

## 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...)

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

# 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

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- 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 - Impurities and Contaminants in Cotton
- Lecture 2 - Opening Principle and Opening Devices
- Lecture 3 - Cleaning Principle
- Lecture 4 - Machines and their Layout
- Lecture 5 - Bale Opening Machines
- Lecture 6 - Machines in Blow Room - Part II
- Lecture 7 - Opening Cleaning Machines - Part II
- Lecture 8 - Mixing/Blending
- Lecture 9 - Transportation of Tuft
- Lecture 10 - Lap formation and Material Flow Regulation
- Lecture 11 - Process Performance
- Lecture 12 - Introduction
- Lecture 13 - Card Feed Zone
- Lecture 14 - Carding Zone
- Lecture 15 - Analysis of flat action
- Lecture 16 - Sliver Formation
- Lecture 17 - Package Formation
- Lecture 18 - Card Clothing
- Lecture 19 - Card Setting, Draft, Production
- Lecture 20 - Fibre Configuration and Neps in Card sliver
- Lecture 21 - Carding Process
- Lecture 22 - Numerical Problems and Solution
- Lecture 23 - Introduction and Drafting principle
- Lecture 24 - Design Features and operating principle of drawframe
- Lecture 25 - Drafting Rolles, Web Condensation and Packaging
- Lecture 26 - Drafting Roller Arranegement
- Lecture 27 - Drafting Theory, Wave Fromation and Control
- Lecture 28 - Drafting Force and Roller Slip
- Lecture 29 - Significance of Process Parameters

---

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

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

---

- Lecture 30 - Draft and production Calculation
- Lecture 31 - Blending on Drawframe
- Lecture 32 - Process Monitoring and Control
- Lecture 33 - Drawframe Autoleveller
- Lecture 34 - Card Autoleveller
- Lecture 35 - Numericals on Drawing

# 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

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- 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

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)



## 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...)

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

## 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...)

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

## 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

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- 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 - NOC:Textile Finishing

Subject Co-ordinator - Prof. Kushal Sen

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to Finishing
- Lecture 2 - Wrinkle Resistant Finishing
- Lecture 3 - Wrinkle Resistant Finishing (Continued...)
- Lecture 4 - Wrinkle Resistant Finishing
- Lecture 5 - Catalysis and Catalysts
- Lecture 6 - Other Crosslinking agents
- Lecture 7 - Non-nitrogenous Agents
- Lecture 8 - Control of Formaldehyde Release
- Lecture 9 - Stiff and Soft Finishing
- Lecture 10 - Soft Finishing (Continued...)
- Lecture 11 - Soft Finishing (Continued...)
- Lecture 12 - Emulsion Softeners
- Lecture 13 - Water Proofing and Water Repellency
- Lecture 14 - Water Repellency (Continued...)
- Lecture 15 - Water Repellency (Continued...)
- Lecture 16 - Waterproof Breathable Textiles
- Lecture 17 - Soil Repellency and Soil Release
- Lecture 18 - Soil Release Finishing
- Lecture 19 - Fire Retardant Finishing
- Lecture 20 - Chemistry of Flame Retardants
- Lecture 21 - More Flame retardants and evaluation of fire retardancy
- Lecture 22 - Antimicrobial Finishing
- Lecture 23 - Finishing of Wool
- Lecture 24 - Shrink Resistant Wool
- Lecture 25 - Wool Setting
- Lecture 26 - Mothproofing of Wool
- Lecture 27 - Biopolishing
- Lecture 28 - Finishing of synthetics
- Lecture 29 - Finishing of synthetics

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- Lecture 30 - Low Liquor Application
- Lecture 31 - Waste heat recovery
- Lecture 32 - Principles of some Finishing machines

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

NPTEL Video Course - Textile Engineering - NOC:Principles of Combing, Roving preparation and Ring spinning

