

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

NPTEL Video Course - Chemical Engineering - NOC:Artificial Lift

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
- Lecture 2 - Drilling and Completion
- Lecture 3 - Well completion
- Lecture 4 - Oil and gas production systems
- Lecture 5 - Pumps, compressors and flow through pipes
- Lecture 6 - Reservoir fluid
- Lecture 7 - Fluid properties and Phase diagram - Part 1
- Lecture 8 - Fluid properties and Phase diagram - Part 2
- Lecture 9 - Nodal analysis
- Lecture 10 - Reservoir deliverability - Single phase flow
- Lecture 11 - Reservoir deliverability - Two phase flow
- Lecture 12 - Flow over a flat surface or flow through pipe - Part 1
- Lecture 13 - Flow over a flat surface or flow through pipe - Part 2
- Lecture 14 - Single-Phase, Multi-Phase-Emulsion
- Lecture 15 - Emulsification and demulsification
- Lecture 16 - Single and Multi Phase flow-flow regimes
- Lecture 17 - Multi phase flow-flow models
- Lecture 18 - Choke Performance
- Lecture 19 - Pump classifications
- Lecture 20 - Classification of artificial lifts - Part 1
- Lecture 21 - Classification of artificial lifts - Part 2
- Lecture 22 - Sucker rod pump (SRP) - Part 1
- Lecture 23 - Sucker rod pump (SRP) - Part 2
- Lecture 24 - Sucker rod pump (SRP) - Part 3
- Lecture 25 - Sucker rod pump (SRP) - Part 4
- Lecture 26 - Sucker rod pump (SRP) - Part 5
- Lecture 27 - Sucker rod pump (SRP) - Part 6
- Lecture 28 - SRP-Pump performance analysis - Part 1
- Lecture 29 - SRP-Pump performance analysis - Part 2

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- Lecture 30 - SRP-Pump performance analysis - Part 3
- Lecture 31 - Introduction to progressive cavity pump
- Lecture 32 - Progressive cavity Pump - Part 1
- Lecture 33 - Progressive cavity Pump - Part 2
- Lecture 34 - Progressive cavity Pump - Part 3
- Lecture 35 - Progressive cavity Pump - Part 4
- Lecture 36 - Progressive cavity Pump - Part 5
- Lecture 37 - Electric submersible pump - Part 1
- Lecture 38 - Electric submersible pump - Part 2
- Lecture 39 - Electric submersible pump - Part 3
- Lecture 40 - ESP- basic electrical systems - Part 1
- Lecture 41 - ESP- basic electrical systems - Part 2
- Lecture 42 - ESP- basic electrical systems - Part 3
- Lecture 43 - ESP- numerical problems - Part 1
- Lecture 44 - ESP- numerical problems - Part 2
- Lecture 45 - ESP- numerical problems - Part 3
- Lecture 46 - ESP- numerical problems - Part 1
- Lecture 47 - ESP- numerical problems - Part 2
- Lecture 48 - Gas lift basics - Part 1
- Lecture 49 - Gas lift basics - Part 2
- Lecture 50 - Gas lift valves and installation - Part 1
- Lecture 51 - Gas lift valves and installation - Part 2
- Lecture 52 - Plunger lift and design
- Lecture 53 - Hydraulic jet pump fundamentals - Part 1
- Lecture 54 - Hydraulic jet pump fundamentals - Part 2
- Lecture 55 - Hydraulic engine pumps and design - Part 1
- Lecture 56 - Hydraulic engine pumps and design - Part 2
- Lecture 57 - Surface pump units for jet pump - Part 1
- Lecture 58 - Surface pump units for jet pump - Part 2
- Lecture 59 - Surface pump units for jet pump - Part 3
- Lecture 60 - Surface compressor for gas lift - Part 1
- Lecture 61 - Surface compressor for gas lift - Part 2
- Lecture 62 - Surface compressor for gas lift - Part 3