

**B.A (Prog.) with Apparel Design and Construction (ADC) as Non-Major
Category-III**

**DISCIPLINE SPECIFIC CORE COURSE – DSC-10-ADC:
GARMENT PRODUCTION**

CREDIT DISTRIBUTION, ELIGIBILITY AND PRE-REQUISITES OF THE COURSE

Course Title & Code	Credits	Credit distribution of the course			Eligibility Criteria	Prerequisite of the course
		Lecture	Tutorial	Practical/ Practice		
Garment Production	4	3	1	0	Class XII	NIL

Learning Objectives:

- To provide an overview of the functions and processes of various departments of a Garment production unit.
- To create an understanding of the garment production systems and the role of time and motion studies in productivity.

Learning Outcomes:

After completion of the course, the students will be able to:

- Describe the Steps and strategies involved in the sourcing of fabrics and trims for garment production.
- Explain the role of Marker making, Marker Modes, Marker efficiency in garment production.
- Explain the processes involved in spreading, layout and cutting
- Identify and describe the function of general and specialised sewing machines, types of machine beds and related seams and stitches
- Explain the processes used in finishing and packing department.
- Compare and evaluate the alternative systems of production.
- Explain the importance of time and motion studies to improve productivity in garment production.

SYLLABUS OF DSC-10

**THEORY
(Credits 3; Hours 45)**

UNIT – 1: Sourcing of fabrics and trims

10 Hours

This unit aims at providing a basic understanding of the steps involved in sourcing of raw materials required for garment production.

- Role and Functions of sourcing department
- Steps and strategies of sourcing – Commercial and technical specification of the required fabrics and trims, types of sources, finalisation of vendors and order placement

UNIT 2: Spreading, Marker making and Cutting

10 Hours

This unit provides an understanding of the various equipment and processes used in marker making, spreading, layout and cutting room.

- Marker Making – Marker making and fabric consumption, Marker Modes, Marker efficiency
- Spreading and Layout – Spreading methods, Spreading Machines, Splicing, Fabric (Symmetrical and asymmetrical), Types of Lay
- Cutting Room – Cutting room workflow, Cut order planning, Cutting equipment, Fabric Reconciliation

UNIT – 3: Sewing, Finishing and Packing department

15 Hours

This unit provides an understanding of the various equipment and processes used in sewing, finishing and packing department.

- Sewing Room – Functions of sewing department, General and specialised sewing machines, Seams and stitches
- Finishing Department - Functions of finishing department, finishing equipment, types of pressing, washing and dry cleaning, Stain and dry removal, Types of folds, Folding equipment and accessories
- Packing department – Packing and packing material, types of packing, packing list

UNIT 4 – Production Systems and Productivity

10 Hours

This unit introduces the concept of Production systems and time and motion studies in garment production.

- Production systems: Make through system, Section or process system, Whole Garment Production System, Assembly Line System, Bundle system and PBS, Straight line or synchro, Unit production system, Modular Production System
- Role of time and motion study in the productivity of garment production.

TUTORIALS (Credits 1; Hours 15)

Tutorial classes will involve:

1. Q&A sessions/ Group discussions/ Problem Solving exercises with the Students
2. Presentation of project/ research activity by students
3. Any other scholastic work related to application of conceptual understanding of the subject.
4. Evaluation and feedback by the teacher

ESSENTIAL READINGS:

- N. Gokarneshan, (2019), *Garment Manufacturing Technology*, Abhishek Publications
- Gerry Cooklin, Steven George Hayes, John McLoughlin, (2006), *Introduction to Clothing Manufacture*, Wiley-Blackwell
- Shukla Atul, Tyagi Dharmendra, (2023), *Productivity Improvement in Garment Manufacturing Process*, LAP Lambert Academic Publishing
- T Karthik, (2016), *Apparel Manufacturing Technology*, Taylor and Francis

SUGGESTED READINGS:

- Eiri Staff, (2007), *Hand Book of Garments Manufacturing Technology*, Educa Books
- Jaeil Lee, Camille Steen, (2019), *Technical Sourcebook For Apparel Designers*, Bloomsbury
- Jung Ha-Brookshire, (2017), *Global Sourcing in the Textile and Apparel Industry*, Bloomsbury Publishing Plc
- Sarkar Prasanta, (2015), *Garment Manufacturing: Processes, Practices and Technology*, Online Clothing Study

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