

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

NPTEL Video Course - Textile Engineering - Theory of Yarn Structures

Subject Co-ordinator - Prof. Bohuslav Neckar

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Fibers and Yarns

Lecture 2 - Fibers and Yarns

Lecture 3 - Compression of Fibrous Assemblies

Lecture 4 - Compression of Fibrous Assemblies (Continued...)

Lecture 5 - Pores Among Fibers

Lecture 6 - Pores Among Fibers (Continued...)

Lecture 7 - Orientation of Fibers

Lecture 8 - Orientation of Fibers (Continued...)

Lecture 9 - Mechanics of Parallel Fiber Bundles

Lecture 10 - Mechanics of Parallel Fiber Bundles (Continued...)

Lecture 11 - Modelling of Internal Yarn Geometry

Lecture 12 - Modelling of Internal Yarn Geometry

Lecture 13 - Relations Among Yarn Count T, Twist Z, Packing Density, And Diameter D

Lecture 14 - Relations Among Yarn Count T, Twist Z, Packing Density, And Diameter D (Continued...)

Lecture 15 - Relations Among Yarn Count T, Twist Z, Packing Density, And Diameter D (Continued...)

Lecture 16 - Relations Among Yarn Count T, Twist Z, Packing Density, And Diameter D (Continued...)

Lecture 17 - Bundle Theory of Yarn Unevenness

Lecture 18 - Bundle Theory of Yarn Unevenness (Continued...)

Lecture 19 - Yarn Strength as a Stochastic Process

Lecture 20 - Yarn Strength as a Stochastic Process (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Science of Clothing Comfort

Subject Co-ordinator - Dr. Apurba Das

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Science of Clothing Comfort-Outline
- Lecture 2 - Understanding Clothing and Clothing Comfort
- Lecture 3 - Understanding Clothing and Clothing Comfort (Continued...)
- Lecture 4 - Understanding Clothing and Clothing Comfort (Continued...)
- Lecture 5 - Psychology and Comfort
- Lecture 6 - Psychology and Comfort (Continued...)
- Lecture 7 - Psychology and Comfort (Continued...)
- Lecture 8 - Psychology and Comfort (Continued...)
- Lecture 9 - Neurophysiological Processes in Clothing Comfort
- Lecture 10 - Neurophysiological Processes in Clothing Comfort (Continued...)
- Lecture 11 - Neurophysiological Processes in Clothing Comfort (Continued...)
- Lecture 12 - Neurophysiological Processes in Clothing Comfort (Continued...)
- Lecture 13 - Neurophysiological Processes in Clothing Comfort (Continued...)
- Lecture 14 - Neurophysiological Processes in Clothing Comfort (Continued...)
- Lecture 15 - Tactile Aspects of Clothing Comfort
- Lecture 16 - Tactile Aspects of Clothing Comfort (Continued...)
- Lecture 17 - Tactile Aspects of Clothing Comfort (Continued...)
- Lecture 18 - Tactile Aspects of Clothing Comfort (Continued...)
- Lecture 19 - Understanding Clothing and Clothing Comfort (Continued...)
- Lecture 20 - Tactile Aspects of Clothing Comfort (Continued...)
- Lecture 21 - Tactile Aspects of Clothing Comfort (Continued...)
- Lecture 22 - Clothing Comfort Related to Thermal Transmission
- Lecture 23 - Clothing Comfort Related to Thermal Transmission (Continued...)
- Lecture 24 - Clothing Comfort Related to Thermal Transmission (Continued...)
- Lecture 25 - Clothing Comfort Related to Thermal Transmission (Continued...)
- Lecture 26 - Clothing Comfort Related to Thermal Transmission (Continued...)
- Lecture 27 - Clothing Comfort Related to Thermal Transmission (Continued...)
- Lecture 28 - Clothing Comfort Related to Thermal Transmission (Continued...)
- Lecture 29 - Moisture Transmission and Clothing Comfort

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- Lecture 30 - Moisture Transmission and Clothing Comfort (Continued...)
- Lecture 31 - Moisture Transmission and Clothing Comfort (Continued...)
- Lecture 32 - Moisture Transmission and Clothing Comfort (Continued...)
- Lecture 33 - Moisture Transmission and Clothing Comfort (Continued...)
- Lecture 34 - Moisture Transmission and Clothing Comfort (Continued...)
- Lecture 35 - Moisture Transmission and Clothing Comfort (Continued...)
- Lecture 36 - Combined Heat and Mass Transmission and Clothing Comfort
- Lecture 37 - Combined Heat and Mass Transmission and Clothing Comfort (Continued...)
- Lecture 38 - Thermo-Physiological Comfort of Functional Clothing
- Lecture 39 - Garment Fit and Comfort
- Lecture 40 - Garment Fit and Comfort (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Yarn Manufacture-I: Principle of Carding and Drawing

