

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

NPTEL Video Course - Chemical Engineering - NOC:Mechanical Unit Operations

Subject Co-ordinator - Prof. Nanda Kishore

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction of Particulate Solids  
Lecture 2 - Particle Size  
Lecture 3 - Particle Shape and Density  
Lecture 4 - Screening  
Lecture 5 - Size Analysis by Screening  
Lecture 6 - Screening Equipment, Effectiveness and Capacity  
Lecture 7 - Methods of Size Reduction  
Lecture 8 - Equipment for Size Reduction - Crushers  
Lecture 9 - Equipment for Size Reduction - Gridners  
Lecture 10 - Equipment for Size Reduction - Ultrafine Grinders and Cutting Machines  
Lecture 11 - Storage of Bulk Solids  
Lecture 12 - Solids Flow Out and their Flow Patterns  
Lecture 13 - Conveying of Bulk Solids  
Lecture 14 - Size Enlargement Methods  
Lecture 15 - Size Enlargement Equipment - 1  
Lecture 16 - Size Enlargement Equipment - 2  
Lecture 17 - Flow past Immersed Solid Objects  
Lecture 18 - Motion of Particles through Fluids - 1  
Lecture 19 - Motion of Particles through Fluids - 2  
Lecture 20 - Motion of Particles through Fluids - 3  
Lecture 21 - Flow through Beds of Solids - 1  
Lecture 22 - Flow through Beds of Solids - 2  
Lecture 23 - Flow through Fluidized Beds - 1  
Lecture 24 - Flow through Fluidized Beds - 2  
Lecture 25 - Filtration  
Lecture 26 - Principles of Cake Filtration - 1  
Lecture 27 - Principles of Cake Filtration - 2  
Lecture 28 - Filtration Equipment  
Lecture 29 - Cross Flow Filtration - 1

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Lecture 30 - Cross Flow Filtration - 2  
Lecture 31 - Gravity Sedimentation - Classifiers  
Lecture 32 - Gravity Sedimentation - Design of Thickeners - 1  
Lecture 33 - Gravity Sedimentation - Design of Thickeners - 2  
Lecture 34 - Centrifugal Separations - 1  
Lecture 35 - Centrifugal Separations - 2  
Lecture 36 - Floatation - 1  
Lecture 37 - Floatation - 2