

**Savitribai Phule Pune University, Pune**

**Third year B.Sc. (Home Science) Textile and Clothing effect from (2021-2022)**

**Semester V**

Course Code	Course	Teaching scheme Hours/Week			Examination Scheme and Marks					Credit	
		Theory	Tutorial	Practical	CIA	End-Sem	CIA	PR	Total	TH	PR
HS-511	Clothing Construction	03	01	04	30	70	20	30	150	3	1.5
HS-512	Traditional Textiles of India	03	01	04	30	70	20	30	150	3	1.5
HS-513	Textile Chemistry	03	01	04	30	70	20	30	150	3	1.5
HS-514	Fashion Illustration	-	-	08	-	-	50	100	150	-	4.5
HS-515	Personality an Soft Skill Development – I	3	--	--	15	35			50	2	
HS-516	Entrepreneurship Development– I	3	--	--	15	35			50	2	
		15	03	20	120	280	110	120	700	13	9
Total Credits										22	

Semester VI											
Course Code	Course	Teaching scheme Hours/Week			Examination Scheme and Marks					Credit	
		Theory	Tutorial	Practical	Theory		Practical		Total	TH	PR
					CIA	End-Sem	CIA	PR			
HS-611	Textile Design	03	01	04	30	70	20	30	150	3	1.5
HS-612	Retailing and Merchandising	03	01	04	30	70	20	30	150	3	1.5
HS-613	Dyeing and Printing	03	01	04	30	70	20	30	150	3	1.5
HS-614	Pattern Making	-	-	08	-	-	50	100	150	-	4.5
HS-615	Textile Testing – I	3	--	--	15	35			50	2	
HS-616	Internship or Project – I	3	--	--	15	35			50	2	
		15	03	20	120	280	110	120	700	13	9
Total Credits										22	

## Semester V

### HS-511 Clothing Construction (Th)

#### Objectives:

- To understand the importance and necessity of various construction techniques for different fabrics, and to acquire the skills to apply those construction techniques in a sample form
- To acquire knowledge and skill regarding stitching techniques for various garment components such as plackets, pockets, cuffs, collars, and fasteners which are ultimately used for stitching of any garments

Credits-03+1.5

Theory: 4 Lectures/week

Theory: 100 Marks

Practical: 4 Lectures

Practical: 50 Marks

Sr No	Content	No of Lecture Weightage
<b>I</b>	<ul style="list-style-type: none"><li>• Terminology related to clothing construction.</li><li>• Sewing machine its parts and functions.</li><li>• Sewing tools and equipments required for measuring, drafting, cutting and stitching.</li></ul>	8
<b>II</b>	<b>Tools and equipments</b> <ul style="list-style-type: none"><li>• Needles and threads</li><li>• Measuring and drafting tools</li><li>• Cutting tools</li></ul> Pressing Equipment	8
<b>III</b>	<ul style="list-style-type: none"><li>• Tailoring Skills Notch collar-Roll collar</li><li>• Manipulation &amp; Adjustment Concept manipulation/adjustment</li><li>• Fittings Problems of fitting and correction</li></ul>	8
<b>IV</b>	<ul style="list-style-type: none"><li>• Trimmings :<ol style="list-style-type: none"><li>1.Types and uses of -Belts, Bows, Ties, Fringes, Frills, Flounces</li><li>2. Types of -Yokes ,Collars ,Pockets, Cuffs and Sleeves</li></ol></li></ul>	9

	3. Types of Fasteners –Zipper, Buttons, Hooks and loops, Velcro.	
V	<ul style="list-style-type: none"> <li>• 1. Introduction to Seams –Plain ,French, Lapped Flat fell, double channel, Tucks – Pin cord cross shell ,blind</li> <li>• 2. Tucks-Pin ,Cord Shell,Cross</li> <li>• 3. Pleats – Knife, box, inverted , stitch down. ,Gathers – Machine ,and hand.</li> </ul>	12

### Practical

1. Designing of garments for women using different construction features: Stitching of small sample of Collar:-, round collar, flat collar, stand collar, shawl collar,
2. Stitching of small sample of Sleeves:- short sleeve, mega sleeve and puff sleeve, 8 Bell sleeve, leg mutton sleeve and full narrow sleeve
3. Designing of garments for women using different construction features: Stitching of small sample of Neckline :-such as round shape , square shape , V, shape and U shape neckline , Pot shape , boat shape, star shape , leaf shape glass shape
4. Designing & making sample of hand bags
5. Drafting, cutting and stitching Short one piece.
6. Drafting, cutting and stitching of Baby Frock.

