NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Textile raw materials &Yarn formation
Subject Code: ESC-FA201
Branch: FAE
Semester: 3rd
Date of Start: 17-11-2025
Date of Completion: 10-11-25
Total Load: 21 hrs 40 min.

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Definitions and important terminologies related to textiles.	50 min
2	Classification of fibres.	50 min
3	Essential and desirable properties of textile fibres.	50 min
4	Advantages and disadvantages of natural and manmade fibres.	50 min
5	Cotton: structure and properties (physical and chemical)	50 min
6	Jute, hemp : structure and properties (physical and chemical)	50 min
7	Sisal and ramie : structure and properties (physical and chemical)	50 min
	Total	5 hrs 50 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Varieties of natural silk, rearing of silk worm, properties and uses of various types of silk; silk reeling.	1 hr .40 min
2	Varieties, sorting and grading of wool, chemical and physical properties of wool, processes involved in the removal of impurities from raw wool; numbering systems of woolen and worsted yarns.	1 hr .40 min
3	manufacturing processes of important man-made fibres	50 min
4	Polyester, acrylics, polypropylene, like spandex/lycraetc and their Important physical and chemical properties and applications.	1 hr .40 min
	Total	5 hrs 50 min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Introduction to objectives of processes like ginning, mixing and blending.	50 min
2	Introduction to various preparatory processes involved in the production of yarn	50 min
3	cleaning (blow room and card), drawing (draw frame) with the objectives of each process	50 min
4	combing (comber) and rove formation (speed frame) with the objectives of each process	50 min
5	Concept of yarn quality and its importance	50 min
6	Yarn numbering systems and calculations pertaining to conversions	50 min
	Total	5 hrs

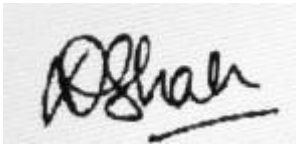
Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Introduction to different processes involved in the production of yarn viz. conventional (ring spinning)	50 min
2	Introduction to different processes involved in the production of yarn viz unconventional (rotor, air-jet and friction spinning etc)	1 hr .40 min
3	Properties and end uses of different types of yarns such as ring spun, rotor spun, friction spun and air-jet spun etc.	1 hr .40 min
4	Objectives of plying and twisting of spun and filament yarns.	50 min
	Total	5 hrs

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

1. Handbook ofTextile Fibres — J Gordon Cook HVS Murthy
Textile Fibres
2 .Manmade Fibres — RW Moncrieff
Manufactured FibreTechnology — VB Gupta &VK Kothari
Spun Yarn Technology
3 .Textile Science — Corbmann
4.Short Staple Spinning Series — W. Klein

Signature of Teacher



Approved by HOD/Dean

Prof. (Dr.) Kuldeep Tomar
Approved by IQAC Director/Dean Academics

NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-Dec 2025)

Name of Teacher: Usha Bhardwaj **Designation: Assistant Professor**
Subject Name: BEE **Branch:ME/ FAE(Semester:3rd)** **Subject Code:ESC-201**
Date of Completion: 20/11/2025
Date of Start: 21/07/2025 **Total Load: 29hrs**

Module/Unit-1: Semiconductor Devices And Applications

S.No	Name of Topic	Hours
1	Introduction to P-N junction Diode and V-I characteristics	50min
2	Half wave and Full-wave rectifiers	50min
3	capacitor filter, Zener diode and its characteristics	50min
4	Zener diode as voltage regulator.	50min
5	Regulated power supply IC based on 78XX and 79XX series	50min
6	Introduction to BJT, its input-output and transfer characteristics	50min
7	BJT as a single stage CE amplifier	50min
8	JT as a single stage CE amplifier	50min
	Total	400min=6.6hrs

Module/Unit 2- Operational Amplifier and its Applications

S.No	Name of Topic	Hours

1	Introduction to operational amplifiers	50min
2	Op-amp input modes and parameters	50min
3	Op-amp in open loop configuration, op-amp with negative feedback	50min
4	study of practical op-amp IC 741,	50min
5	inverting and non-inverting amplifier applications: summing and difference amplifier	50 min
6	unity gain buffer, comparator.	50min
7	integrator and differentiator	50min
	Total	350min=5.8hrs

Module/Unit 3-

S.No	Name of Topic	Hours
1	RC-timing circuits	50min
2	RC-timing circuits	50min
3	positive feedback, Barkhausen's criteria for oscillation	50min
4	R-C phase shift and Wein bridge oscillator	50min
	Total	200min=3.3hrs

Module/Unit 4- Digital Electronics Fundamentals

S.No	Name of Topic	Hours
1	Difference between analog and digital signals	50min

2	Boolean algebra, Basic and Universal Gates	50min
3	Symbols, Truth tables	50min
4	logic expressions, Logic simplification using K map	50min
5	Logic ICs	50min
6	half and full adder/sub tractor	50min
7	multiplexers, de-multiplexers, flip-flops	50min
8	shift registers, counters	50min
9	Block diagram of microprocessor/micro-controller and their applications	50min
	Total	450min=7.5hrs

Module/Unit 5-.Electronic Communication System

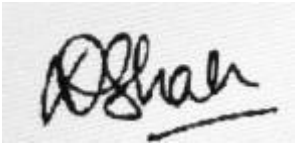
S.No	Name of Topic	Hours
1	the elements of communication system	50min
2	IEEE frequency spectrum	50min
3	transmission media: wired and wireless	50min
4	transmission media: wired and wireless	50min
5	Mobile communication system	50 min
6	cellular concept and block diagram of GSM system	50min
	Total	300min=5hrs

TEXT BOOKS/REFERENCE BOOKS:

1. Floyd ," Electronic Devices" Pearson Education.

2. R.P. Jain , "Modern Digital Electronics", Tata Mc Graw Hill.

3. Frenzel, "Communication Electronics: Principles and Applications", Tata Mc Graw Hill.



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (JULY-NOV 2025)

Name of Teacher: Ms. Anisha **Designation: Asst. Prof.**
SubjectName:BIOLOGY **Subject Code: BSC-01**
Branch: FAE **Semester:5TH**
Date of Start: 2-7-25 **Date of Completion:2-12-25**
Total Load: 28.hrs

Module/Unit-1: INTRODUCTION.

S.No	Name of Topic	Hours
1	Bring out the fundamental differences between science and engineering by drawing a comparison between eye and camera, Bird flying and aircraft.	50 Min
2	Why we need to study biology?	50 Min
3	Discuss how biological observations of 18th Century that lead to major discoveries.	50 min
4	Brownian motion and the origin of thermodynamics by referring to the original observation of Robert Brown and Julius Mayor. These examples will highlight the fundamental importance of observations in any scientific Inquiry	50 min

	Total	**3hrs 20 min**

Module/Unit 2-CLASSIFICATION ..

