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

NPTEL Video Course - Ocean Engineering - Marine Construction and Welding

Subject Co-ordinator - Prof. N.R. Mandal
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable  |  MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to ships & offshore structures
Lecture 2 - Characteristics of shipbuilding industry
Lecture 3 - Structural Requirement
Lecture 4 - Basic Structural Components
Lecture 5 - Structural Subassemblies
Lecture 6 - Bulkheads
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Lecture 9 - Wing Tanks & Duct Keels
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Lecture 11 - General Cargo Carrier
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Lecture 34 - Electrogas Welding
Lecture 35 - Friction Stir Welding
Lecture 36 - FSW Metallurgy
Lecture 37 - Welding Defects & NDT
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Lecture 39 - Distortion Mechanism & Types of Distortion
Lecture 40 - Distortion Control & Mitigation
Lecture 41 - Welding Sequence
NPTEL Video Course - Ocean Engineering - Marine Hydrodynamics

Subject Co-ordinator - Dr. T. Sahoo

Co-ordinating Institute - IIT - Kharagpur

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

Lecture 1 - Introduction to Marine Hydrodynamics
Lecture 2 - Law of Conservation of Mass - Continuity of Equation
Lecture 3 - Streamlines and Flow Direction
Lecture 4 - Worked Examples on Various Types of Flow
Lecture 5 - Equation of Motion (Law of Conservation of Momentum)
Lecture 6 - Applications of Equations of Motion
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Lecture 20 - Irrotational Flow - A Bird's eyview
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Lecture 22 - Basic Equation and Conditions of Water Waves
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Lecture 28 - Worked Examples on Wave Motion
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Lecture 39 - Solution methods for Boundary Layer Equations
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NPTEL Video Course - Ocean Engineering - Seakeeping and Manoeuvring

Subject Co-ordinator - Prof. Debabrata Sen
Co-ordinating Institute - IIT - Kharagpur
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

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Lecture 4 - Single Degree of Freedom Motions in Regular Waves
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NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Ocean Engineering - Applied Thermodynamics for Marine Systems

Subject Co-ordinator - Prof. P.K. Das

Co-ordinating Institute - IIT - Kharagpur

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

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Lecture 5 - Second Law and Carnot Principle
Lecture 6 - Property of Pure Substance, Steam Table
Lecture 7 - Ideal Gas Laws, Different Processes
Lecture 8 - Introduction to Vapour Power Cycle
Lecture 9 - Vapour Power Cycle
Lecture 10 - Steam Power Cycle, Steam Nozzle
Lecture 11 - Basic Concept of Turbine, Velocity Diagram
Lecture 12 - Steam Turbine-Impulse
Lecture 13 - Reaction Turbine Compounding
Lecture 14 - Comparison of Different Staging Arrangement
Lecture 15 - Basics Laws of Fluid Mechanics
Lecture 16 - Pipe Friction, Major Loss, Minor Loss
Lecture 17 - Pipeline & Pipe Network
Lecture 18 - Refrigeration Vapour Compression Cycle
Lecture 19 - Psychometrics
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Lecture 22 - Psychometric Processes (Continued...), Air Conditioning
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NPTEL Video Course - Ocean Engineering - Performance of Marine Vehicles at Sea

Subject Co-ordinator - Prof. Debabrata Sen, Prof. S.C. Misra

Co-ordinating Institute - IIT - Kharagpur

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NPTEL Video Course - Ocean Engineering - Strength and Vibration of Marine Structures

Subject Co-ordinator - Prof. S.K. Satsangi, Prof. A.H. Sheikh

Co-ordinating Institute - IIT - Kharagpur

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

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NPTEL Video Course - Ocean Engineering - NOC: Water Economics and Governance

Subject Co-ordinator - Prof. Manoj Kumar Tiwari

Co-ordinating Institute - IIT - Kharagpur

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NPTEL Video Course - Ocean Engineering - Design of Offshore Structures

Subject Co-ordinator - Dr. S. Nallayarasu
Co-ordinating Institute - IIT - Madras
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

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NPTEL Video Course - Ocean Engineering - Foundation for Offshore Structures

Subject Co-ordinator - Dr. S. Nallayarasu

Co-ordinating Institute - IIT - Madras

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NPTEL Video Course - Ocean Engineering - Health, Safety and Environmental Management in Petroleum and Offshore Engineering

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran
Co-ordinating Institute - IIT - Madras
Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

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Subject Co-ordinator - Prof. R. Sundaravadivelu
Co-ordinating Institute - IIT - Madras

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NPTEL Video Course - Ocean Engineering - Ship Resistance and Propulsion

Subject Co-ordinator - Dr. P. Krishnankutty, Prof. V. Anantha Subramanian

Co-ordinating Institute - IIT - Madras

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NPTEL Video Course - Ocean Engineering - Ocean Structures and Materials

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

Co-ordinating Institute - IIT - Madras

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NPTEL Video Course - Ocean Engineering - Dynamics of Ocean Structures

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran
Co-ordinating Institute - IIT - Madras
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NPTEL Video Course - Ocean Engineering - Advanced Marine Structures

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

Co-ordinating Institute - IIT - Madras

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Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

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NPTEL Video Course - Ocean Engineering - NOC: Risk and Reliability of offshore structures

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NPTEL Video Course - Ocean Engineering - NOC:HSE for offshore and petroleum engineers-Practices

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Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

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NPTEL Video Course - Ocean Engineering - NOC: Structural Health Monitoring

Subject Co-ordinator - Dr. Srinivasan Chandrasekaran

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