

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

NPTEL Video Course - Mechanical Engineering - NOC:Manufacturing of Composites

Subject Co-ordinator - Prof. J. Ramkumar

Co-ordinating Institute - IIT - Kanpur

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

- Lecture 1 - Introduction to Composites
- Lecture 2 - Matrices
- Lecture 3 - Fiber reinforcements
- Lecture 4 - Fiber reinforcements (Continued...)
- Lecture 5 - Composites properties
- Lecture 6 - Composites testing
- Lecture 7 - Selection of material
- Lecture 8 - Selection of material (Continued...)
- Lecture 9 - Design for Manufacturing
- Lecture 10 - Design for Manufacturing (Continued...)
- Lecture 11 - Composite Manufacturing Processes
- Lecture 12 - Filament winding Processes
- Lecture 13 - Resin transfer moulding
- Lecture 14 - Pultrusion
- Lecture 15 - Compression Moulding Process
- Lecture 16 - Vacuum Impregnation Methods
- Lecture 17 - Stacking of Composites
- Lecture 18 - Thermoplastic Composites Manufacturing Processes - Part 1
- Lecture 19 - Thermoplastic Composites Manufacturing Processes - Part 2 (Continued...)
- Lecture 20 - Non-destructive testing methods for composite materials
- Lecture 21 - Metal Matrix Composites
- Lecture 22 - Metal Matrix Composites applications (Continued...)
- Lecture 23 - Processing of Metal Matrix Composites - Part 1
- Lecture 24 - Processing of Metal Matrix Composites - Part 2
- Lecture 25 - Ceramic Matrix Composites
- Lecture 26 - Fabrication of Ceramic Matrix Composites (CMCs)
- Lecture 27 - Carbon - Carbon Composites
- Lecture 28 - Polymer Matrix and Nano Composites
- Lecture 29 - Machining of Composites

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Lecture 30 - Repair of Composites

Lecture 31 - Manufacturing Processes