S.No	Name of Topic	Hours
1	**Discuss classification based on (a) cellularity- Unicellular or multicellular (b) ultrastructure- prokaryotes or eucaryotes. (c) energy and Carbon utilisation -Autotrophs heterotrophs, lithotropes (d) Ammonia excretion - aminotelic, uricoteliec, ureotelic (e) Habitata acquatic or terrestrial (e) Molecular taxonomy- three major kingdoms of life. A given organism can come under different category based on classification.**	**50 Min**
2	**. Model organisms for the study of-biology come from different groups. E.coli, S.cerevisiae, D. Melanogaster, C. elegance, A. Thaliana, M. Musculus.**	**50 Min**
	Total	**1hr40min**

Module/Unit 3 Genetics..

S.No	Name of Topic	Hours
1	**Mendel's laws, Concept of segregation and independent assortment. Concept of allele. Gene mapping. Gene interaction, Epistasis.**	**50 min**

2	**Meiosis and Mitosis be taught as a part of genetics. Emphasis to be give not to the mechanics of cell division nor the phases but how genetic material passes from parent to offspring. Concepts of recessiveness and dominance.**	**50 min**
3.	**Concept of mapping of phenotype to genes. Discuss about the single gene disorders in humans. Discuss the concept of complementation using human genetics.**	**50 min**
	Total	**2hr 30 min**

Module/Unit 4 BIO MOLECULES ..

S.No	Name of Topic	Hours
1	**Molecules of life. In this context discuss monomeric units and polymeric structures. Discuss about sugars, starch and cellulose.**	**50 Min**
2	**Amino acids and proteins. Nucleotides and DNA/RNA. Two carbon units and lipids.**	**50 Min**
	Total	**1hr 40 min**

Module/Unit 5 ENZYMES ..

S.No	Name of Topic	Hours

1	**Enzymology: How to monitor enzyme catalysed reactions. How does an enzyme catalyse reactions? Enzyme classification. Mechanism of enzyme action.**	**50 Min**
2	**Discuss at least two examples. Enzyme kinetics and kinetic parameters. Why should we know these parameters to understand biology? RNA catalysis.**	**50 Min**
	Total	**1hr 40 min**

Module/Unit 6 INFORMATION TRANSFER .

S.No	Name of Topic	Hours
1	**Molecular basis of information transfer. DNA as a genetic material. Hierarchy of DNA structure-from single stranded to double helix to nucleosomes**	**50 Min**
2	**Concept of genetic code. Universality and degeneracy of genetic code. Define gene in terms of complementation and recombination.**	**50 Min**
	Total	**1hr 40 min**

Module/Unit 7- MACROMOLECULAR ANALYSIS ..

S.No	Name of Topic	Hours

1	**Proteins- structure and function. Hierarch in protein structure. Primary secondary, tertiary and quaternary structure.**	**50 Min**
2	**Proteins as enzymes, transporters, receptors and structural elements.**	**50 Min**
	Total	**1hr 40 min**

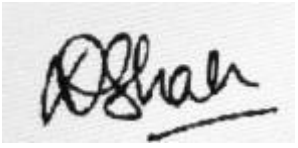
Module/Unit 8 METABOLISM..

S.No	Name of Topic	Hours
1	**Thermodynamics as applied to biological systems. Exothermic and endothermic versus endergonic and exergoinc reactions. Concept of Kegand its relation to standard free energy. Spontaneity. ATP as an energy currency.**	**50 Min**
2	**This should include the breakdown of glucose to CO2 + H2O (Glycolysis and Krebs cycle) and synthesis of glucose from CO2 and H2O (Photosynthesis). Energy yielding and energy consuming reactions. Concept of Energy Charge.**	**50 Min**
	Total	**1hr 40 min**

Module/Unit 9 MICROBIOLOGY..

S.No	Name of Topic	Hours

1	**Concept of single celled organisms. Concept of species and strains. Identification and classification of microorganisms.**	**50 Min**
2	**Microscopy. Ecological aspects of single celled organisms. Sterilization and media compositions. Growth kinetics.**	**50 Min**
	TOTAL	**1hr 40 min**



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Puja Punia
Designation : Assistant Professor
Subject Name: Traditional embroidery & Textile
Subject Code: PCC-FA201
Branch: FAE
Semester: 3rd
Date of Start: 1-09-2025
Date of Completion: 10-11-25
Total Load: 30 hr

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Basic know- how embroidery techniques and Requirements of embroidery.	2
2	Tools and equipment required for embroidery	2
	Total	4

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Sample preparation with basic embroidery stitches and their derivatives.	2
2	Stitch: stem chain, daring, herring bone stitch	3
3	Stitches: open chain, satin, button-hole, bullion knot, lasydaisy stich.	3
	Total	8

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Working with Indian Traditional Embroidery	1
2	Special reference to fabric, embroidery, threads , colors, stitch .	1
3	Motifs Chickankari – Lucknow, Phulkari – Punjab, Kanthas – Bengal, Applique work – Orissa and Gujarat	4
4	Working with Asia Traditional Embroidery	1
5	Special reference to fabric, embroidery threads, colors, colors, stitches.	1
6	Motifs suzani Embroidery of Uzbekistan, Traditional Embroidery vitnam, Traditional gold Embroidery ofmalaysia, Philippine Embroidery	2
	Total	10

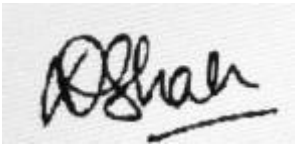
Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Sampling and Sourcing of Traditional Indian Textiles	1
2	The special reference of materials, colors, motifs and production processes	1

3	production processes- Ikat and Patola, Kalamkari, Chanderi , Kota	3
4	Production processes- Brocades, Bandhani , Block Printed Textiles	2
5	Preparation of atleast two samples with machine embroidery techniques	2
	Total	8

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR :**

1. Complete Guide to Needlework — Readers Digest
2. The Dictionary of Needlework Seward — Sophia Cauteild and Blanche
3. Ethnic embroidery of India — Usha Shrikant Vandana



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. kanchan
Designation : : Assistant Professor
Subject Name: Apparel production
Subject Code: PCC-FA202
Branch: FAE
Semester: 3rd
Date of Start: 01-09-2025
Date of Completion: 10-11-25
Total Load:21hrs 10 min

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	History and evolution of Global Textiles and Apparel industry	50 min
2	History and Evolution .Indian Garment industry	50 min
3	Indian Garment industry vis-à-vis leading countries. Apparel manufacturing countries.	50 min
4	Garment Industry features level of technology	50 min
	Total	3hrs33min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Cutting: Objectives and methods of cutting	50 min
2	Marker planning, marker plan efficiency, requirement, methods of marker planning and uses.	1 hr 40 min
3	Aids and Tool equipment for cutting- Band knife, clamp, click press, electrical cloth notcher , Straight knife cutter	1 hr 40 min
4	Circular knife, portable rotary knife cutter, Cutting Board, Cutting Table, Drill, Pattern perforator, razor blade, Scissors, Shears,	1 hr 40 min
5	Spreader and its types.	1 hr 40 min
6	Face to face spreader, Manual spreader, one way spreader, Tubular knit spreader.	1 hr 40 min
	Total	7hrs83min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Understanding of various fabrics and its effect on spreading and cutting techniques	50 min