### REFERENCE BOOKS:

1. Aswani K.T. Fancy Weaving Mechanism, Mahajan Books, Ahmedabad.
2. Deulkar Durga - Household Textile and laundry work, Atmaram and sons, Delhi.
3. Dongorkemy Kamala S.- The Romance of Indian Embroidery, Thakur and Co. Bombay.
4. Dorothy Siegart, Lyle - Modern Textiles, John Wiley and Sons. Inc New York.
5. Nisbet H. - Grammer of Textile Design, Taraporwala and Sons, Bombay
6. Pandit Savitri - Indian Embroidery, its variegated charms.
7. Complete Guide to Sewing-Readers Digest, The reader's digest association, 1976
8. Complete Book of Sewing, Alison Smith Dorling Kindersley, 1999
9. Singer Sewing Book, Gladys Cunningham, The Singer Company

**Sem.- V**  
**HS-512- Traditional Textiles of India**

**Objectives**

**This course will enable students to:**

- 1. To impart knowledge on various traditional embroideries of India.**
- 2. To gain practical knowledge on different embroideries of India.**
- 3. To understand the various century's costumes and historic textiles in India.**
- 4. To have concepts on colour, motif and specialization in different state costumes of India.**
- 5. To enhance the students knowledge regarding accessories and jewellery of different Eras.**

Credits-03+1.5

Theory - 4lec./week  
Practical -4lec/week

Marks -100  
Marks -50

<b>Sr No</b>	<b>Content</b>	<b>No of Lecture Weightage</b>
<b>Unit I</b>	Traditional woven textiles of India. History of woven textiles: Dacca muslin , Brocades, Calico Printing	8
<b>Unit II</b>	Traditional sarees of India Jamdani, Baluchari, Pochampalli, Patola and Ikat, Kanjivaram, Chanderi, Maheshwari, Bomkai, Sambhalpuri, Vichitrapuri, Paithani, Kota Doria, Gadwal, Irkal, Venkatagiri, Narayanpet, Kasavu, Tanchoi and Brocade Sarees	8
<b>Unit III</b>	Traditional woven and embroidered shawls of India: Embroidery Shawls of Kashmir, Himachal Pradesh ,Gujarat, and Punjab	5
	Printed and painted textiles, Printed textiles Block printed textiles: Dabuprinting, Bagruprinting, Sanganeriprinting, Bagh printing Tie and dyed textiles of Rajasthan and Gujarat	8
<b>Unit IV</b>	Painted textiles: Kalamkari painting and Madhubani painting, Warli painting and printing, Patchitra painting, Phad painting and Pichhavai	8
<b>Unit V</b>	Traditional Embroideries of different states of India: Kashida of Kashmir and Chamba Rumal,Chikankari and Zari work of Uttar Pradesh,Embroideries of Gujarat and Kantha of Bengal,Manipuri Embroidery and Kasuti of Karnataka,Rabari embroidery of Bihar and Pipli embroidery of Orissa	8

<b>Unit VI</b>	Traditional costumes of different States of India: Kashmir, Rajasthan , Gujarat, Punjab, Himachal Pradesh, Assam, Andhra Pradesh, Maharashtra	8
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## Practicals

- 1. Documentation of motifs of traditional Indian embroideries**
- Collection of traditional motif of embroidery that identification of different state of India, Kashmir, Himachal Pradesh ,Gujarat, and Punjab, Lukhnow, Rajasthan, Karnataka
- 3. Preparation of samples of above** 1.Making samples of traditional embroideries of – Kashida of Kashmir – Appliqué work of Bihar or Orrisa – Kantha of Bengal – Kasuti of Karnataka – Kutch and Kathiawar of embroideries Gujrath – Zari embroidery – Phulkari of Punjab – Chamba of Himachal pradesh – Chikankari of Lucknow - Manipuri.
- Prepare a sample of - Smocking - Honeycomb - Tatting - Crochet – Knitting
4. Documentation of woven textiles of India. Collection of pictures of traditional fabrics Jamdani, Baluchari, Pochampalli, Patola and Ikat
- Collection of pictures of Kanjivaram, Chanderi, Maheshwari, Bomkai, Sambhalpuri, Vichitrapuri, Paithani, Kota Doria, Gadwal, Irkal, Venkatagiri, Narayanpet, Kasavu, Tanchoi and Brocade Sarees
- Preparation of big sample of dress ( Ghagra ,blouse and dupatta of traditional embroidery

