

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

NPTEL Video Course - Chemical Engineering - NOC:Chemical Process Safety

Subject Co-ordinator - Dr. Shishir Sinha

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Safety and Accident Loss Statistics  
Lecture 2 - Risk Management and Hazardous Substance Rules  
Lecture 3 - Nature of Accident and major disasters  
Lecture 4 - Fundamental Principles  
Lecture 5 - Problems related to Safety and Accident Loss Statistics  
Lecture 6 - Toxicology  
Lecture 7 - Toxicology  
Lecture 8 - Dose Response Relationship  
Lecture 9 - Dose Response and Threshold Dose  
Lecture 10 - Industrial Hygiene  
Lecture 11 - Material Safety Data Sheet - I  
Lecture 12 - Material Safety Data Sheet - II  
Lecture 13 - Industrial Hygiene  
Lecture 14 - Noise, vibration and Radiation  
Lecture 15 - Industrial Hygiene  
Lecture 16 - Problems related to Industrial Hygiene  
Lecture 17 - Introduction to Source Models  
Lecture 18 - Source Models for Gas  
Lecture 19 - Source Models for Pool Boiling  
Lecture 20 - Source Model Problems  
Lecture 21 - Fire and Explosions  
Lecture 22 - Fire and Explosions  
Lecture 23 - Explosion and its Classification - I  
Lecture 24 - Explosion and its Classification - II  
Lecture 25 - Fire Extinguishers - I  
Lecture 26 - Fire Extinguishers - II  
Lecture 27 - Problems related to Fire and Explosion  
Lecture 28 - Designs to prevent Fire and Explosion  
Lecture 29 - Designs to prevent Fire and Explosion

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- Lecture 30 - General Design Methods to prevent Fire
- Lecture 31 - Sprinklers - I
- Lecture 32 - Sprinklers - II
- Lecture 33 - Introduction to Reliefs
- Lecture 34 - Type of Reliefs
- Lecture 35 - Relief Scenario
- Lecture 36 - Relief Sizing
- Lecture 37 - Hazard and Hazard Identification
- Lecture 38 - Hazard Identification Methods and HAZOP
- Lecture 39 - Safety Reviews and Risk Assessment - I
- Lecture 40 - Risk Assessment - II
- Lecture 41 - Review of Probability Theory
- Lecture 42 - Event Trees
- Lecture 43 - Fault Trees
- Lecture 44 - Cause Consequence Analysis and Layer of Protection Analysis
- Lecture 45 - Bow-Tie Analysis
- Lecture 46 - Accident Research
- Lecture 47 - Accident Causation Theories
- Lecture 48 - Accident Investigation Procedure - I
- Lecture 49 - Accident Investigation Procedure - II
- Lecture 50 - Jaipur Terminal Fire, India
- Lecture 51 - The Flixborough UK, Cyclohexane Disaster
- Lecture 52 - Seveso Accident
- Lecture 53 - The Chernobyl Nuclear Disaster
- Lecture 54 - Bhopal Gas Tragedy
- Lecture 55 - Bhopal Gas Tragedy
- Lecture 56 - Nuclear Radiation
- Lecture 57 - Process Safety Management
- Lecture 58 - Personal Protective Equipments
- Lecture 59 - Safety
- Lecture 60 - Nuclear Disaster