Subject Co-ordinator - Prof. Ravi Chattopadhyay

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction
- Lecture 2 - Card Feed Zone
- Lecture 3 - Carding Zone
- Lecture 4 - Analysis of flat action
- Lecture 5 - Sliver Formation
- Lecture 6 - Package Formation
- Lecture 7 - Card Clothing
- Lecture 8 - Card Setting, Draft, Production
- Lecture 9 - Fibre Configuration and Neps in Card sliver
- Lecture 10 - Carding Process
- Lecture 11 - Numerical Problems and Solution
- Lecture 12 - Introduction and Drafting principle
- Lecture 13 - Design Features and operating principle of drawframe
- Lecture 14 - Drafting Rolles, Web Condensation and Packaging
- Lecture 15 - Drafting Roller Arranegement
- Lecture 16 - Drafting Theory, Wave Fromation and Control
- Lecture 17 - Drafting Force and Roller Slip
- Lecture 18 - Significance of Process Parameters
- Lecture 19 - Draft and production Calculation
- Lecture 20 - Blending on Drawframe
- Lecture 21 - Process Monitoring and Control
- Lecture 22 - Drawframe Autoleveller
- Lecture 23 - Card Autoleveller
- Lecture 24 - Numericals on Drawing

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

NPTEL Video Course - Textile Engineering - NOC:Evaluations of Textile Materials

Subject Co-ordinator - Dr. Apurba Das

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Evaluation of Textile Materials - Outline
- Lecture 2 - Evaluation of Textile Materials - Outline (Continued...)
- Lecture 3 - Sampling Methods and Sample Size
- Lecture 4 - Sampling Methods and Sample Size (Continued...)
- Lecture 5 - Sampling Methods and Sample Size (Continued...)
- Lecture 6 - Sampling Methods and Sample Size
- Lecture 7 - Sampling Methods and Sample Size
- Lecture 8 - Sampling Methods and Sample Size
- Lecture 9 - Evaluation of Fibre Length
- Lecture 10 - Evaluation of Fibre Length (Continued...)
- Lecture 11 - Evaluation of Fibre Length (Continued...)
- Lecture 12 - Evaluation of Fibre Fineness
- Lecture 13 - Evaluation of Fibre Fineness - 1
- Lecture 14 - Evaluation of Cotton Fibre Maturity
- Lecture 15 - Evaluation of Cotton Fibre Properties
- Lecture 16 - Evaluation of Linear Density of Textile Materials
- Lecture 17 - Evaluation of Linear Density of Textile Materials (Continued...)
- Lecture 18 - Evaluation of Tensile Properties of Textile Materials
- Lecture 19 - Evaluation of Tensile Properties of Textile Materials (Continued...)
- Lecture 20 - Evaluation of Tensile Properties of Textile Materials-1 (Continued...)
- Lecture 21 - Evaluation of Tensile Properties of Textile Materials-2 (Continued...)
- Lecture 22 - Evaluation of Tensile Properties of Textile Materials-3 (Continued...)
- Lecture 23 - Evaluation of Tensile Properties of Textile Materials-4 (Continued...)
- Lecture 24 - Evaluation of Tensile Properties of Textile Materials-5 (Continued...)
- Lecture 25 - Evaluation of Yarn and Fabric Hairiness
- Lecture 26 - Evaluation of Yarn and Fabric Hairiness (Continued...)
- Lecture 27 - Evaluation of Yarn Twist
- Lecture 28 - Evaluation of Yarn Twist (Continued...)
- Lecture 29 - Evaluation of Moisture in Textiles

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- Lecture 30 - Evaluation of Moisture in Textiles (Continued...)
- Lecture 31 - Evaluation of Yarn Evenness
- Lecture 32 - Evaluation of Yarn Evenness-1 (Continued...)
- Lecture 33 - Evaluation of Yarn Evenness-2 (Continued...)
- Lecture 34 - Evaluation of Yarn Evenness-3 (Continued...)
- Lecture 35 - Evaluation of Yarn Evenness-3 (Continued...)
- Lecture 36 - Evaluation of Yarn Evenness-4 (Continued...)
- Lecture 37 - Evaluation of Bursting and Tear Strength of Fabrics
- Lecture 38 - Evaluation of Pilling and Abrasion Properties of Fabrics
- Lecture 39 - Evaluation of Low Stress Mechanical Properties of Textile Materials
- Lecture 40 - Evaluation of Low Stress Mechanical Properties of Textile Materials (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Testing of Functional and Technical Textiles

