

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

NPTEL Video Course - Ocean Engineering - NOC:Surface Facilities for Oil and Gas Handling

Subject Co-ordinator - Prof. Abdus Samad

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction to Oil and Gas - 1  
Lecture 2 - Introduction to Oil and Gas - 2  
Lecture 3 - Drilling and Completion - 1  
Lecture 4 - Drilling and Completion - 2  
Lecture 5 - Well Completion  
Lecture 6 - Basics of Surface Facilities  
Lecture 7 - Fluid Properties  
Lecture 8 - Introduction to Separators - 1  
Lecture 9 - Introduction to Separators - 2  
Lecture 10 - Flow Control - 1  
Lecture 11 - Flow Control - 2  
Lecture 12 - Principle of Separation - 1  
Lecture 13 - Principle of Separation - 2  
Lecture 14 - Heat calculations for separation  
Lecture 15 - Fluid Properties and Two-Phase Separator - 1  
Lecture 16 - Fluid Properties and Two-Phase Separator - 2  
Lecture 17 - Introduction to Separators  
Lecture 18 - Horizontal Separator and Sizing - 1  
Lecture 19 - Horizontal Separator and Sizing - 2  
Lecture 20 - Horizontal Separator and Sizing: Numerical  
Lecture 21 - Three Phase Separation - 1  
Lecture 22 - Three Phase Separation - 2  
Lecture 23 - Vertical Separator Sizing - 1  
Lecture 24 - Vertical Separator Sizing - 2  
Lecture 25 - Horizontal and Vertical Separator: Numerical  
Lecture 26 - Heater Treater - 1  
Lecture 27 - Heater Treater - 2  
Lecture 28 - Gunbarrel  
Lecture 29 - Gunbarrel: Numericals

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- Lecture 30 - Heat Calculation - 1
- Lecture 31 - Heat Calculation - 2
- Lecture 32 - Introduction to Electrostatic Treater - 1
- Lecture 33 - Introduction to Electrostatic Treater - 2
- Lecture 34 - Heater Treater and Gunbarrel - 1
- Lecture 35 - Heater Treater and Gunbarrel - 2
- Lecture 36 - Heater Treater and Gunbarrel: Numerical - Part 1
- Lecture 37 - Heater Treater and Gunbarrel: Numerical - Part 2
- Lecture 38 - Desalting of Crude Oil - 1
- Lecture 39 - Desalting of Crude Oil - 2
- Lecture 40 - Water Treatment - 1
- Lecture 41 - Water Treatment - 2
- Lecture 42 - Produced Water Treatment - 1
- Lecture 43 - Produced Water Treatment - 2
- Lecture 44 - Produced Water Treatment - 3
- Lecture 45 - Produced Water Treatment: Numerical
- Lecture 46 - Natural Gas Processing - 1
- Lecture 47 - Natural Gas Processing - 2
- Lecture 48 - Acid Gas Treating
- Lecture 49 - Amine System for Gas Sweetening - 1
- Lecture 50 - Amine System for Gas Sweetening - 2
- Lecture 51 - Gas Dehydration
- Lecture 52 - Crude Oil Storage Facilities - 1
- Lecture 53 - Crude Oil Storage Facilities - 2
- Lecture 54 - Crude Oil Storage Facilities - 3
- Lecture 55 - Flow Measurement Techniques - 1
- Lecture 56 - Flow Measurement Techniques - 2
- Lecture 57 - Heat Transfer Mechanisms
- Lecture 58 - Thermodynamic Laws
- Lecture 59 - Introduction to Heat Exchanger - 1
- Lecture 60 - Introduction to Heat Exchanger - 2
- Lecture 61 - Introduction to Heat Exchanger - 3
- Lecture 62 - Introduction to Heat Exchanger - 4
- Lecture 63 - Pressure Vessel - 1
- Lecture 64 - Pressure Vessel - 2
- Lecture 65 - Pressure Vessel - 3
- Lecture 66 - Wall Thickness Criteria
- Lecture 67 - Introduction to Pumps - 1
- Lecture 68 - Introduction to Pumps - 2

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

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- Lecture 69 - Introduction to Pumps - 3
- Lecture 70 - Introduction to Reciprocating Pumps
- Lecture 71 - Introduction to Compressor
- Lecture 72 - Introduction to IC/CI Engine - 1
- Lecture 73 - Introduction to IC/CI Engine - 2