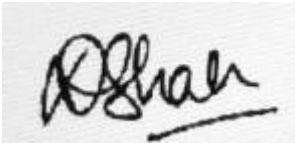
2	Spreading of fabric to form a lay, requirement of spreading and different spreading method	1 hr 40 min
3	Tracing and marking Terminology - Chalked marking, chalked thread, color coding, pin marking, tailors tacks, thread tracing	1 hr 40 min
	Total	4hrs17min

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Types of pattern – Commercial pattern, Drafted pattern, Draped pattern, Graded pattern, Production pattern.	50 min
2	Trade back pattern Pattern Lay-out – Border design fabric, check fabric,	1 hr 40 min
3	Diagonal design fabric/ Diagonal print fabric, Diagonal weave fabric, Irregular design fabric, Knit fabric, Large print fabric,	1 hr 40 min
4	Light reflecting fabric, Napped fabric, Balanced plaid, pile fabric, unbalanced plaid.	50 min
5	Uneven plaid, plastic fabric, Even stripe, Uneven stripe.	50 min
	Total	5hrs83min

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

Clothing Technology — Carr and Latham
Apparel Industry Magazine — World Clothing
Manufacturer



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Puja Punia **Designation :** Assistant Professor

Subject Name: Basic Sketching, Design Idea & Fashion Illustration Lab Subject Code: PCC-FA203

Branch: FAE **Semester:** 3rd

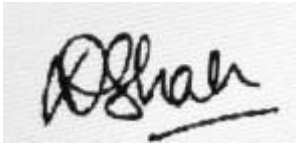
Date of Start: 01-09-2025 **Date of Completion: 10-11-25**

Total Load: 25 hrs

Module/Unit-1:

S.No	Name of Topic	Hours
1	**Practice of pencil shading, coloring techniques (dry & wet mediums)**	1
2	**Grid theory: fashion figure proportion chart (8 head, 9 head, 10 head figure)**	1
3	**Normal fashion figure (standing pose)**	1
4	**Fashion figure – front, side, back, and 3/4 view**	1
5	**Movement figures – walking, sitting, dancing/action pose**	1
6	**Study of body parts – arms, hands, legs, feet**	1
7	**Study of facial proportions**	1
8	**Different hairstyles (minimum 6–8 styles)**	1
9	**Basic fashion silhouettes – A-line, hourglass, straight, bell, etc.**	1
10	**Draped silhouettes – gathered, pleated, flared**	1
11	**Fashion details – different types of necklines**	1
12	**Fashion details – different types of sleeves**	1
13	**Fashion details – different types of collars**	1
14	**Fashion details – skirts / waistlines / yokes**	1
15	**Design details – pleats, tucks, darts, plackets**	1
16	**Fashion accessories illustration – belts, shoes, bags, jewelry**	1
17	**Fabric rendering – basic textures: cotton, silk, wool**	1
18	**Fabric rendering – velvet, denim, fur, leather**	1

19	**Tie and dye / batik effect**	1
20	**Transparent & shiny fabric effects – net, satin, organza**	1
21	**Print & texture design – floral, abstract, geometric**	1
22	**Illusion in garments – lines, color, print, silhouette shape**	1
23	**Garment design – Evening / Party / Seasonal wear**	1
24	**Final Portfolio Sheet – any 2 best designs fully rendered**	2
	TOTAL	25 HR



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Fibres Identification &Yarn Formation Lab
Subject Code: PCC-FA204
Branch: FAE
Semester: 3rd
Date of Start: 01-09-2025
Date of Completion: 10-11-25
Total Load: 25 hrs

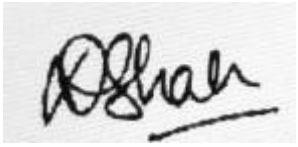
Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Study principle of microscopy.	1 hr 40 min
2	Identify fibres under microscope (longitudinal view).	1 hr 40 min
3	Prepare specimen for cross-section analysis.	1 hr 40 min
4	Microtomy using cork method.	1 hr 40 min
5	Microtomy using metal plate / Hardy's microtome.	1 hr 40 min
6	Prepare mountants and reagents for microscopy.	1 hr 40 min
7	Identify fibres by burning and solubility tests.	1 hr 40 min
	Total	11 hr 40 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Fibre mixing and blending demonstration.	1 hr 40 min
2	Fibre opening and cleaning process.	1 hr 40 min
3	Carding of fibres to form sliver.	1 hr 40 min
4	Drawing of slivers to improve parallelism.	1 hr 40 min
5	Combing of fibres for fine yarn.	1 hr 40 min
6	Rove formation for spinning	1 hr 40 min
7	Yarn spinning and doubling.	1 hr 40 min
8	Demonstration of unconventional spinning machines (rotor, air-jet, friction) & simple calculations.	1 hr 40 min
	Total	13 hr 20 min

TEXT BOOKS & REFERENCE BOOKS:	AUTHOR:
1. Handbook ofTextile Fibres	J Gordon Cook HVS Murthy
Textile Fibres	
2 .Manmade Fibres	RW Moncrieff
Manufactured FibreTechnology	VB Gupta &VK Kothari
Spun Yarn Technology	
3 .Textile Science	Corbmann
4.Short Staple Spinning Series	W. Klein



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-Dec 2025)

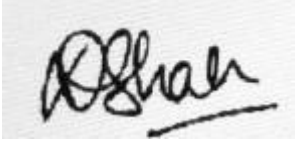
Name of Teacher: Ms. kanchan
Designation : : Assistant Professor
Subject Name: EGM&PM LAB
Subject Code: PCC-FA205
Branch: FAE
Semester: 3rd
Date of Start: 01-09-2025
Date of Completion: 10-11-25
Total Load:10hrs

Module/Unit-1:

S.No	Name of Topic	Hours
1	Selection for different types of needle according to stitching components.	4hrs
2	Selection procedure for different types of sewing and embroidery threads. Utility of different Aids and tools for Garment Construction, Basting Operation.Study of sewing machineries. Different tools and Work aids, Application of different trims and components. Study of Fusing and pressing machine procedure	4hrs
3	Introduction to the tools and material used for drafting.Drafting of child's basic and adult bodiceblocks.	4hrs
4	Drafting of different commonly used sleeves as set-in, puff, raglan, flared, lego mutton,etc.	4hrs
5	Drafting of different collars as peter-pan, sailor, mendarin and shirt collars ete.	4hrs
	Total	20 hrs

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

Clothing Technology — Carr and Latham
Apparel Industry Magazine — World Clothing
Manufacturer



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-DEC 2025)

Name of Teacher: Ms. kanchan
Designation : Assistant Professor
Subject Name: Knit & Garment technology
Subject Code: ESC-FA301
Branch: FAE
Semester: 5TH
Date of Start: 20-08-24
Date of Completion:10-11-25
Total Load: 27hrs40min

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Definition of knitting, Type of Knitted fabrics and their characteristics, End-uses of knitted fabrics	60 min
2	Fundamental Stitches : Knit, Tuck and float stitches and their uses, Stitch diagrams	50min
3	Knitting cycles of Latch, Beard and Compound Needles	60min
4	Basic weft knitted structures (Plain, Rib, Interlock and Purl) and their properties	80min
5	Description of machine for production, Design and timings of their cams	100min
	Total	5hrs83min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Wheel jacquard and Patterning devices in weft knitting like multi-cam track, swing cam, pattern electronic jacquard	120min
2	Mechanisms of operation. Development of knit structures on Circular and Flat Knitting Machine	80min
3	Quality control of various knitting processes	50min
4	Ornamentation of knitted fabrics. Derivatives of basic structures	50min
5	Milano Rib, French Rib, Swiss Rib, Single Pique, Taxi Pique, Pin Tuck of structure in knitted fabric	100min
6	Classification of warp and weft knitting machines.Classifications of warp knitting machines	120min
	Total	8hrs67min

Module/Unit 3-.....