## References

### Text Books

- 1.Durga Deulkar 1983. Household Textiles and Laundry work ,Published by Atma Ram & Sons Delhi Lucknow
- 2.Manly Banister 1976 Wood Block Cutting & Printing , publishing co. New York
- Jane Simpson ,1977. ‘The Colour book of Embroidery’ published Mandarin ,Hong Kong
- 4 Hamlyn House’1972’ Golden Hands’ The Complete Knitting, dress making and needlecraft guide published by Marshall Cavendish Publication Ltd Singapore

### References Books

- Manmeet Sodhia , 2004 History of Fashion Chapter ,
- 18’Traditional Costume of India and Chapterno 19Traditional Textiles of India and Indian Embroidery, book published ,Kalyani publishers ,Ludhiana- NewDelhi-Noida (U.P)2004
- Bhatnagar, P. 2005. Decorative Design History in Indian Textiles and Costumes. Chandigarh, Abhishek
- Chattopadhyay, K. 1977. Indian Embroidery. New Delhi, Wiley Eastern Limited
- Harney, J. 1997. Traditional Textiles of Central Asia. London.Thomesand Hudson Ltd.
- Krishna, R A. 1966. Banaras Brocades. New Delhi. Crafts museum.
- Lubell, C. 1976. Textile Collection of the World. Vol. 2. London. United States publication.
- Mehta, R J. 1970. Master Piece of Indian Textiles. D. B. Taraporevale Sons and Co. Private Ltd.

9. .Treasure of Indian Textiles. 1980. Calico Museum. Ahmedabad.Marg Publication Bombay

**e-Books**

1.[www.academia.edu/traditional-indian-costume-textil](http://www.academia.edu/traditional-indian-costume-textil)

## Semester V

### HS-513-Textile Chemistry (Th)

#### Objectives :-

To enable students –

1. To impart knowledge of textile and garment wet processing.
2. To introduce students to various chemicals, dyes and auxiliaries used for chemical processing.

Credits -03+1.5

Theory: 4 Lectures/week

Practical: 4 Lectures

Theory: 100 Marks

Practical: 50 Marks

Unit	Content	No of Lectures
Unit 1	<b>Preparatory processes for dyeing &amp; printing</b> <ul style="list-style-type: none"><li>• Singeing</li><li>• Desizing</li><li>• Scouring</li><li>• Bleaching</li><li>• Mercerization</li></ul>	5
Unit 2	<b>Mechanical finishes</b> <ul style="list-style-type: none"><li>• Embossing</li><li>• Tendering</li><li>Calendaring</li><li>• Brushing</li><li>• Napping</li></ul>	8
Unit 3	<b>Special Finishing</b> Waterproof Fireproof Antimicrobial	8
Unit 4	<b>Classification and introduction to laundry process</b> Wet and dry cleaning Materials and equipments	12
Unit 5	<b>Water, soaps and detergents</b> Hard and soft water Methods of softening water	12

#### Practical-

- Desizing of cotton fabric
- Scouring of cotton fabric
- Bleaching of gray fabric with hydrogen peroxide
- Finishing of cotton fabric with stiffener
- Visit to processing unit

#### References

1. Dr. Shenai V.A. – Introduction to Chemistry of dyestuff, Sevak Publications, Mumbai
2. Dr. Shenai V.A. – Technology of bleaching & Mercerization , Sevak Publications, Mumbai
3. Marsh J.T.- Introductory textile finishes, Chapman & Hall ltd. London
4. Prayag R.S. – Bleaching Mercerizing & dyeing of cotton fibers, Court press, Salem, Dharwad.

## Semester V

### HS514-Fashion Illustration (Pr)

#### Objectives

This course will enable students to:

1. To enable students to gain knowledge of design, textile design and fashion.
2. To understand the fashion design concepts and process.
3. To provide opportunity for skill development in designing accessories.
4. To impart knowledge on fashion accessories and creativity.

