

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

NPTEL Video Course - Mechanical Engineering - Processing of non metals

Subject Co-ordinator - Dr. Inderdeep Singh

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Engineering Materials and Processing Techniques

Lecture 2 - Properties of Non-Metals

Lecture 3 - Glass Structure and Properties

Lecture 4 - Glass Processing - I

Lecture 5 - Glass Processing - II

Lecture 6 - Ceramics - I

Lecture 7 - Ceramics - II

Lecture 8 - Ceramic Powder Preparation

Lecture 9 - Ceramic Powder Preparation â I

Lecture 10 - Processing of Ceramic Parts ? Pressing

Lecture 11 - Processing of Ceramic Parts â II

Lecture 12 - Ceramics

Lecture 13 - Thermoplastics and Thermosets

Lecture 14 - Processing of Plastics

Lecture 15 - Extrusion of Plastics

Lecture 16 - Transfer Molding and Compression Molding

Lecture 17 - Injection Molding

Lecture 18 - Thermoforming

Lecture 19 - Rotational Molding and Blow Molding

Lecture 20 - Composite Materials

Lecture 21 - Composite Materials

Lecture 22 - Processing of Polymer Matrix Composites

Lecture 23 - Hand Lay-up and Spray Lay-up

Lecture 24 - Pultrusion

Lecture 25 - Compression Molding

Lecture 26 - Filament Winding

Lecture 27 - Injection Molding-1

Lecture 28 - Pre-pregging and Sheet Molding Compounds

Lecture 29 - Resin Transfer Molding and Autoclave Molding

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- Lecture 30 - Ceramic Matrix Composites
- Lecture 31 - Ceramic Matrix Composites
- Lecture 32 - Powder Processing
- Lecture 33 - Chemical Vapour Infiltration
- Lecture 34 - Ceramic Matrix Composites
- Lecture 35 - Ceramic Matrix Composites
- Lecture 36 - Drilling of Polymer Matrix Composites
- Lecture 37 - Hole Making Techniques for Polymer Matrix Composites
- Lecture 38 - Joining of Polymer Matrix Composites
- Lecture 39 - Microwave Joining of Polymer Matrix Composites
- Lecture 40 - Research Tools for Secondary Processing