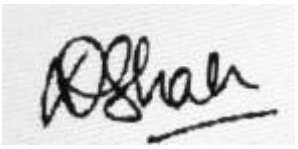
S.No	Name of Topic	Hours
1	Introduction to Knitted Garments- types and flowchart including the steps of production	60min
2	Fully Cut garments – spreading – hand and machine spreading, types of lays.	60min
3	Marking – manual and computerized marking Cutting devices as die-cutter. Hand shears, laser cutting.	60min
4	Cut stitch shaped – Fitting blocks as easy fitting and close fitting blocks and Shaping of various garments	80min
5	Cutting in case of cut stitch shaped garments Integral garments	60min
6	Basic techniques as course shaping Wales shaping, tubular knitting, running-on, change of stitch type.	100min
7	Machine knitted integral garments as berets, half hose, upper and lower bodice garments as Jacket, Wagnall garment, Tubular garment.	120min
	Total	9hrs

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Fully fashioned garments – Concepts of use of basic forms	60min
2	Fashioning for shaping, fashion frequency. Most commonly used fashion details- Necklines, sleeves.	60min
3	Application of each in Linking and Mock Linking & Linking machine	80min
4	Quality control of knitted garments	50min
	Total	4hrs17min

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

1. Knitting Technology — Wignal
2. Knitting Technology — Azgaonkar
3. Knitting Technology — Spen



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Puja punia
Designation : Assistant Professor
Subject Name: Colouration of Textile & apparel product
Subject Code: PCC-FA301
Branch: FAE
Semester: 5th
Date of Start: 17-07-2025
Date of Completion: 10-11-2025
Total Load: 30 hrs

Module/Unit-1

S.No	Name of Topic	Hours
1	Elementary knowledge and Process line for preparatory wet processing	1 hr
2	Natural and added impurities in greige cotton fabrics.	30 min
3	Overview of singeing, desizing, scouring operations with their objective, principal and mechanism, general recipe,	3hr 30 min
4	Drawbacks and advantages. Introductory idea of machines used in preparatory wet processing.	2hr
	Total	7hr

Module/Unit 2

S.No	Name of Topic	Hours
1	General introduction to bleaching and mercerisation with their objectives, mechanism,machine used, drawbacks and advantages.	2 hr
2	Introduction to heat setting: objectives and mechanism. Pretreatment processing of wool and silk textile.,	2 hr 30 min
3	concept of dyeing	1hr
4	Introductory idea of dyeing of fibre, yarn and fabric on different dyeing machines.	1hr 30 min
	Total	7 hr

Module/Unit 3

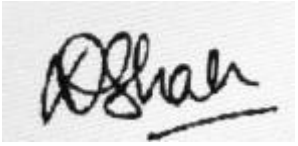
S.No	Name of Topic	Hours
1	Introductory idea of dyeing of cellulosic fibres with direct	2hr
2	Acid, basic, reactive, vat, metal complex, sulphur, azoic and pigments (overview)	7 hr
	Total	9hr

Module/Unit 4

S.No	Name of Topic	Hours
1	Dyeing concept of synthetic textile materials such as Polyester, Nylon (disperse), etc	2 hr
2	Dyeing of denim using Indigo dye. Chemical auxiliaries used in dyeing.	1hr 30 min
3	measurement and fastness (light, washing, perspiration, sublimation, chlorine, etc.) properties.	2 hr 30 min
4	Garment dyeing and processing: concept and machine used	1 hr 30 min
	Total	7 hr

TEXT BOOKS & REFERENCE BOOKS:

1. Gohl E P G and Vilensky LD, "Textile Science", CBS Publishers.
2. Chakarverty J N, "Fundamental and practices in coloration of textiles", Woodhead Publishing India Pvt Ltd,2008
3. Trotman E R, "Textile Scouring and Bleaching", Griffin, 1968.
4. Shenai VA, "Technology of Bleaching &Mercerizing", Sevak Pub., Mumbai.
5. Gulrajani M L, "Chemical Processing of Silk".
6. Shenai V A, "Technology of Dyeing", Sevak Pub., Mumbai.
7. Trotman E R,"Dyeing and Chemical Technology of Textile Fibers", B.I. Publications Pvt. Ltd.
8. Hall David M, Chemical testing of textiles: a laboratory manual, Dept. of Textile Engineering, Auburn University,198



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-Dec 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Garment production machine & equipment
Subject Code: PCC-FA301
Branch: FAE
Semester: 5th
Date of Start: 17-07-2025
Date of Completion: 10-11-2025
Total Load: 20 hrs

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Overview of the Garment Manufacturing processes, Introduction to the latest advancements in the Garment manufacturing processes	100 min
2	Fabric cutting Process: Pre-requisites for the fabric cutting. Tools and equipment needed for the cutting process	50 min
3	Advancements in the fabric cutting technology.	100 min
	Total	4 hrs 10 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Garment assembly processes	50 min
2	Functional parts of sewing machines (SNLS): Feed mechanisms, Run-in-ratio	100 min
3	Effect of sewing process on the sewing thread strength. Principle, mechanism	100 min
4	Following machines: Interlock machine, Overclock machine, Double needle Lock stitch and chain stitch sewing machines, Bar- tacking machine, Feed off the arm, Button attaching and buttonhole making machine.	100 min
5	computerized , embroidery machines.	50 min
	Total	6 hrs 40 min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Study of sewing needle temperature	50 min
2	Factors affecting and remedial measures,	100 min
3	Methods for the needle temperature measurement..Study of the measurement of the sewing forces and pressure during sewing.	50 min
4	Study of the measurement techniques of the sewing thread tension on the sewing machine	50 min

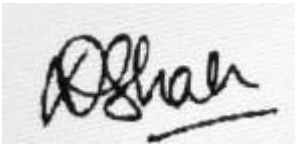
5	SNLS and overlock machines. Applications of Programmable logic circuits (PLC) in the Garment manufacturing processes	100 min
6	Robotics: Basic analogy, its applications, scope and limitations in the Garment Industry.	50 min
	Total	6 hrs 40 min

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Pressing and Fusing process and equipment	50 min
2	Handling of garments between different processes in the apparel industry	100 min
	Total	2 hr 30 min

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

Knitted Clothing Technology	Bracken burry
The Technology of Clothing Manufacture	Harold Carr, Barbara Latham
Introduction to Clothing Manufacture	Gerry Cooklin
Apparel Production	Jacob Salinger