CREDITS- 4.5

Practical -8lec/week

Practical marks-150

Unit	Content
Unit 1	Basic human proportions, Anatomy and model drawing 8, 10, 12 head theory, Straight, flesh, motion posture. Body figures and features – Hair styling, eye, face, arm, legs. (4, each) Figure Drawing – body movements (kids, female and male), leg and hand movements, face drawing and detailing.
Unit 2	Garment details – collars, cuffs, sleeves, yokes, necklines, pockets (3 each) Style manipulation Illustrations of skirt, trouser, gowns, frocks, shirt, jackets.
Unit 3	Sketching- folds and curves of different fabric drapes. Different action poses and composition. Silhouettes
Unit 4	Rendering Techniques - Pencil, Steadler and Color Pencil, Charcoal. Fabric

	<p>Rendering 10 Samples of Different Varieties of Fabric.</p> <p>Drawing a fully fledged fashion figure with all the parts of the body, front view, back</p>
<b>Unit 5</b>	<p>Accessories –</p> <p>Hand bag – any three types Hat – any two types</p> <p>Bow – Decorative bow and formal bow Belt – for boy and girl</p> <p>Foot wear – any three types Jewellery designing – Teracotta, Quilling jewellery, Antique jewellery, Kundan Jewellery – necklace, ear ring, chain, studs, bangles, anklets and finger rings.</p> <p>Purse and pouches – any two types</p> <p>Textural Effects</p>
<b>Unit 6</b>	<p>Sketching styles for different age group</p>

#### References:

1. “Quick style”, by- Christine Kunzerlman.
2. 1000 Ideas by fashion designers Carolina Cerime
3. 150 Beaded & motifs Kenneth D King
4. 21st Century Jewellery Mrthe Le Van
5. Accessories options : Shrugs scaxues stoles
6. Bead Fantasies 2 – More beautiful easy to make jeweler Takako Sanejima
7. Child encyclopedia of fashion accessories -Phyllis Tortora
8. Complete jewelery easy techniques and 25 great projects Mary Helt
9. Necklace the art of collectibles pendants crosses Sautoirs cameos Soraya Feder
10. Accessories options : Shrugs scaxues stoles
11. “Know your Fashion Accessories” by – Celia Stall-meadows, Fair child publication.
12. “ Master piece of Indian Jewellery”, by Jamila Brij Bhusan. Taraporevala- Bombay
13. Fashion Designing, Sumathi G.J, New Age International Pvt. Ltd. Chennai.
14. Understanding Fashion, Elizabeth Rouse, BSP Professional Books, L

**Semester- V**  
**Skills Enhancement**

**HS-515: Personality and Soft skill Development**

**Objective-**

- 1) To develop all round personalities with a mature outlook to function effectively in different circumstances
- 2) To develop effective communication ( spoken and written)and presentation Skills.
- 3) To develop self effectiveness by mastering interpersonal skills and leadership skills.
- 4) To get acquainted with need competencies, skills and motivation of self empowerment.

**CREDITS 02**

Marks-50

Theory  
3lec./week

<b>Unit I</b>	<p><b>Personality</b> – Meaning of Personality, The personality pattern, individuality, persistence in personality, change in personality, some important personality determinants, level of adjustment, Hazards in personality development.</p> <p><b>Introduction to soft skills</b>What are soft skill,Importance Attributes,Top soft skillsPracticing soft skills</p> <p><b>Etiquette &amp; Manners</b> Introduction to manners and etiquettes Classification of etiquettes Benefits of etiquettes Poor manners of etiquettes special manners &amp; etiquettes, - accompanying woman/men, taboo topics, driving, flight mobile office professional &amp; various occasional manners &amp; etiquettes</p>	08
<b>Unit II</b>	<p><b>Communication Skills</b></p> <p>Types of communication, verbal skills &amp; non verbal skills</p> <p>Speaking skills, formal &amp; informal communication, barriers of communication, effective communication, public speaking, overcoming fear of public speaking</p>	08

	Non verbal (body) communication – forms of body parts of body language uses of body language, improving body language. Writing skills, importance of effective writing creative writing , drawbacks of written communication	
<b>Unit III</b>	<b>C V writing</b> Introduction and meaning, Difference among bio data, CV & resume, purpose types,tips, design, content and cover letter. <b>Interview skills</b> Introduction & meaning Types of interview Basic tips, dos and don'ts, before during & after theinterview How to present well in interview Typical questions asked	08
<b>Unit IV</b>	<b>Team work and team building</b> Aspects, skills for team building, Team vs. Group Characters of effective team Role of team leader and team members Difficulties in team building and team work <b>Time management Time management</b> Introduction Features of time 80.20 rules Time management matrix Difficulties in the management Time wasters Time savers Realizing the value of time Importance of time management	06

## References

1. Personality Development. Hurlock, E.B. Tata Mc GrawHill, New Delhi.
- 2.Fundamentals of modern psychology. Banerjee J.C., Allied Publishers Pvt.Ltd., Calcutta
- 3.Motivation and Personality. Maslow, A.H. Pearson Education India.
- 4.Dr. K. Alex, 2011, Revised edition, soft skills - S. Chand Publication, ISBN – 81 – 219 –3192 – 4
5. Essentials of business communication, Rajendra Pal, J.S.Korlanhalli, S. Chand & Sons,New Delhi.