Subject Co-ordinator - Prof. Ravi Chattopadhyay

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Pre-combing operation - Part 1
- Lecture 2 - Pre-combing operation - Part 2
- Lecture 3 - Introduction to Comber - Part 1
- Lecture 4 - Introduction to Comber - Part 2
- Lecture 5 - Sequence of Operation
- Lecture 6 - Combing Mechanism
- Lecture 7 - Timing Diagram
- Lecture 8 - Sliver Formation
- Lecture 9 - Theoretical Aspects in Combing - Part 1
- Lecture 10 - Theoretical Aspects in Combing - Part 2
- Lecture 11 - Parameters Influencing Combing Performance
- Lecture 12 - Analysis of Drive
- Lecture 13 - Calculation of Process Performance Parameters
- Lecture 14 - Introduction, Working Principle and Creel
- Lecture 15 - DxDrafting Unit - Part 1
- Lecture 16 - DxDrafting Unit - Part 2
- Lecture 17 - Flyer Twisting
- Lecture 18 - Package Formation
- Lecture 19 - Bobbin Speed Regulation
- Lecture 20 - Building Motion and Drive Analysis
- Lecture 21 - Calculation for Change Gears and Production
- Lecture 22 - Introduction and Working Principle
- Lecture 23 - Creel and Drafting Unit
- Lecture 24 - Twisting Process and Twisting Elements
- Lecture 25 - Bobbin Building
- Lecture 26 - Spinning Geometry
- Lecture 27 - Analysis of Forces on Traveller
- Lecture 28 - Analysis of Forces on Ballon
- Lecture 29 - Analysis of Drive, Production Calculation

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

Lecture 30 - End Breaks

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)



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

NPTEL Video Course - Textile Engineering - NOC:Science and Technology of Weft and Warp Knitting

Subject Co-ordinator - Prof. Bipin Kumar

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to Kintting
- Lecture 2 - Knitting Glossary
- Lecture 3 - Loop Formation in Weft Knitting
- Lecture 4 - Lab Demo 1
- Lecture 5 - Automation in Loop Formation
- Lecture 6 - Flat Bed Machine Needle/Cam Interaction
- Lecture 7 - Circular Knitting
- Lecture 8 - Single Bed Weft Knitting-Flat and Circular M/C
- Lecture 9 - Lab Demo 2
- Lecture 10 - Lab Demo 3
- Lecture 11 - Single Bed Weft Knitting Fabric Curling
- Lecture 12 - Weft Knitting Double Flat Beds
- Lecture 13 - Weft Knitting Double Circular Beds
- Lecture 14 - Weft Knitting V-Bed Machine
- Lecture 15 - Analysis of a Double Jersey Fabric
- Lecture 16 - Single and Double Jersey Construction
- Lecture 17 - Weft Knit Stiches - Loop, Tuck and Float
- Lecture 18 - Lab Demo 6 (Part 1) Knitting Notations
- Lecture 19 - Lab Demo 6 (Part 2) Knitting Notations
- Lecture 20 - Fabric Analysis - Influence of Loop Length
- Lecture 21 - Fabric Design - Float and Tuck Formation
- Lecture 22 - Fabric Analysis - Influence of Float and Tuck Stitches
- Lecture 23 - Fabric Analysis - Shrinkage (Relaxation)
- Lecture 24 - Fabric Analysis - Extensibility and Recovery
- Lecture 25 - Knitting Calculation - Yarn Selection
- Lecture 26 - Knitting Calculation - Production (Circular)
- Lecture 27 - Knitting Calculation - Production (Flat)
- Lecture 28 - Knitting Calculation - Fabric Calculations
- Lecture 29 - Knitting Calculation - Geometrical Modeling