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (JULY-DEC 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Apparel Merchandising
Subject Code: PEC-FAEL302
Branch: FAE
Semester: 5th
Date of Start: 17-07-2025
Date of Completion: 10-11-2025
Total Load: 26 hrs 40 min

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Merchandising: Concept and definition.	50 min
2	Different components and activities of merchandising–line, planning, line development and line presentation	100 min
3	Fashion forecasting and its importance. Factors influencing fashion	100 min
4	Role of a merchandiser in an apparel industry,	100 min
5	Essential qualifications of a merchandiser.	50 min
	Total	6 hrs 40 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Concept of retailing and wholesaling.	50 min
2	Classification of retailer and wholesaler. Function performed by distribution channel members.	100 min
3	Factors affecting pricing strategy.	100 min
4	Terms and definitions used in pricing. Pricing strategy commonly adopted by an apparel merchandiser	100 min
5	Mode of disposition of unsold merchandise.	50 min
	Total	6 hrs 40 min

Module/Unit 3-.....

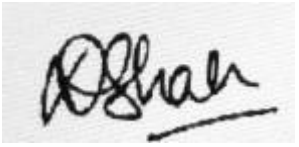
S.No	Name of Topic	Hours
1	Product line planning. Importance of planning, different steps involved in product line planning.	50 min
2	Different approaches of merchandise planning: Top -Down and Bottom –up, Approach and contemporary line planning.	100 min
3	Concept and definition of assortment planning.Objective of assortment planning.Importance of balanced assortment.Product line development	100 min
4	Various ways of product line development.	100 min
5	Line presentation and its importance in retailing.Visual merchandising.	50 min
	Total	6 hrs 40 min

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Budgeting –concept and definition. Importance of budgeting	50 min
2	Various steps involved in budgeting.	100 min
3	Dollar And unit control system	100 min
4	Integrating dollar and unit concept. Planning of inventory and reorder point.	100 min
5	Cost associated with inventory. Economic order quantity.	50 min
	Total	6 hrs 40 min

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR :**

9. Apparel Merchandising — MartinKunj
10. Fashion Merchandising and Marketing — CynthiaR.Easterlingand
11. Fashion: From Concept to Consumer — Gini Stephens Fring
12. Fashion Buying — Helen Goworek
13. Fashion Marketing — Tony Hines



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (JULY-DEC 2025)

Name of Teacher: KARAN PAL SINGH **Designation:** ASSISTANT PROFESSOR

Subject Name: Computer Aided Designing **Branch:** FAE

Semester: 5th **Subject Code: PECFAEL301-1**

Date of Start: 23/07/2025 **Total Load: 40 hrs** **Date of Completion: 21/11/2025**

Module/Unit-1: Fundamentals of CAD

S.No	Name of Topic	Hours
1	Definition, History , Hardware and Software requirements of CAD	2
2	Design Process, Application, Use	2
3	Creating the manufacturing Data base and benefits ofCAD	2
	Total	6

Module/Unit-2: Hardware in CAD

S.No	Name of Topic	Hours
1	Introduction, Design workstation	1
2	Graphics terminal, input and output devices,	2
3	Central processing unit and secondary storage.	2
	Total	5

Module/Unit-3: Computer Graphics

S.No	Name of Topic	Hours
1	Introduction to Computer Graphics – What is Computer Graphics, Computer graphics applications	2

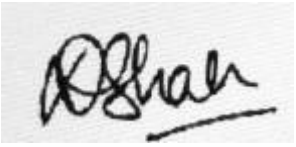
2	Computer Graphics Hardware and Software.	1
3	Two dimensional graphics primitives – Point and Lines, Line drawing algorithms	3
4	DDA, Bresenham's; Circle drawing algorithms	3
5	Midpoint circle drawing algorithm, Bresenham's circle drawing algorithm.	4
6	Numerical practise	3
	Total	16

Module/Unit 4-. Introduction to Software Packages

S.No	Name of Topic	Hours
1	Introduction to Software Packages: Introduction to Auto-CAD: Features	1
2	Basic Drawing Techniques: Drawing Line, Circle, Rectangle, Arc, Polyline, Ellipse, Elliptical Arc, Polygons, Donuts, Corner rounding, Chamfering, Displacing, Duplicating, Removing Objects	4
3	Introduction to Corel Draw – Features and basic drawing techniques	5
4	Introduction to Photoshop – Features and basic drawing techniques.	5
	Total	15

Recommended/ Reference Books:

- Computer Aided Design & Manufacturing by MikcleP Groover, EmoryW. Zimmers Jr
- Computer Graphics Principles & Practices by James D Foley, Andeies.
- Second Edition Van Da Shvan K Feiner. John F Hughes.
- Computer Graphics Donald Mearn & M Pauli ne, Baker.
- Mastering AUTOCAD2004
- AUTOCADLT2004 by George Omur



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-Dec 2025)

Name of Teacher: Ms.Priyanka **Designation: Assistant Professor**
Subject Name: Indian Constitution

Branch: EE &FAE **Semester:3rd** **Subject Code:MC01**

Date of start: 21/07/2025 **Total load: 30 hours** **Date of complete:14/11/25**

Module/Unit-1:Introduction of Constitution

S.No	Name of Topic	Hours
1	Introduction to Constitution of India	50 mins
2	Meaning of Constitution laws and constitutionalism	100mins
3	Historic perspective of the Constitution of India	100 mins
4	Salient features and characteristics of Indian Constitution	100mins
5	Fundamental rights	50mins
	Total	400 mins

Module/Unit 2- federal structure of Indian Constitution

S.No	Name of Topic	Hours
1	fundamental duties	50 mins

2	centre state relations	50mins
3	Emergency provisions	50 mins
4	Directive principles of state policy	50 mins
5	Union executive	50 mins
6	State executive	50 mins
7	Powers of Indian parliament	100mins
8	Constitutional amendments	100mins
9	Historic perspective of Constitutional amendments in india	50 mins
10	powers of president	50 mins
	TOTAL	600 mins

Module/Unit-3: local self government

S.No	Name of Topic	Hours
1	Introduction to panchayati raaj 1993	50mins
2	Municipalities	50mins
3	Structure of lacal government	50mins
	Total	150 mins

Module/Unit-4

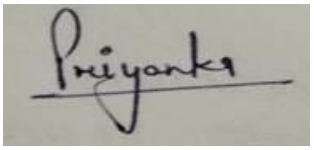
S.No	Name of Topic	Hours
1	Scheme of the fundamental right to equality	50 mins
2	Scheme of the fundamental right to equality under article 19	100mins
3	Scope of the right to life	50 mins
4	Scope of the right to personal liberty	50 mins
5	Article 21	50 mins
	Total	300mins

REFERENCES:

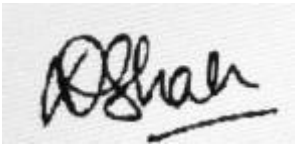
1.The Constitutional Law Of India9th Edition, by Pandey.J.N.