6. Effective Bussiness communication, Asha Kaul, Prentice, Hall of India, Pvt. Ltd, NewDelhi.
- 7.Effective Teamwork, Michael A. West, BPS Blackwell.
8. Principles of management, P.C. Pripath, P.N. Reddy, the McGraw Hill.
- 9.How to write better letters, S.K.Tarafder, A.P.H. publishing corporations.
10. Professional presentations, Malcolm Goodale, Cambridge University press.
- 11.The motivation manual,Gisela Hagemann, multi-tech publishing co.
- 12.Basic Managerial skills for all, E.H.MaGrath, S.J. Prentice, Hall of India, Pvt. Ltd, NewDelhi.

## SE-HS-516- Entrepreneurship Management(Th)

### Objectives:

To enable the students to:

- 1) To understand the nature of entrepreneurial activities.
- 1) To make aware about self employment
- 2) To asses their Strength and weaknesses as entrepreneurs and identify how to strengthen their skills.

Credits-02

Theory: 3 Lectures/week

Theory: 50 Marks

Units	Content	Lectures
Unit I	<b>Entrepreneurship –</b> Definition, Scope Characteristics, factors affecting entrepreneur development, Entrepreneur Vs Intrapreneur, classification of entrepreneur, Role of entrepreneur in economic development.	08
Unit II	<b>Women entrepreneurs –</b> Definition, status in India, steps taken for the promotion of entrepreneurs, problems faced by women entrepreneurs.	08
Unit III	EDP–Definition, steps, agencies conducting EDP, agencies for entrepreneurial support – KITCO, SIDCO, KVIC, DIG, STED, SIDO, NSIC, TCO, SISI, SIDBI, WDC (Women Development Corporation)	08
Unit IV	Project – definition, types, steps, project life cycle, project appraisal, project report preparation,SWAC Analysis.	08

### References :

1. Prescott, A and Proctor, B.B. (1987), Food Technology, Mc Graw Hill Book Co. , New York.
2. Potter, N.W. and Hotchkiss, J.H (1996), Food science 5th edition, C.B.S. Publishers and Distributors, New Delhi.
3. Desai, N. (1996).Entrepreneurial development – Principles, Programmes, Policies ( Vol I), Formulation Appraisal and Financing (Vol II) and Programmes and Performance (Vol III), Himalaya Publishing House, Bombay.
4. Winze, M.D. (1987). Women Entrepreneurs in India, Mital publications, New Delhi, .
5. Jayan, Entrepreneurship Development Jose Paul, N. Ajit Kumar, Entrepreneurship Development and Management, Himalaya Publishing.
6. Khanka S. S. Chand and Co. Ram Nagar, New Delhi, Entrepreneurship Development
7. M. Gangadhara Rao, “Entrepreneurship and Entrepreneurial development, KanishkaPublishing House, New Delhi – (1992).
8. Vasant Desai – Entrepreneurship Development, Himalaya Publishing House (1991)

9. Sami Uddin – Entrepreneurship Development in India, Mittal Publication, New Delhi

**Semester-VI**

**HS-611 Textile Design (Th)**

**Objectives:**

1. Familiarize themselves with the different repeats according to the methods of printing.
2. Understand about the modification of colour.
3. Develop awareness to use effective colour combinations using different mediums.
4. Use various textures and themes in creating designs.

Credits-03+1.5

Theory: 4 Lectures/week

Theory: 100 Marks

Practical: 4 Lectures

Practical: 50 Marks

<b>Units</b>	<b>Content</b>	<b>No of Lectures</b>
<b>Unit 1</b>	A. Introduction to different fabric manufacturing techniques: B. History and development of the looms C. Parts of Loom and Weaving Operation D. Principles and functions of primary and secondary motions • E. Design, drafts and pegplan	9
<b>Unit 2</b>	<b>Weaving</b> Introduction to weaving <ul style="list-style-type: none"><li>• Types of weaves-Elementary weaves and their derivative.Plain weave and its derivatives:Hopsack,basketweaveetc.</li><li>• Twill weave and its derivatives such as broken twill waved diapers, herringbone twill weave.</li><li>• Satin and sateen :Regularand irregular.</li><li>• Fancy decorative weaves – dobby, jacquard, pile, leno, surface, figure- lappet and double weave.</li></ul>	12
<b>Unit 3</b>	<ul style="list-style-type: none"><li>• Introduction to knitting- Types of knitting,advantages and disadvantages of knitting</li></ul>	8
<b>Unit 4</b>	Non wovens: Blanded fabric, Felt-types and manufacturing process and their uses.	8

