

**DISCIPLINE SPECIFIC ELECTIVE COURSE
DSE HP 8D2: APPAREL PRODUCTION**

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course Title & Code	Credits	Credit Distribution of the Course			Eligibility Criteria	Pre-requisite of the Course (if any)
		Lecture	Tutorial	Practical/ Practice		
Apparel Production DSE HP 8D2	4	2	0	2	Class XII	Studied Pattern Making and Construction for Women's Wear DSE HP 5D1 OR Designing for Children's Wear DSE HP 5D2:

Learning Objectives

- To gain an understanding of the structure, operations, and key functional areas within the garment industry.
- To learn the processes involved in garment production, spanning pre-production, production, and post-production stages.
- To become familiar with the materials, machinery, tools, and equipment used in garment manufacturing.

Learning Outcomes

The students will be able to

- Explain the steps involved in pre-production, production, and post-production of garments.
- Use drafting techniques to develop patterns and produce finished garments.
- Utilize sewing machines, cutting tools, and other production equipment effectively.
- Identify common garment defects and suggest corrective actions using quality control methods.

SYLLABUS OF DSE HP 8D2

**THEORY
(Credits 2; Hours 30)**

UNIT I: Overview of Apparel Industry

3 Hours

This unit introduced the student to major sectors of the apparel industry and the major production systems used in the apparel industry.

- Major sectors of the apparel industry: Design, production, marketing, and retail
- Production systems

UNIT II: Pre-production Processes in Apparel Production

6 Hours

This unit focuses on pre-production processes like pattern making, sampling, and fabric sourcing. It also covers tech-packs and the role of time and motion studies in enhancing productivity.

- Pre-Production Processes: Recording measurements, developing patterns, sourcing fabrics
- Specification sheets/tech-packs, and planning and controlling production workflows.
- Time and Motion Study in Apparel Production

UNIT III: In-production Processes in Apparel Production

15 Hours

This unit helps students understand in-production processes in garment manufacturing, including marker-making, fabric spreading, cutting, and fusing. It also explores stitching tools, techniques, and machine mechanisms, emphasizing efficiency and quality control.

- Marker Making: planning, production, and methods to optimize fabric usage and efficiency
- Fabric Spreading: various methods for spreading fabric
- Cutting: methods and tools used for fabric cutting, ticketing, and bundling processes.
- Fusing: advantages, requirements, processes, equipment, methods, and quality control techniques for fusing.
- Stitching: Types of sewing machines, machine bed and feed mechanism, sewing needles types, sewing threads, stitch and seam types and seam defects and remedies

UNIT IV: Post-production Processes in Apparel Production

6 Hours

This unit covers key post-production processes, focusing on quality evaluation of garment components. It also explores finishing techniques such as trimming, pressing, packing, and shipment preparation for market-ready products.

- Evaluating the Quality and Fit of Garment Components: fit and quality of various garment components such as necklines, collars, sleeves, cuffs, plackets, pockets, seams, hemlines, darts, pleats, gathers, flares, tucks, yokes, and waistbands.
- Garment Finishing: trimming, stain removal, cleaning, dry-cleaning, pressing, checking, folding, packing, warehousing, and transportation.

PRACTICAL

(Credit 2; Hours 60)

1. Developing patterns in bodices with yoke variations, dart clusters, graduated darts, parallel darts, asymmetric darts, radiating darts etc.
2. Drafting of shirt collar, shawl collar, peter pan collar on altered neckline
3. Sleeve variations with shirtmaker, bishop, and leg-o-mutton
4. Construction of samples
 - Kurta placket
 - Zipper attachment
 - Patch and In-seam pocket
5. Construction of Blouse/Kurta/Top
6. Construction of one lower garment

Essential Readings

- Aldrich, W. (2008) *Metric Pattern Cutting for Women's Wear*, ISBN 10: 1405175672 / ISBN 13: 9781405175678, Wiley Blackwell Publication.
- Armstrong, H. J. (2014). *Pattern making for fashion design* (5th ed.). Dorling Kindersley, New Delhi.
- Brown, P. and Rice, J. (2014). *Ready to Wear Apparel Analysis*. Fourth Edition. Pearson Education, India.
- Cooklin, G., Hayes (Ed.), McLoughlin J. (Ed.). (2006). *Introduction to Clothing Manufacture*. Second Edition. Blackwell Scientific Publication, U.K.
- Tyler, D.J. (2008). *Carr and Latham's technology of clothing manufacture* (4th ed.). Blackwell, U.K.

Suggested Readings

- Glock, R. E., & Kuntz, G. I. (2009). *Apparel manufacturing: Sewn product analysis*. (4th ed.). Pearson Education, New Delhi.
- Stamper, Sharp and Donnell, (1991), *Evaluating Apparel Quality* (2nd edition), Fairchild Publications, New York.
- Dunham, G. R., (2021) *The Fitting Book: Make Sewing Pattern Alterations and Achieve the Perfect Fit You Desire*, ISBN: 9783033083745, Gina Renee Designs Publication, India.
- Azad, N., (2019), *Sewing Technology*, Neelkanth Publishers Pvt. Ltd. India.
- Aggarwal, J., Yadav, S., & Sonee, N. (2024). *Manual for B.Sc. Home Science Pattern Making and Apparel Construction*. Elite Publishing House, New Delhi. ISBN 978-81-95556-78-6.
- MacDonald, Nora M. (2010), *Principles of Flat-Pattern Design*, Fairchild Books, New York.
- Reader's Digest (Eds.). (2002). *New complete guide to sewing: Step-by-step techniques for making clothes and home accessories*. Reader's Digest, New York.

Note: Examination scheme and mode shall be as prescribed by the Examination branch, University of Delhi, from time to time