2.The Constitution of India by P.M.Bakshi

3. Constitution Law of India by Narender Kumar



Signature of Teacher



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Puja punia
Designation : Assistant Professor
Subject Name: Colouration of Textile & apparel product lab
Subject Code: PCC FA 303
Branch: FAE
Semester: 5th
Date of Start: 17-07-2025
Date of Completion: 10-11-2025
Total Load: 26 hrs

S.No	Name of Topic	Hours
1	To remove sizing agents from cotton fabric using different desizing methods and determine the desizing efficiency.	2
2	To remove natural impurities from cotton fabric through scouring and assess the scouring efficiency.	2
3	To bleach cotton fabric using hydrogen peroxide and evaluate the bleaching efficiency and fabric brightness.	2
4	To perform mercerization on cotton fabric to improve its luster, strength, and dye affinity.	2
5	To remove impurities from wool fabric (scouring) and enhance whiteness (bleaching) using appropriate chemicals.	2
6	To remove the sericin coating (degumming) from silk fibers and then bleach the silk for improved brightness.	2
7	To dye cotton fabric using various types of dyes (direct, reactive, sulfur, vat, and azoic) and assess color fastness.	2
8	To dye wool and silk fabrics using acid and metal complex dyes, and evaluate color intensity and fastness properties (including washing, rubbing, light, and perspiration fastness).	2
9	To dye nylon fabric using acid dyes and evaluate dye uptake, color strength, and fastness properties (washing, rubbing, light, and perspiration fastness).	2

10	To dye polyester fabric using thermosoling methods and assess dye penetration and fastness properties (washing, rubbing, light, and perspiration fastness).	2
11	To dye acrylic fabric using basic dyes and evaluate the dye uptake, color intensity, and fastness properties (washing, rubbing, light, and perspiration fastness).	2
12	To dye blended fabrics (cotton/polyester and polyester/viscose) using appropriate dyes and assess dye compatibility, uniformity, and fastness properties (washing, rubbing, light, and perspiration fastness).	2
13	To assess the fastness properties of dyed fabrics, including light, washing, rubbing, and perspiration fastness, and determine the durability of the color under various conditions.	2
	TOTAL	26 hrs

TEXT BOOKS & REFERENCE BOOKS:

1. Gohl EP G and Vilensky LD, "Textile Science", ", CBS Publishers.
2. Chakarverty J N, "Fundamental and practices in colouration of textiles", Woodhead Publishing India Pvt Ltd, 2008
3. Trotman E R, "Textile Scouring and Bleaching", Griffin, 1968.
4. ShenaiVA, "Technology of Bleaching & Mercerising", Sevak Pub., Mumbai.
5. Gulrajani M L, "Chemical Processing of Silk". Shenai V A,"Technology of Dyeing", Sevak Pub., Mumbai.
6. Trotman E R, "Dyeing and Chemical Technology of Textile Fibres", B.I. Publications Pvt. Ltd.
7. Hall David M, Chemical tesha of texiles: a laboratory manuglept of Texil Engineering, Auburn University, 1981

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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

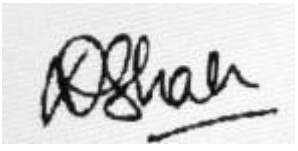
DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-Dec 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Apparel Construction II
Subject Code: PCC-FA304
Branch: FAE
Semester: 5th
Date of Start: 17-07-2025
Date of Completion: 10-11-2025
Total Load: 16 hr 40 min

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Principle of Dart Manipulation – Slash and Spread Method	100 min
2	Principle of Dart Manipulation – Pivotal Transfer Method	100 min
3	Style Variation – Pleats	100 min
4	Style Variation – Tucks	100 min
5	Style Variation – Gathers	100 min
6	Style Variation – Dart Clusters	100 min
7	Style Variation – Radiating Darts	100 min
8	Style Variation – Terminating Darts	100 min
9	Commercial Paper Patterns – Symbols	100 min
10	Commercial Paper Patterns – Envelopes & Guide Sheets	100 min
	Total	16 hr 40 min



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. kanchan
Designation : Assistant Professor
Subject Name: Knit design & Development lab
Subject Code: ESC-FA301
Branch: FAE
Semester: 5TH
Date of Start: 20-08-25
Date of Completion:10-11-25
Total Load: 20hrs

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Study of warp patterning through sectional warping.	2hrs
2	Study of weft patterning through drop box motion.	2hrs
3	Study of weft patterning though electronic dobby and jacquard.	2hrs
4	To prepare fabric samples ondesk looms/hand looms with basic weaves like plain, twill, satin, sateen, matt and some decorative weaves like honey comb, mock-leno, crepe, screw etc.	2hrs
5	To study single jersey, rib, interlock circular weft knitting m/cs.	2hrs
6	Practice of fabric sample preparations on these m/cs.	2hrs
7	To study flatbed weft knitting m/cs	2hrs
8	Practice of fabric sample preparations on these m/cs.	2hrs
9	To prepare different knitted fabric design by combination of knit tuck and float using pattern wheel jacquard in circular m/c.	2hrs
10	Study of different types of fabrics and their specifications according to their end use.	2hrs
	Total	20hrs

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

14. Knitting Technology — Wignal
15. Knitting Technology — Azgaonkar
16. Knitting Technology — Spen

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Signature of Teacher **Approved by HOD/Dean** **Approved by IQAC Director/Dean Academics**

NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Textile & apparel Finishing
Subject Code: PCC-FA401
Branch: FAE
Semester: 7th
Date of Start: 14-07-2025
Date of Completion: 10-11-25
Total Load: 25 hrs

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Introduction to textile finishing	50 min
2	Aim and scope. Classification of finishes	100 min
3	Concept of permanent and temporary finishes	50 min
4	Various finishes in industrial practices such as raising and shearing, drying	100 min
	Total	5 hrs

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Mechanism of shrinking and pre-shrunk fabric. Sanforizing – method and mechanism	100 min
2	Brief concept of finishing of wool	50 min
3	Crabbing, decatising, milling, shrink finishing of wool	100 min
4	General chemical finishes like softening, stiffening, delustering of rayon	50 min
	Total	5 hrs

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Introduction and preliminary concepts of specialty finishes	100 min
2	Textile and garments, anti-crease finish	100 min
3	Water repellent and water proof finish	50 min
4	Flame-proof and flame-retardant finish	100 min
	Total	5 hrs 50 min

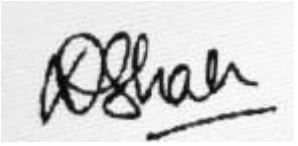
Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Introduction and preliminary concepts of specialty finishes- Soil and oil, repellent finish	150 min
2	Anti-static finish, antimicrobial finish	50 min
3	Introduction of enzymes	50 min
4	Enzymes and their applications in finishing of textiles and garments	100 min
5	Finishing of denim: stone wash, enzyme wash	50 min
6	enzyme wash and some other specialty finishes	100 min

7	Brief introduction to garment finishing machines.	50 min
	Total	9 hrs 10 min

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

17. Gohl E P G and Vilensky LD, "Textile Science", CBS Publishers
18. JT Marsh, an Introduction to Textile Finishing, Chapman and Hall, 2nd Ed, London, 1966.
19. Shenai V A, Textile Finishing, Sevak Pub.,Mumbai.
20. J N Chakarverty, "Fundamental and practices in colouration of textiles", Wood Head Publication, India, 200.



