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Department of Home Science **Semester – II**

B.A (Prog.) with Apparel Design & Construction (ADC)

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B.A (Prog.) with Apparel Design and Construction (ADC) as Major

Category-II

**DISCIPLINE SPECIFIC CORE COURSE – DSC-3-ADC:
GARMENT DETAILING**

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 Detailing	4	2	-	2	Class XII Pass	DSC-1-ADC and DSC-2-ADC

Learning Objectives:

1. To impart basic knowledge required for layout planning on fabrics requiring special attention
2. To familiarise the students about the concepts related to the handling of special fabrics
3. To create an understanding of designing clothes for people with special needs.
4. To develop pattern making and construction skills for various garments and their components
5. To impart skills for developing design variations through dart manipulations

Learning Outcomes:

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

1. Plan pattern layout on fabrics with special requirements
2. Calculate the fabric requirement per garment
3. Make use of different marker making methods
4. Use design variations of garment components in garment construction
5. Carry out dart manipulation according to design variations
6. Handle special fabrics during pattern layout and sewing
7. Design clothes for people with special needs

SYLLABUS OF DSC-3

Theory:

Unit 1: Layout planning (8 Hours)

- *Unit Description:* This unit deals with planning on special fabrics, assessing fabric requirement per garment and marker making.
- *Sub Topics:*
 - Pattern Layouts on special fabrics- unidirectional, bold and large prints, stripes and checks, border design, irregular design fabric, napped fabric
 - Calculation of material requirement for garment construction
 - Marker Making – Factors influencing marker making, Methods of marker making.

Unit 2: Design variations in Garment Components (12 Hours)

- *Unit Description:* This unit focuses on the study of garment components and their design variations. It also covers dart manipulation and creating design variations.
- *Sub Topics:*
 - Study of Garment components – terms, types and Styles, evaluation criteria – Necklines, Collars, Sleeves, Cuff, Yokes, Pockets, Plackets
 - Design variations in bodice, skirts, silhouettes, trousers
 - Dart manipulation: Definition, Principles, Methods, dart equivalents

Unit 3: Handling of Special Fabrics (10 Hours)

- *Unit Description:* This unit provides the basic knowledge relating to special fabrics and their handling. It also deals with the concepts and requirements of self-help garments and maternity wear.
- *Sub Topics:*
 - Definition and features of Special fabrics
 - Handling of fabrics with reference to designing, layout, marking, cutting, stitching, needle sizes, stitch sizes, threads used, seams and other special considerations – Sheer and slippery fabrics, napped and pile fabrics, lace, silk & crepe, velvet, wool, knits, plaids and stripes. Preparation of a sample file.
 - Garment designing for special needs: basic principles and design requirements – Self-help, maternity wear

Practical:

Unit 1: Basic Blocks and Dart Manipulation

(20 Hours)

- *Sub Topics:*
 - Dart manipulation techniques - Single and double dart series, style lines, Yokes, adding fullness
 - Hip length/ Torso Draft
 - Trousers Block
 - Men's Bodice Block

Unit 2: Construction of Garments and their Components

(40 Hours)

- *Sub Topics:*
 - Preparation of Samples of any three styles of Sleeves
 - Preparation of Samples of any three styles of Collars
 - Preparation of Samples of any three styles of pockets
 - Preparation of Samples of Plackets - continuous bound, even hem, zipper, tailored placket
 - Designing and stitching of one upper and one lower garment

Essential/ Recommended Readings:

1. Armstrong, H.J., (2009), Pattern Making for Fashion Design, Harper Collins Publishers Inc., New York.
2. Liechty, E.G., Potterberg, D.N., Rasband, J.A., (2010), Fitting and Pattern Alteration: A Multimethod Approach, Fairchild Publications, New York
3. Macdonald Nora M., (2009), Principles of Flat-Pattern Design, Fairchild Books, New York.
4. Shaeffer Claire, (2003), Sew any Fabric, Krause Publications

Suggested Readings:

1. Brown, P. and Rice, J., (1998), Ready-to-wear Apparel Analysis, Prentice Hall
2. Kallal, M. J., (1985), Clothing Construction, Macmillan Publishing Company, New York
3. Mansfield, E. A. & Lucas, E. L., (1974), Clothing Construction, Houghton Mifflin
4. Stamper, A.A., S. H. Sharp and L.B. Donnell, (1986), Evaluating Apparel Quality, Fairchild Publications, US

**DISCIPLINE SPECIFIC CORE COURSE – DSC-4-ADC:
BASIC PATTERN MAKING AND CLOTHING CONSTRUCTION**

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		
Basic Pattern Making and Clothing Construction	4	2	-	2	Class XII Pass	Nil

Learning Objectives:

1. To introduce students to basic concepts of Body measurements and pattern making
2. To equip the students with the knowledge of pattern layout, fabric cutting, garment sewing and assessing fit in a garment.

Learning Outcomes:

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

1. Take measurements from body and garments accurately.
2. Create patterns of simple women's clothes and apply the pattern information correctly.
3. Operate a sewing machine for simple sewing tasks using the correct thread, needle and stitch length for various fabrics.
4. Use various types of seams and seam techniques during garment construction
5. Apply concept of fit, evaluate garment fit and do pattern alterations as necessary.