Subject Co-ordinator - Dr. Apurba Das

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Testing of Low Stress mechanical Properties of Textile Fabrics
- Lecture 2 - Testing of Low Stress mechanical Properties of Textile Fabrics (Continued...)
- Lecture 3 - Testing of Low Stress mechanical Properties of Textile Fabrics (Continued...)
- Lecture 4 - Testing of Transmission Characteristics of Textile Fabrics
- Lecture 5 - Testing of Transmission Characteristics of Textile Fabrics (Continued...)
- Lecture 6 - Testing of Transmission Characteristics of Textile Fabrics (Continued...)
- Lecture 7 - Testing of Transmission Characteristics of Textile Fabrics (Continued...)
- Lecture 8 - Testing of Transmission Characteristics of Textile Fabrics (Continued...)
- Lecture 9 - Testing of Transmission Characteristics of Textile Fabrics (Continued...)
- Lecture 10 - Testing of Fibre Reinforced Composite Materials
- Lecture 11 - Testing of Fibre Reinforced Composite Materials (Continued...)
- Lecture 12 - Testing of Fibre Reinforced Composite Materials (Continued...)
- Lecture 13 - Testing of Fibre Reinforced Composite Materials (Continued...)
- Lecture 14 - Testing of Fibre Reinforced Composite Materials (Continued...)
- Lecture 15 - Testing of Fibre Fabrics
- Lecture 16 - Testing of Fibre Fabrics (Continued...)
- Lecture 17 - Testing of Fibre Fabrics (Continued...)
- Lecture 18 - Testing of Geotextiles
- Lecture 19 - Testing of Geotextiles (Continued...)
- Lecture 20 - Testing of Geotextiles (Continued...)
- Lecture 21 - Testing of Ballistics Protective Clothing
- Lecture 22 - Testing of UV Radiation Protective Textiles
- Lecture 23 - Testing of Compression Bandages
- Lecture 24 - Testing of Electromagnetic Shielding Textiles

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

NPTEL Video Course - Textile Engineering - NOC:Theory of Yarn Structure

Subject Co-ordinator - Dr. Dipayan Das

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - The Building Block of Yarns
- Lecture 2 - The Building Block of Yarns (Continued...)
- Lecture 3 - Basic Characteristics of Yarns
- Lecture 4 - Basic Characteristics of Yarns (Continued...)
- Lecture 5 - Basic Characteristics of Yarns (Continued...)
- Lecture 6 - Relations Among Yarn Count, Twist, and Diameter
- Lecture 7 - Relations Among Yarn Count, Twist, and Diameter (Continued...)
- Lecture 8 - Helical Model of Fibers in Yarns
- Lecture 9 - Helical Model of Fibers in Yarns (Continued...)
- Lecture 10 - Helical Model of Fibers in Yarns (Continued...)
- Lecture 11 - Helical Model of Fibers in Yarns (Continued...)
- Lecture 12 - Mass Irregularity of Yarns
- Lecture 13 - Mass Irregularity of Yarns (Continued...)
- Lecture 14 - Mass Irregularity of Yarns (Continued...)
- Lecture 15 - Mass Irregularity of Yarns (Continued...)
- Lecture 16 - Radial Migration of Fibres in Yarns
- Lecture 17 - Radial Migration of Fibres in Yarns (Continued...)
- Lecture 18 - Radial Migration of Fibres in Yarns (Continued...)
- Lecture 19 - Yarn Shrinkage due to Washing
- Lecture 20 - Tensile Mechanics of Yarns
- Lecture 21 - Tensile Mechanics of Yarns (Continued...)
- Lecture 22 - Tensile Mechanics of Yarns (Continued...)
- Lecture 23 - Tensile Mechanics of Yarns (Continued...)
- Lecture 24 - Tensile Mechanics of Yarns (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Advanced Textile Printing Technology