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Fiza
Designation : Assistant Professor
Subject Name: Textile & apparel Finishing
Subject Code: PCC-FA401
Branch: FAE
Semester: 7th
Date of Start: 14-07-2025
Date of Completion: 10-11-25
Total Load: 25 hrs

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Introduction to textile finishing	50 min
2	Aim and scope. Classification of finishes	100 min
3	Concept of permanent and temporary finishes	50 min
4	Various finishes in industrial practices such as raising and shearing, drying	100 min
	Total	5 hrs

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Mechanism of shrinking and pre-shrunk fabric. Sanforizing – method and mechanism	100 min
2	Brief concept of finishing of wool	50 min
3	Crabbing, decatising, milling, shrink finishing of wool	100 min
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	Total	5 hrs

Module/Unit 3-.....

S.No	Name of Topic	Hours
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S.No	Name of Topic	Hours
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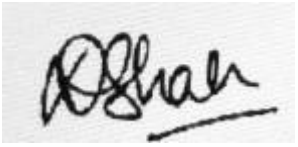
21. Gohl E P G and Vilensky LD, "Textile Science", CBS Publishers
22. JT Marsh, an Introduction to Textile Finishing, Chapman and Hall, 2nd Ed, London, 1966.
23. Shenai V A, Textile Finishing, Sevak Pub.,Mumbai.
24. J N Chakarverty, "Fundamental and practices in colouration of textiles", Wood Head Publication, India, 2008



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. kanchan
Designation: Assistant Professor
Subject Name: Textile & Apparel costing
Subject Code: PCC-FA402
Branch: FAE
Semester: 7th
Date of Start: 21-08-25
Date of Completion: 10-11-25
Total Load: 20.hrs

Module/Unit-1:

S.No	Name of Topic	Hours
1	General Cost Concept: Classification of cost (Fixed, Variable, Semi-variable and Total Cost), Cost elements (direct, indirect)	80min
2	Planning and storage of materials, pricing and control of materials, computation and control of labour cost	80min
3	Overhead costs: Classification and accumulation, allocating service department costs, distribution and absorption,	100min
4	Marketing and administration, depreciation and miscellaneous	70min
	Total	5hrs5min

Module/Unit 2

S.No	Name of Topic	Hours
1	Methods of costing: Single or output costing, job order cost system	80min
2	introduction to other methods of costing.	60min
3	Cost control techniques: standard costing, variance analysis (Materials and labour, overheads, sales and marketing). Cost control and cost reduction	120min
	Total	4hrs33min

Module/Unit 3-.....

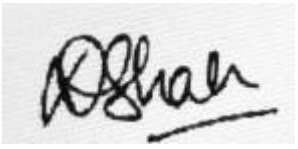
S.No	Name of Topic	Hours
1	Costing in textile industry: Cost structure, raw material cost, labour cost and other expenses.	60min
2	Yarn realization, determination of cost per kg of yarn, per meter of fabric. Cost of dyeing/printing per meter fabric.	100min
3	Value loss, selling price decision of fabric.Costing in	80min
	Total	4hrs

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Dollar Planning and control: Introduction, Responsibilities for a dollar plan, Requirements of a dollar plan, Approach to a dollar plan, Elements of the dollar plan .	160min
2	Retail inventory method- Advantages, Applications,	80min
3	The dollar plan in action.	50min
4	Control system, Controls and Fashion consideration.	80min
	Total	6hrs17min

TEXT BOOKS & REFERENCE BOOKS:

1. Sidney Packard, "Fashion Buying & Merchandising",Fairchild.
2. B.M.L. Nigam, G.L. Sharma ,"Advanced cost accounting", Himalaya Publishing House, Delhi,2007.
3. Harold Carr / John Pomeror ,"Fashion Design & Product Development", WielyIndia.
4. Michael Jeffry,"Costing ofapparel".
5. Dodge, R., Foundation of Business Accounting, Chapman and Hall,1993.
6. Drury, C., Costing, An Introduction, Chapman and Hall,1998.
7. Holmes, G. and Sugden, A., Interpreting Company Reports and Accounts, Woodhead-Faulkner,1999.
8. Horngren, C.T., Introduction to Management Accounting, PrenticeHall,1996..



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. kanchan
Designation : Assistant Professor
Subject Name: Quality assurance in apparel industry
Subject Code: PCC-FA301
Branch: FAE
Semester: 7th
Date of Start: 20-08-25
Date of Completion: 10-11-25
Total Load: 13hrs 40min

Module/Unit-1

S.No	Name of Topic	Hours
1	Definition& importance of Quality	50min
2	Tools of quality control	50min
	Total	1hrs40min

Module/Unit 2

S.No	Name of Topic	Hours
1	Quality Control – Principles of Quality Control	60min
2	Total quality control, statistical quality control, quality circle	80min
3	Quality and profitability, Quality control in fusing.	100min
	Total	4hrs

Module/Unit 3-.....

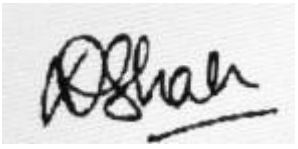
S.No	Name of Topic	Hours
1	Inspection – Definition, inspection, loop	80min
2	material inspection, in-process inspection, final inspection,	100min
3	comparability checks	50min
	Total	3hrs83min

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	ISO-9000 series of standards. Quality assurance, TQM, Six Sigma	100min
2	Care labeling of apparel and textiles – American care labeling system, British care labeling system, and Japanese care labelling system.	150min
	Total	4hrs17min

TEXT BOOKS & REFERENCE BOOKS:

1. An Introduction to Quality Control for the apparel Pradip VMehta
2. Managing Quality in the Apparel Industry Satish Bhardwaj& VMehta
3. The Technology of Clothing Manufacture Harold Care & Barbara Lat



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Puja Punia
Designation : Assistant Professor
Subject Name: Fashion accessories
Subject Code: PEC-FAL402
Branch: FAE
Semester: 7th
Date of Start: 20-07-25
Date of Completion: 10-11-25
Total Load: 23hrs

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Fashion Accessories – definition and classification	1
2	Usage of different raw materials as leather, fur, beads, metal etc.	2
3	Various notion and trims used in fashion accessories.	1
	Total	4

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Leather Accessories: Brief idea about processing of leather, fashion leather terminology, care of leather	1:30
2	Leather Garments: Pattern making, needle and sewing thread specifications and finishing of garments. Leather Footwear: Parts of shoe, brief shoe designing	2
3	development last, pattern making, die-manufacturing, cutting, fitting, assemblage of remaining components, bottoming, finishing, caring of footwear	2
4	Handbags and belts: Construction and style of each.	1:30
	Total	7