<b>Unit 5</b>	Others methods of fabric constructions-netting, lace making, braiding	8
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Practical-

- Creating motif designs and patterns for different placements and usages.
- Weaving on sample learn – Plain, rib, matt, and twill,satin,sateen.
- Fancy weaves-Dobby,Jacquard,Diamond,Lappet,Pile Weave.
- Fabric Analysis – Design repeat, draft, peg plan and other details.
- Hand Knitting-weft,warp

## References

- 1) Grosicky, Z.J. (1980) : Watson's textile design and colour, London Newness Butterworths.
- 2) Oelsner, G.H. : A handbook of weaves, New York Over publication Inc.
- 3) Robinson and Mark (1973) : Woven cloth construction, London Butterworth and Co. (Publishers) Ltd.
- 4) Znamieroushi, N. (1967) : Step by step weaving, New York Western Publishing Co. Inc.
- 5) Plath Iona (1972) : The craft of handweaving, New York Western Publishing Co Ltd.
- 6) Murray Rosemary (1981) : The Essential Handbook weaving, London Bell and Hyman Ltd.
- 7) Kulkarni M.M. (1998) : Weaving technology, Vrinda Publication, Jalgaon.

## HS-612- RETAILING & MERCHANDISING

### Objectives:

#### This course will enable students to:

1. To develop and deliver effective presentations, conduct and participate in meetings and use the specific tactics to improve negotiation skills.
2. To impart knowledge of merchandising in fashion industry in understanding Production activities and Productivity involved in a garment unit.
3. To impart merchandising skills and merchandising knowledge in the field of apparel and textile.
4. It helps in merchandising, terminologies, concept and application of merchandising, types of merchandisers.

### CREDITS 03+1.5

Theory - 4lec./week

Practical -4lec/week

Theory Marks -100

Practical marks-50

Units	Topics	No of Lectures
<b>Unit I</b>	Retailing and merchandizing- Terminology used Concepts and principles of retailing and merchandizing Factors affecting merchandizing Role and responsibilities of merchandiser. Retailing classification	<b>12</b>
<b>Unit II</b>	Sale promotions Sale promotion techniques and promotion Promotion mix. Advertising and its types Display-types, elements of display, principles of display. Display Sale promotions and promotion mix.	<b>12</b>
<b>Unit III</b>	Visual merchandizing Public relations	<b>12</b>
<b>Unit IV</b>	Marketing research types, major chain stores Steps in marketing research Role of marketing research in product planning Channels of distribution	<b>09</b>

**Practical:**

1. How to study garment.
2. Consumption
3. Preparation of Excel sheet
4. Marketing-Presentation
5. Display of garments
6. Work in retail shop
7. Industry visit
8. Project

### **Suggested Readings**

#### **Text Books**

1. Pradhan, S. 2009. Retailing management. 3rd ed. New Delhi. Tata McGraw-Hill Publishing Company Ltd.
2. Cooklin, G. 1991. Introduction to clothing manufacture. London. Blackwell Science Ltd.

#### **Reference Books**

1. Cooklin, G. 1991. Introduction to clothing manufacture. London. Blackwell Science Ltd.
2. Easey, M. 1995. Fashion marketing. Oxford (U.K.) Wiley-Blackwell.
3. Kotler, P. and Keller, K.L. 2006. Marketing management. 12th ed. New Delhi. Prentice Hall of India Pvt. Ltd.
4. Nickles, W.G. 1982. Marketing principles. II ed. New Jersey. Prentice Hall Inc. Eaglewood Cliffs.
5. Phillips, C.F and Duncan, D.J. 1956. Marketing principles and methods. II ed. U.S.A. Richard D. Irwin Inc.
6. Pradhan, S. 2009. Retailing management. 3rd ed. New Delhi. Tata McGraw-Hill Publishing Company Ltd.
7. Ramaswamy, V.S. and Namakumari, S. 2004. Marketing management- Planning, Implementation and Control. 4th ed. New Delhi. Mcmillan India Pvt. Ltd.
8. Easey, M. 1995. Fashion marketing. Oxford (U.K.) Wiley-Blackwell

#### **e-Books**

1. [www.textilelearner.blogspot.com](http://www.textilelearner.blogspot.com)

**Semester- VI**  
**HS-613-Dyeing & Printing(Th)**

**Objectives**

**This course will enable students to:**

1. To impart the knowledge of textile coloring and various printing methods to the students.
2. To bring an awareness on the industrial techniques of dyeing and printing.

