

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 Knitting
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 Stitches - 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

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- 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...)