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Jewellery Designing: Different metals and stones, faceted cuts used for jewellery designing.	2
2	Brief production tech as fusing, soldering, cutting etc, stone settings, Different jewellery styles as rings, bracelets, necklaces, tiara etc	2
3	Different stone setting as buttercup, inlay etc.	2
	Total	6

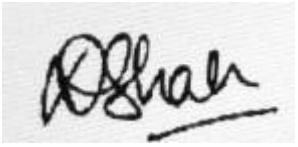
Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Other accessories: Glove: Material used, component part of glove, glove construction, care of glove	2
2	Hosiery: Materials, Construction, Sizes and Care.	2

3	Hats: Construction, care of hats.	1
4	Scarves: Construction, Care and styles	1
	Total	6

TEXT BOOKS & REFERENCE BOOKS: **AUTHOR:**

1. Know your Fashion Accessories Meadows
2. Fashion Apparel & Accessories Diamond, Jay &Ellen



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. kanchan
Designation : Assistant Professor
Subject Name: Home & Industrial textile product
Subject Code: PEC-FAL401
Branch: FAE
Semester: 7th
Date of Start: 20-08-25
Date of Completion: 10-11-25
Total Load: 13hrs50min

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Introduction to Home Fashion, Present scenario of Home Fashion	60min
2	Textile market in the domestic and international market	60min
	Total	2hrs

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Selection of raw material and the essential characteristics of Home Textile materials	80min
2	Different home fashion fabrics – Table Linens, Bedspreads	60min
3	Different home fashion fabrics - Curtains, other draperies	60min
	Total	3hrs33min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Advanced fabric structures for Home Textile materials – Brocade, Damask, Gauz.	100min
2	Advanced fabric structures for Home Textile materials –, Leno, Upholstery fabrics	80min
3	Floor Coverings – Carpets (domestic and machine made and rugs).	60min
	Total	4hrs

Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Design criteria of Home Fashion/Textile material Presentation techniques – Flat sketches, Mood board, Storyboard, Portfolio.	150min
2	Design criteria of Home Fashion/Textile material Presentation techniques – Storyboard, Portfolio	120min
	Total	4hrs5min

TEXT BOOKS & REFERENCE BOOKS:

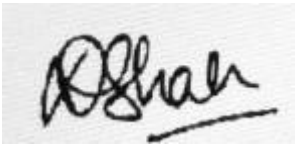
1. Watson‘s Advanced Textile Design Z J Grosicki

2. Textile Fabrics and theirSelection,7thEd Isabel B. Wongate

3. Fashion & Furnishing Intenrational Inside the Fashion Business K G Dickerson

4. Fashion from Conceptto Consumer G S Frings

5. Pattern-making for Fashion Design H J Armstrong



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Fiza
Designation: Assistant Professor
Subject Name: Research & IPR
Subject Code: Civil OEC3
Branch: FAE
Semester: 7th
Date of Start: 14-07-2025
Date of Completion: 10-11-25
Total Load: 15 hrs 50 min

Module/Unit-1: .....

S.No	Name of Topic	Hours
1	Meaning of research problem, Sources of research problem, Criteria Characteristics of a good research problem,	100 min
2	Errors in selecting a research problem, Scope and objectives of research problem. Approaches of investigation of solutions for research problem	100 min
3	Analysis of Data collection, interpretation, Necessary instrumentations.	50 min
	Total	4 hrs 10 min

Module/Unit 2-.....

S.No	Name of Topic	Hours
1	Effective literature studies approaches, analysis Plagiarism, and Research ethics.	100 min
2	Research ethics.	50 min
	Total	2 hrs 30 min

Module/Unit 3-.....

S.No	Name of Topic	Hours
1	Nature of Intellectual Property: Patents, Designs, Trade and Copyright. Process of Patenting and Development.	100 min
2	Technological research, innovation, patenting, development , International	50 min
3	Scenario: International cooperation on Intellectual Property	100 min
4	Procedure for grants of patents, Patenting under PCT.	100 min
	Total	5 hrs 50 min

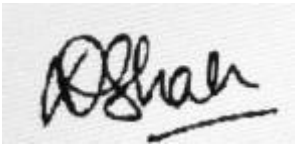
Module/Unit 4-.....

S.No	Name of Topic	Hours
1	Patent Rights: Scope of Patent Rights	50 min
2	Licensing and transfer of technology	50 min
3	Patent information and databases. Geographical Indications.	100 min

	Total	3 hrs 20 min

TEXT BOOKS & REFERENCE BOOKS:

3. Stuart Melville and Wayne Goddard, "Research methodology: an introduction for science & engineering students'"
4. Wayne Goddard and Stuart Melville, "Research Methodology: An Introduction"
5. Ranjit Kumar, 2nd Edition, "Research Methodology: A Step by Step Guide for beginners"
6. Halbert, "Resisting Intellectual Property", Taylor & Francis Ltd ,2000



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NGF COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF FASHION & APPAREL ENGINEERING

LESSON PLAN (July-dec 2025)

Name of Teacher: Ms. Puja Punia
Designation : Assistant Professor
Subject Name: Apparel draping & grading lab
Subject Code: PCC-FA404
Branch: FAE
Semester: 5TH
Date of Start: 20-08-25
Date of Completion:10-11-25
Total Load: 24 hrs

S.No	Name of Topic	Hours
1	To understand the fundamental principles and techniques of fabric draping.	1
2	To develop the skill of fault-free draping on a dress form using muslin or similar fabrics.	2
3	To practice draping the basic bodice block accurately on a standard dress form.	2
4	To explore and apply variations in bodices according to different design requirements.	2
5	To drape a basic skirt and understand its fit, fall, and structure on the form.	1
6	To create variations of the skirt through draping techniques (e.g., flare, gathers, pleats).	1
7	To enhance the ability to interpret a designer's sketch into a three-dimensional draped garment.	2
8	To introduce the concept of grading and its significance in garment production.	1
9	To learn and apply the fundamentals of manual grading using standard size charts.	2
10	To perform grading of basic bodices using the Z-track method.	2
11	To perform grading of basic bodices using the 3-track method.	1
12	To compare and evaluate the accuracy and usability of different grading techniques.	2
13	To familiarize students with computerized grading using Lectra or equivalent CAD software.	1
14	To provide hands-on practice using software tools for both draping and grading.	2
15	To develop technical accuracy and confidence in both manual and digital pattern development workflows.	2
	Total	24hr

TEXT BOOKS & REFERENCE BOOKS:

1. Armstrong, Pattern Making for Fashion Design, Dorling Kindersley publication.

2. Aldrich, Metric Pattern Cutting Men's wear 4 Ed., Blackwell publication.

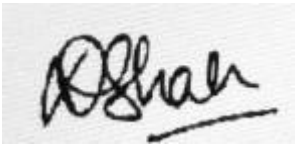
3. Aldrich, Metric Pattem Cutting for Children wear & baby wear, Blackwell publication.

4. Aldrich, Pattem Cutting for Women tailored Jacket, Blackwell publication.

5. Holman, Pattern Cutting Made Easy, Batsford publication.

6. Cooklin, Patter Grading Men's cloth, Blackwell publication.

7. Cooklin, Pattern Grading Women's cloth, Blackwell publication.



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