

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
- Lecture 7 - Decks & Shells
- Lecture 8 - Structural Assemblies Double Bottom Construction
- Lecture 9 - Wing Tanks & Duct Keels
- Lecture 10 - Fore & Aftend Construction
- Lecture 11 - General Cargo Carrier
- Lecture 12 - Bulk Carrier
- Lecture 13 - Structural Details
- Lecture 14 - Container Ship
- Lecture 15 - RO-RO Ship
- Lecture 16 - Oil Tanker
- Lecture 17 - Structural Alignment & Continuity
- Lecture 18 - Steel Material Preparation
- Lecture 19 - Shot Blasting
- Lecture 20 - Acid Pickling
- Lecture 21 - Plate Cutting
- Lecture 22 - Plate & Section Forming - I
- Lecture 23 - Plate & Section Forming - II
- Lecture 24 - Line Heating
- Lecture 25 - Fusion Welding & Power Source
- Lecture 26 - Welding Parameters & their Effects
- Lecture 27 - Welding Methods
- Lecture 28 - Shielded Metal Arc Welding
- Lecture 29 - Gas Metal Arc Welding - I

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- Lecture 30 - Gas Metal Arc Welding - II
- Lecture 31 - Gas Tungsten Arc Welding
- Lecture 32 - Submerged Arc Welding
- Lecture 33 - Electroslag Welding
- Lecture 34 - Electrogas Welding
- Lecture 35 - Friction Stir Welding
- Lecture 36 - FSW Metallurgy
- Lecture 37 - Welding Defects & NDT
- Lecture 38 - Welding Distortions
- Lecture 39 - Distortion Mechanism & Types of Distortion
- Lecture 40 - Distortion Control & Mitigation
- Lecture 41 - Welding Sequence