**Credits-3+1.5**

Theory - 4lec./week  
Practical - 4lec/week

Marks -100  
Marks-50

<b>UNIT</b>	<b>Content</b>	<b>No of Lecture</b>
<b>Unit I</b>	A. Introduction to dyes and pigments. B. Types of Dyes and their application on various fabrics. • C. Auxiliaries & their role in dyeing and printing.	12
<b>Unit II</b>	Dyes : Classification, Natural and synthetic different types of dyes – direct, acid, basic, reactive, sulphur, vat, azo and natural dyes (vegetable, animal, mineral and mordents used) .	12
<b>Unit III</b>	Methods of dyeing: fiber, stock, yarn, piece and union and cross dyeing ,garment dyeing Solution dyeing, skein and package dyeing • Common dyeing defects Food packaging laws	12
<b>Unit IV</b>	1. Dyeing vs. Printing 2. Styles of printing – Direct, Resist, Discharge 3. Methods of printing – Block, stencil, Roller, Screen, Rotary screen, Heat Transfer 4. Digital, Flock • 5. Common printing defects and their remedy	09

Practical:-

1. Preparation and outlining of fabric for tie-dye
2. Tying of cotton fabric for tie-dye
3. Dyeing of tied fabric
4. Preparation of fabric and designing for Batik
5. Fabric dyeing with naphthol dye
6. Printing of cotton fabric with block printing
7. Printing of cotton fabric using Stencil

### **References**

- 1) Cockett, B. R. (1964) : Dyeing and printing, London, Sir Issac Pitman and sons Ltd.
- 2) Gohl and Vilensky (1987) : Textile science, Delhi, BCS Publishers and Distributors.
- 3) Grossicki, Watson's (1975) : Textile design and colour, Butterworth and company.
- 4) Pandit Savitri and Patel Saroj (1970) : Tie and dye and Batik techniques for all, Baroda, Faculty of Home Science.
- 5) Shenai V. A. (1973) : Chemistry of Dyes and principles of Dyeing, Ahmedabad, Textile Book Sellers and publishers.

- 6) Shenai V. A. (1977) : Technology of Dyeing, Technology of Textile processing. Vol. VI. Bombay Sevak Publication.
- 7) Story Joyce (1974) : The Thames and Hudson, Manual of Textile Printing, London, Thames and Hudson Ltd.
- 8) Story Joyce (1979) : Manual of dyes and fabrics, London, Thames and Hudson Ltd.
- 9) Rutt-Anna Hond (1969) : Home furnishing, New Delhi, Willey Eastern Pvt. Ltd.
- 10) Clarke, W. (1977) : Dyeing and printing, London Sir Isaac Pitman and Sons Ltd.
- 11) History of Indian Textiles, Ahmedabad, Calico Museum of Textiles
- 12) Andrea Mcnamara, Patrik Snelling (1995) : Design and practice for printed textiles, Australia, Oxford University Press.
- 13) S. N. Guha Ray : (1965) : 5000 Indian designs and motifs, Indian Institute of art and industry.
- 14) Peter Phillips, Gillian Bunce (1993) : Repeat patterns – A manual for designers, artists and architects, London, Themes and Hudson Ltd.
- 15) Dr. C.V.Caushik, Chemical Processing of Textiles, Ncute publishers.
- 16) M.L. Gulrajani, Silk dyeing printing & finishing, IIT, Delhi.

## HS-614-Pattern Making (Pr)

### Objectives:

This course will enable students to:

1. Draft standard size paper patterns.
2. Select fabric for various fashion garments.
3. Apply appropriate garment construction techniques in apparel making.
4. Adapt the basic bodice block for creating variations in garments.