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- Lecture 30 - Knitting Calculation - Fabric Spirality in Single Jersey (Tubular)
- Lecture 31 - Advancement in Knitting Technology
- Lecture 32 - Knitting Designs Possibilities
- Lecture 33 - Knitting Designs Possibilities - 1
- Lecture 34 - Design Software
- Lecture 35 - Weft Knitting- Revision
- Lecture 36 - Introduction to Warp Knitting
- Lecture 37 - Warp Knitting Technology- Loop Formation
- Lecture 38 - Swinging and Shogging Motions (Overlap and Underlap)
- Lecture 39 - Warp Knit - Structural Identification
- Lecture 40 - Warp Knit Fabric Notation - Lapping Diagram and Lapping Plan
- Lecture 41 - Warp Knit Structure - Design Principles
- Lecture 42 - Single Bar Warp Knit Constructions
- Lecture 43 - Double Bar Warp Knit Constructions
- Lecture 44 - Lapping Plan Execution - Pattern Disc and Pattern Drum
- Lecture 45 - Chain Links Arrangement - Single and Double Bar Constructions
- Lecture 46 - Warp Knits
- Lecture 47 - Warp Knits
- Lecture 48 - Weft and Warp Knitting - Summary
- Lecture 49 - Technical Applications of Knitting
- Lecture 50 - Technical Applications of Knitting (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Technical Textiles

Subject Co-ordinator - Dr. Apurba Das

Co-ordinating Institute - IIT - Delhi

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

- Lecture 1 - Introduction to Technical Textiles
- Lecture 2 - Introduction to Technical Textiles (Continued...)
- Lecture 3 - Textile Reinforced Composites
- Lecture 4 - Textile Reinforced Composites (Continued...)
- Lecture 5 - Textile Reinforced Composites (Continued...)
- Lecture 6 - Textile Reinforced Composites (Continued...)
- Lecture 7 - Textile Reinforced Composites (Continued...)
- Lecture 8 - Textile Reinforced Composites (Continued...)
- Lecture 9 - Textile Reinforced Composites (Continued...)
- Lecture 10 - Textile Reinforced Composites (Continued...)
- Lecture 11 - Textile Reinforced Composites (Continued...)
- Lecture 12 - Textile Reinforced Composites (Continued...)
- Lecture 13 - Filter Fabrics
- Lecture 14 - Filter Fabrics (Continued...)
- Lecture 15 - Filter Fabrics (Continued...)
- Lecture 16 - Geotextiles
- Lecture 17 - Geotextiles (Continued...)
- Lecture 18 - Geotextiles (Continued...)
- Lecture 19 - Geotextiles (Continued...)
- Lecture 20 - Extreme Cold Protective Clothing
- Lecture 21 - Extreme Cold Protective Clothing (Continued...)
- Lecture 22 - Extreme Heat Protective Clothing
- Lecture 23 - Extreme Heat Protective Clothing (Continued...)
- Lecture 24 - Sports Textiles
- Lecture 25 - Sports Textiles (Continued...)
- Lecture 26 - Sports Textiles (Continued...)
- Lecture 27 - Ultraviolet Protective Textiles
- Lecture 28 - Ultraviolet Protective Textiles (Continued...)
- Lecture 29 - Ultraviolet Protective Textiles (Continued...)

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- Lecture 30 - Ballistic Protective Textiles
- Lecture 31 - Compression Bandage
- Lecture 32 - Compression Bandage (Continued...)
- Lecture 33 - Compression Bandage (Continued...)
- Lecture 34 - Automotive Textiles
- Lecture 35 - Textiles in Hygiene
- Lecture 36 - Additional Lecture on Geotextiles
- Lecture 37 - Additional Lecture on Geotextiles (Continued...)
- Lecture 38 - Additional Lecture on Composites
- Lecture 39 - Additional Lecture on Composites (Continued...)
- Lecture 40 - Additional Lecture on Composites (Continued...)

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

NPTEL Video Course - Textile Engineering - NOC:Textile Product Design and Development

Subject Co-ordinator - Prof. R Chattopadhyay

Co-ordinating Institute - IIT - Delhi

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

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

---

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

## 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

---

Get Digi-MAT (Digital Media Access Terminal) For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

[www.digimat.in](http://www.digimat.in)

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

---

- 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