adsorption - III
- Lecture 34 - Adsorption - IV
- Lecture 35 - Adsorption - V
- Lecture 36 - Adsorption - VI
- Lecture 37 - Ion-exchange - I
- Lecture 38 - Ion-exchange - II
- Lecture 39 - Ion-exchange - III
- Lecture 40 - Ion-exchange - IV
- Lecture 41 - Wastewater treatment by membrane processes - I
- Lecture 42 - Wastewater treatment by membrane processes - II
- Lecture 43 - Wastewater treatment by membrane processes - III
- Lecture 44 - Wastewater treatment by membrane processes - IV
- Lecture 45 - Wastewater treatment by membrane processes - V
- Lecture 46 - Advanced Oxidation Processes (AOP) - Introduction
- Lecture 47 - AOP - Photocatalytic wastewater treatment
- Lecture 48 - AOP - Fenton, ozone and catalytic treatment
- Lecture 49 - AOP - Electrochemical wastewater treatment - I
- Lecture 50 - AOP - Electrochemical wastewater treatment - II
- Lecture 51 - AOP - Sono-hybrid wastewater treatment
- Lecture 52 - Disinfection - I
- Lecture 53 - Disinfection - II
- Lecture 54 - Disinfection - III
- Lecture 55 - Case Study - Wastewater treatment in sugar industry
- Lecture 56 - Case Study - Wastewater treatment in distillery
- Lecture 57 - Case Study - Wastewater treatment in fertilizer industry
- Lecture 58 - Case Study - Wastewater treatment in petroleum refining industry
- Lecture 59 - Case Study - Common effluent treatment plant (CETP)
- Lecture 60 - Choice of technology and summary