SYLLABUS OF DSC-4

Theory:

Unit 1: Body Measurements and Pattern Making (10 Hours)

- *Unit Description:* This unit introduces the students to the process of taking measurements from body or garment and developing basic blocks for creating garment patterns. It also provides an understanding of the different types of patterns as well as using the symbols and markings mentioned on a pattern correctly.
- *Sub Topics:*
 - Importance of Body measurements, Body Landmarks, Correct procedure of taking body measurements, size charts, Taking measurements from Garments
 - Garment Ease - type and amount in different garments

- Basic Blocks and their importance
- Methods of pattern development: Drafting, Flat pattern making, Draping
- Types of paper pattern - Commercial pattern, Graded pattern, Production pattern
- Pattern information and marking symbols and their importance

Unit 2: Sewing Machines

(8 Hours)

- *Unit Description:* This unit provides the essential knowledge required for operating and maintaining a sewing machine for garment construction.
- *Sub Topics:*
 - Classification of Sewing machines
 - Components of a Basic Sewing machine and their functions
 - Introduction to Industrial sewing machines- single needle lock stitch, overlock, blind stitching, button hole and button stitching, bartacking
 - Sewing defects and remedies
 - Care and maintenance of a sewing machine, precautions while working on a sewing machine
 - Selection of threads, needles and stitch length for various fabrics

Unit 3: Sewing Techniques and Garment Fit

(12 Hours)

- *Unit Description:* This unit imparts knowledge of seam categories and seam techniques. It also deals with the concept of garment fit and correcting fitting problems through pattern alteration.
- *Sub Topics:*
 - Garment Support Fabrics (Lining, Underlining, Interlining, Interfacing) – their use and selection
 - Basic seam categories- super imposed seam, lapped seam, bound seam, flat seam, decorative seam, ridge seam
 - Additional seam techniques: clipping, notching, grading, trimming, easing, under stitching, stay stitching, trimming a corner
 - Finishing of straight & curved edges- self finish, crossway strips, bias facing, bias binding, shaped facing, self-finishing, casings and finishing with trims
 - Elements of Fit: line, ease, grain, set and balance
 - Fit evaluation, Common fitting problems and pattern correction

Practical:

Unit 1: Development of Basic Blocks and design variations

(20 Hours)

- *Subtopics:*
 - Adult women's bodice block, sleeve block, skirt block
 - Developing design variations in adult skirt- A-line, flared, wrap-around, pleated, skirt with yoke

Unit 2: Seams and Garment Construction

(40 Hours)

- *Subtopics:*
 - Samples of Seams – Plain Seam, French seam, Run-n-fell seam, Lapped seam, Top stitching, Bound/Piped seam, Slot seam, Curved and Corner seam
 - Necklines and their finishing: bias facing, bias binding, shaped facing
 - Adaptation of basic blocks to construct Saree blouse, Kurti/Kameez, Skirt
 - Construction of lower garments: Salwar/ Churidar, Palazzo

Essential Readings:

1. Armstrong, H.J., (2009), Pattern Making for Fashion Design, Harper Collins Publishers Inc., New York.
2. Brown, P. and Rice, J., (1998), Ready-to-wear Apparel Analysis, Prentice Hall
3. Colton V. (1995). Reader's Digest- Complete Guide to Sewing. New York: The Reader's Digest Association, Inc.
4. Knowles A. (2006). Patternmaking for Fashion Designers. New York: Fairchild Publications Inc.
5. Liechty, E.G., Potterberg, D.N., Rasband, J.A., (2010), Fitting and Pattern Alteration: A Multimethod Approach, Fairchild Publications, New York

Suggested Readings:

1. Kallal, M. J., (1985), Clothing Construction, Macmillan Publishing Company, New York
2. Kindersley D. (1996). The Complete Book of Sewing. London: Dorling Kindersley Limited.
3. MacDonald M. (2009). Principles of Flat Pattern Design (4th Edition). New York: Fairchild Publications Inc
4. Stamper, A.A., S. H. Sharp and L.B. Donnell, (1986), Evaluating Apparel Quality, Fairchild Publications, America

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

**DISCIPLINE SPECIFIC CORE COURSE – DSC-4-ADC:
BASIC PATTERN MAKING AND CLOTHING CONSTRUCTION**

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		
Basic Pattern Making and Clothing Construction	4	2	-	2	Class XII Pass	Nil

Learning Objectives:

1. To introduce students to basic concepts of Body measurements and pattern making
2. To equip the students with the knowledge of pattern layout, fabric cutting, garment sewing and assessing fit in a garment.

Learning Outcomes:

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

1. Take measurements from body and garments accurately.
2. Create patterns of simple women's clothes and apply the pattern information correctly.
3. Operate a sewing machine for simple sewing tasks using the correct thread, needle and stitch length for various fabrics.
4. Use various types of seams and seam techniques during garment construction
5. Apply concept of fit, evaluate garment fit and do pattern alterations as necessary.

SYLLABUS OF DSC-2

Theory:

Unit 1: Body Measurements and Pattern Making

(10 Hours)

- *Unit Description:* This unit introduces the students to the process of taking measurements from body or garment and developing basic blocks for creating garment patterns. It also provides an understanding of the different types of patterns as well as using the symbols and markings mentioned on a pattern correctly.

- *Sub Topics:*
 - Importance of Body measurements, Body Landmarks, Correct procedure of taking body measurements, size charts, Taking measurements from Garments
 - Garment Ease - type and amount in different garments
 - Basic Blocks and their importance
 - Methods of pattern development: Drafting, Flat pattern making, Draping
 - Types of paper pattern - Commercial pattern, Graded pattern, Production pattern
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Unit 2: Sewing Machines

(8 Hours)

- *Unit Description:* This unit provides the essential knowledge required for operating and maintaining a sewing machine for garment construction.
- *Sub Topics:*
 - Classification of Sewing machines
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(12 Hours)

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(20 Hours)

- *Subtopics:*
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(40 Hours)

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