

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

NPTEL Video Course - Ocean Engineering - Ocean Structures and Materials

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction and objectives
Lecture 2 - Fixed type offshore structures
Lecture 3 - Compliant type offshore structures - I
Lecture 4 - Compliant type offshore structures - II
Lecture 5 - Drill ships and basics of drilling
Lecture 6 - Subsea production systems
Lecture 7 - Environmental loads - I
Lecture 8 - Environmental loads - II
Lecture 9 - Types of coastal structures - I
Lecture 10 - Types of coastal structures - II
Lecture 11 - Summary of coastal structures
Lecture 12 - Tutorials on Module - I
Lecture 13 - Outline of planning of ocean structures
Lecture 14 - Introduction to design
Lecture 15 - Construction techniques
Lecture 16 - Dredging - I
Lecture 17 - Dredging - II
Lecture 18 - Uncertainties in analysis and design
Lecture 19 - Design adequacy - Example I
Lecture 20 - Design adequacy - Example II
Lecture 21 - Dredging equipments' specifications
Lecture 22 - Ocean Pollution
Lecture 23 - Foundation and sea bed anchors
Lecture 24 - Introduction to materials - I
Lecture 25 - Introduction to materials - II
Lecture 26 - Concrete in marine environment
Lecture 27 - Concrete
Lecture 28 - Repair materials for marine structures
Lecture 29 - Corrosion in concrete - I

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- Lecture 30 - Corrosion in concrete - II
- Lecture 31 - Material sin repair and rehabilitation
- Lecture 32 - Materials for special repair
- Lecture 33 - New materials for coastal embankments - I
- Lecture 34 - New materials for coastal embankments - II
- Lecture 35 - Non-destructive testing
- Lecture 36 - Structural health monitoring
- Lecture 37 - Wireless sensor networking
- Lecture 38 - Repair and rehabilitation-Fenders