Practical -8lec/week

Marks -150

Units	Topics
Unit 1	<b>Body Measurements</b> Methods of taking body measurements for different garments
Unit2	<b>Construction Skill</b> Types of facing Zip application Elastic insertion • Waist band application
Unit3	<b>Advance Construction Skill</b> Seams,Tucks,Pleats Buttonhole, button hooks, eye and tuch button
Unit4	<b>A. Introduction to Pattern Making Principals</b> i. Dart Manipulation ii. Added fullness <b>B. Preparation of Basic Block For Childern</b> i. Bodice Block ii. Sleeve Block iii. Skirt Block <b>C. Creating Designs through dart manipulation</b> i. Slash and Spread Method ii. Pivot Method

<b>Unit5</b>	<b>Development of pattern for collars</b> Ruffle collar, polo collar  <b>Development of pattern for various neck lines</b>
<b>Unit 6</b>	<b>Drafting, cutting and stitching of following garments</b> Salwar, Churidar, plazzo & kurta.

## References

- 1) Booth J.E. (1968) : Principles of textile testing, Butterworth Heinemann Ltd. U.K. or CBS publishers and distributors, New Delhi.
- 2) Grower and Hanby (1969) : Handbook of textile testing and quality control
- 3) Indian Standards Institute (1982) : Handbook of textile testing
- 4) Shinkle John H : Textile testing chemical publishing Co. Inc., Brooklyn, New York.  
ASTM Standards
- 5) Wynne Andrea (1997) : Textiles, the motivate series Macmillan Texts for industrial, vocational and technical education, Macmillan Education, Ltd., London.

## HS-615-Skill Enhancement

### Textile Testing

#### Objectives:

#### This course will enable students to:

1. To impart the knowledge of Testing of fiber, Yarn and Fabric to the students.
2. Enables to know about different Textile Testing Instruments and Machines as well as their working principles.
3. Helps in determining the Quality parameters and Testing conditions required in a Textile testing Lab.

Theory -3lec./week

Marks -50

Units	Contents	No of Lectures
Unit 1	<b>Textile testing</b>  <b>Introduction to textile testing</b> <ul style="list-style-type: none"><li>• Importance of textile testing</li><li>• Definition related to textile testing</li><li>• Sampling</li></ul> <b>Fiber Testing</b> <ul style="list-style-type: none"><li>• Fiber dimensions and their measurement</li><li>• Measurement of length, staple length, effective length</li></ul>	10
Unit2	<b>Yarn Testing</b> <ul style="list-style-type: none"><li>• Yarn characteristics and their measurement</li><li>• Twist, crimp, strength</li><li>• Yarn numbering systems – tex, denier, count</li></ul>	08

<b>Unit3</b>	<b>Fabric Testing</b> <ul style="list-style-type: none"> <li>• Fabric count</li> <li>• Fabric thickness and fabric weight</li> <li>• Bow and skewness, dimensional stability</li> <li>• Tensile strength and tear strength</li> <li>• Color fastness of fabric</li> <li>• Air permeability</li> <li>• Fabric stiffness</li> <li>• Per cent moisture content and moisture regain</li> <li>• Introduction to Drapeability and Abrasion resistance</li> </ul>	<b>12</b>

## References

- 1) Booth J.E. (1968) : Principles of textile testing, Butterworth Heinemann Ltd. U.K. or CBS publishers and distributors, New Delhi.
- 2) Grower and Hanby (1969) : Handbook of textile testing and quality control
- 3) Indian Standards Institute (1982) : Handbook of textile testing
- 4) Shinkle John H : Textile testing chemical publishing Co. Inc., Brooklyn, New York.

### ASTM Standards

- 5) Wynne Andrea (1997) : Textiles, the motivate series Macmillan Texts for industrial, vocational and technical education, Macmillan Education, Ltd.,London.

## HS-616- Skill Enhancement

### INTERNSHIP

#### Objectives:

#### This course will enable students to:-

1. Develop skills as per requirement of the agencies/institutions.
2. Develop abilities to perform the given tasks and confidence to deal with people effectively.
3. Acquire hands-on experience in working in thrust areas.

**Credits-02**

**Theory: 50 Marks**

#### Guidelines:

- Duration: 6 weeks.
  - Areas of placements : Textile Industry, Embroidery Unit, Production Unit.
- or**

### PROJECT

#### Objectives:

#### This will enable students to:

1. Develop research skills.
2. Develop reviewing, report writing and presentation skills

**Credits-02**

**Theory: 50 Marks**

#### Guidelines:

The department will assign suitable topics for project works in areas of

1) Market research, Current Trends In Fashion.

2) Textile Industry: Development in Textiles

The students may work individually or in groups-Report writing, Report presentation