Subject Co-ordinator - Prof. Kushal Sen

Co-ordinating Institute - IIT - Delhi

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

Lecture 1 - Conventional Printing

Lecture 2 - Colourants

Lecture 3 - Dyes and pigments

Lecture 4 - Thickeners

Lecture 5 - Measurement of viscosity

Lecture 6 - Discharge and resist printing

Lecture 7 - Transfer Printing

Lecture 8 - Sublimation Transfer Printing

Lecture 9 - Sublimation Transfer Printing

Lecture 10 - Free path length and mechanism of transfer

Lecture 11 - Transfer Printing Machines and Other Transfer Methods

Lecture 12 - Introduction to Digital Textile Printing

Lecture 13 - Revision and Doubt Clarification Session - 1

Lecture 14 - Digital Textile Printing

Lecture 15 - Inkjet Technologies

Lecture 16 - Revision and Doubt Clarification Session - 2

Lecture 17 - Inkjet Technologies

Lecture 18 - Inkjet Printing

Lecture 19 - Printing inks

Lecture 20 - Water-based inks

Lecture 21 - Water-based inks (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Textured Yarn Technology

Subject Co-ordinator - Prof. Kushal Sen

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to texturing
- Lecture 2 - General principles involved in the manufacture of textured yarns
- Lecture 3 - General principles involved in the manufacture of textured yarns (Continued...)
- Lecture 4 - Bulked yarns
- Lecture 5 - Mechanisms of setting and texturing
- Lecture 6 - Thermo-mechanical texturing
- Lecture 7 - Characterization and optimization
- Lecture 8 - Influence of material and process parameters
- Lecture 9 - Influence of process parameters
- Lecture 10 - Influence of process parameters (Continued...)
- Lecture 11 - Revision and clarification of doubts - Session 1
- Lecture 12 - Influence of process parameters (Continued...)
- Lecture 13 - Draw Texturing
- Lecture 14 - Simultaneous draw texturing with POY
- Lecture 15 - Draw Texturing (Continued...)
- Lecture 16 - Draw Texturing Machines and Process Parameters
- Lecture 17 - Draw Texturing
- Lecture 18 - Draw Texturing
- Lecture 19 - Friction Draw Texturing
- Lecture 20 - Friction Draw Texturing (Continued...)
- Lecture 21 - Air-Jet Texturing
- Lecture 22 - Air-Jet Texturing (Continued...)
- Lecture 23 - Air-Jet Texturing (Continued...)
- Lecture 24 - Air-Jet Texturing
- Lecture 25 - Air-Jet Texturing
- Lecture 26 - Air-Texturing Jets
- Lecture 27 - Interlacement
- Lecture 28 - Bulked continuous filament yarns
- Lecture 29 - Hi-bulk yarns

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- Lecture 30 - Revision and Clarification of Doubts Session 2
- Lecture 31 - Hi-bulk yarns (Continued...)
- Lecture 32 - Texturing of spun yarns
- Lecture 33 - Texturing of spun yarns (Continued...)
- Lecture 34 - Solvent texturing

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

NPTEL Video Course - Textile Engineering - Natural Dyes

Subject Co-ordinator - Dr. Padma S Vankar

Co-ordinating Institute - IIT - Kanpur

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

Lecture 1 - Natural Dyes
Lecture 2 - Natural Dyes
Lecture 3 - Natural Dyes
Lecture 4 - Natural Dyes
Lecture 5 - Natural Dyes
Lecture 6 - Natural Dyes
Lecture 7 - Natural Dyes
Lecture 8 - Natural Dyes
Lecture 9 - Natural Dyes
Lecture 10 - Natural Dyes
Lecture 11 - Natural Dyes
Lecture 12 - Natural Dyes
Lecture 13 - Natural Dyes
Lecture 14 - Natural Dyes
Lecture 15 - Natural Dyes
Lecture 16 - Natural Dyes
Lecture 17 - Natural Dyes
Lecture 18 - Natural Dyes
Lecture 19 - Natural Dyes
Lecture 20 - Natural Dyes
Lecture 21 - Natural Dyes
Lecture 22 - Natural Dyes
Lecture 23 - Natural Dyes
Lecture 24 - Natural Dyes
Lecture 25 - Natural Dyes
Lecture 26 - Natural Dyes
Lecture 27 - Natural Dyes
Lecture 28 - Natural Dyes
Lecture 29 - Natural Dyes

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Lecture 30 - Natural Dyes
Lecture 31 - Natural Dyes
Lecture 32 - Natural Dyes
Lecture 33 - Natural Dyes
Lecture 34 - Natural Dyes
Lecture 35 - Natural Dyes
Lecture 36 - Natural Dyes
Lecture 37 - Natural Dyes
Lecture 38 - Natural Dyes
Lecture 39 - Natural Dyes
Lecture 40 - Natural Dyes