ST.JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

IV SEMESTER **HOMESCIENCE** TIME:4HRS/WEEK

HS 4104 (3) **FABRIC CONSTRUCTION AND APPAREL CARE MARKS:100**

w.e.f. 2020 –2021(“20AH”) **SYLLABUS**

**OBJECTIVES:** To enable the students to  
- Become aware of and appreciate art in dress.  
- Be acquainted with the methods of obtaining design in fabrics.  
- Identify and recognize the types of costumes worn in various parts of India.

**OUTCOMES OF THE COURSE:**On completion of the Course, the student shall

1. Gain information about basic operation of power loom and new technologies to produce garments in industries.

2. Demonstrate an appreciation of traditional costumes and jewelry of India.

3. Gain knowledge of weaves and identify types of weaves.

4. Understand the importance of traditional textiles and its contribution to increase Nation economy.

5. Apply skills in dyes and printing techniques to enhance the beauty of various fabrics

6. Be qualified to launch an entrepreneurial venture in the area of textile printing and dyeing.

**THEORY**

## UNIT- I: FABRIC CONSTRUCTION:

* Weaving**–**Introduction, parts of the loom, Steps in weaving.
* Typesofweaves–BasicandDecorativeweaves.
* ConceptofGrain,fabric count/ Threadcount,balance,selvedge.

## UNIT- II: KNITTING AND NON-WOVEN FABRICS:

* Knitting–Definition, classification(weft and warp)-Types of knitting, Comparison of Knitting with Weaving–Properties of Knits
* Use and Care of Knits.
* Non–woven Fabrics**–**Felting, Bonding, Braiding, Knotting and bonding. Properties of Non-woven fabrics. Applications of non-woven fabrics.

## UNIT-III: FINISHES-CHEMICAL,MECHANICAL AND FUNCTIONAL FINISHES:

* Introduction to finishes –Importance, Kinds of finishing processes, Classification
* Chemicalfinishes.–Bleaching,mercerizing,shrinking,degumming,weighting.
* Mechanicalfinishes–Tentering,Decating,Calendering,Schreinerizing,Moireing,napping,flocking, Crepe and wrinkled effect, beetling and embossing.
* Functional finishes–water repellence, flame proofing, mildew proofing, moth proofing, anti-septic and anti-static finishes.

## UNIT- IV: CLOTHING SELECTION AND WARDROBE PLANNING:

* Factors affecting selection of clothing.
* Clothing selection–Clothing for specific groups–Infants, children and teenagers.
* Selection of common household linen–Towel, table linen and bed sheets.
* Wardrobeplanning–Definition,Importance,Factors and Steps for planning wardrob

## HS 4104 (3) ::2::

## UNIT-V: LAUNDRY EQUIPMENT, DYEING AND PRINTING:

## Machine Laundry – procedure in use of washing machines- precautions, starching, drying and Ironing.

## Dyeing- preparation of material for dyeing-Classification of dyes, Mode of Application for Various fibers and fabrics.

## printing- preparation of material for printing, Traditional and mechanical printing methods- Block, Tie and Dye, Batik, Roller, stencil, Screen, digital, duplex, photo printing .

**REFERENCES:**

1. DeepaliRastogiandSheetal Chopra.(2017). Textile Science” 1st edition, Orient Black Swan Pvt. Ltd.
2. Sushma Gupta, NeeruGarg, Renu Saini (2018). Text book of clothing, textiles and laundry” 8th edition, Kalyani publishers.
3. SeemaSekhri(2017). Text book of Fabric Science – Fundamentals to Finishing, 2nd edition, PHI Learning Pvt. Ltd.
4. Vastala. (2003). Text book of Textiles and Clothing”, 1st edition, Published by ICAR.
5. KanwarVarinder Pal Singh. (2004). Introduction to Textiles, 1st edition, Kalyani Publishers.
6. Dantyagi. S, (1996). Fundamentals of Textiles and Their Care, 5th edition, Orient Longman Limited.
7. Neomia D’ Souza (1998). Fabric Care, 1st edition, New Age International Publishers DurgaDeulkar, (2002), Household Textiles and laundry Work, Atma Ram & Sons, Delhi.

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ST.JOSEPH’S COLLEGE FOR WOMEN (AUTONOMOUS), VISAKHAPATNAM

IV SEMESTER **HOMESCIENCE** TIME:2HRS/WEEK

HS 4154(2) **FABRIC CONSTRUCTION AND APPAREL CARE** MAX.MARKS:50

w.e.f. 2020 –2021(“20AH”) **PRACTICALSYLLABUS**

**OBJECTIVES:** To enable students to  
 - Acquire skills in printing and dyeing techniques.  
 - Gain an understanding of changes that occur in fabric after mercerization.  
 - Make different types of weaving and knitting samples.

**OUTCOMES OF THE COURSE:** On completion of the Course, the student shall  
 1. Identify and make use of various types of weaves and knitting samples.  
 2. Understand the use and care of sewing machine  
 3. Construct different types of seams and seam finishes.  
 4. Design a fabric using different methods of printing like painting, tie and dye.  
 5. Examine the action of mercerization finish on cotton fabric.  
 6. Be skilled to take up a career as a textile designer

**COURSE:**

1. Identification of thread count of various fabrics and preparation of different weaves.
2. Plackets, seams and seam finishes.
3. Samples of different knits.
4. Classify stains and identify the methods of removing stains.
5. Methods of printing –block, stencil, vegetable, fabric painting and dyeing- simple dyeing, tie and dye.

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