PERIYAR UNIVERSITY PERIYAR PALKALAI NAGAR<br>SALEM-636011

# DEGREE OF BACHELOR OF SCIENCE CHOICE BASED CREDIT SYSTEM 



Syllabus for

## B.Sc. FASHION TECHNOLOGY

(SEMESTER PATTERN)
(For Candidates admitted in the College Affiliated to Periyar University From 2021-2024 onwards)

## REGULATIONS

## I. ELIGIBILITY

II. Candidates seeking admission to the first year degree of Bachelor of Science in Fashion Technology shall be required to have passed in any Higher Secondary Course examination (Regular academic or Vocational) of the state board/CBSE/ICSE or other examination accepted as equivalent thereto by the syndicate, subject to such other conditions as may be prescribed. Pass in any three year Diploma in Fashion/Costume/Textile/Apparel related course is eligible to admit in direct second year of this UG course.

## III. DURATION

The course for the degree of Bachelor of Science Fashion Technology shall extend over a period of three academic years - 6 Semesters and each semester normally consisting of 90 working days or 450 Hours.

## IV. ELIGIBILITY FOR THE DEGREE

A candidate shall be eligible for the degree of Bachelor of Science Fashion Technology, if he/she has satisfactorily undergone the prescribed courses of the study for a period not less than 6 semesters in an institution approved by the university has passed the prescribed examinations in all the 6 Semesters.
V. SUBJECT OF STUDY

The subjects of the study for the B.Sc., Fashion Technology and the syllabus for the subjects are given in the annexure.

## VI. REQUIREMENT OF EXAMINATION

The theory examinations will be conducted for 3 hours by the university in the subjects prescribed for all the semesters in every semester.

The practical examinations will be conducted by the university for 3 hours with respective to allied and core practical's in all the subjects prescribed in every semester.

## VII. SCHEME OF THE EXAMINATION

The scheme of examinations for the course is given in Annexure. All the practical examinations /Internship work shall be conducted \& evaluated internally by the institution themselves with internal and external examiners appointed by the university.

| Program Specific Objectives (PSOs) |  |
| :--- | :--- |
| B.Sc. ( Fashion Technology) |  |
| PSO-1 | Gain the knowledge of fashion technology course through theory and practical <br> oriented courses. |
| PSO-2 | Understand good laboratory practices in garment designing and construction. |
| PSO-3 | Understand the impact of the professional designing solutions in societal and <br> environmental contexts, and demonstrate the knowledge of, and need for sustainable <br> development. |
| PSO-4 | Make aware of to handle the sophisticated instruments/equipment's at industry level |
| PSO-5 | Function effectively as an individual, and as a member or leader in diverse teams, <br> and in multidisciplinary field and to become a significant provider of employment <br> and self-employment opportunities. |
| PSO-6 | Develop research oriented skills and thereby build a strong foundation for higher <br> studies. |

## Program Objectives (POs)

B.Sc. ( Fashion Technology)

| PO-1 | Inculcate the students at first to the fundamentals governing the aesthetic and design <br> elements required for a fashion technology graduate along with the fundamentals of <br> management aimed at sufficient skill levels required in the apparel manufacturing <br> industry. |
| :--- | :--- |
| PO-2 | To introduce different essential streams including apparel manufacturing technology, <br> information technology, quality management, etc. |
| PO-3 | Impart extensive knowledge of raw materials including fabrics and trims in the formative <br> years to enable the students to relate their understanding with apparel manufacturing. |
| PO - 4 | To build upon the integration of creative forces of design with fashion technology, and also <br> keeps in mind the historical, social and cultural contexts in which the designers work today |
| PO -5 | The culmination of the Programme leads the student researching, experimenting and <br> implementing the skills by way of a graduation project. |
| PO-6 | Mold the students to be qualified to position themselves for diverse work profiles available <br> in the apparel manufacturing sector. |


| $\sum_{I}$ | $\stackrel{k}{a}$ | PAPER CODE | COURSE CODE | COURSE | HRS |  |  | MARKS |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | L | T/P |  | CIA | EA | TOTAL |
| I | I |  | Language | Tamil-I | 4 | 2 | 5 | 25 | 75 | 100 |
|  | II |  | Language | English- I Communicative English | 4 | 2 | 5 | 25 | 75 | 100 |
|  | III |  | Core-I | Pattern Making \& Grading | 3 | 2 | 4 | 25 | 75 | 100 |
|  |  |  | Allied Practical-I | Basics of Apparel Designing Practical | - | 3 | 2 | 40 | 60 | 100 |
|  |  |  | Allied Practical-II | Fashion Illustration \& Sketching Practical | - | 4 | 2 | 40 | 60 | 100 |
|  | IV |  | Value Education | Yoga | 1 | 1 | 2 | 25 | 75 | 100 |
|  |  |  | Add-on Course | Professional English-I | 4 | - | 4 | 25 | 75 | 100 |
|  |  |  |  |  |  | 30 | 24 |  |  | 700 |
| II | I |  | Language | Tamil-II | 4 | 2 | 5 | 25 | 75 | 100 |
|  | II |  | Language | English-II Communicative English | 4 | 2 | 5 | 25 | 75 | 100 |
|  | III |  | Core -II | Fashion Design Concepts \& Methodology | 2 | 2 | 3 | 25 | 75 | 100 |
|  |  |  | Core-III | Fibre \& Yarn Science | 4 | 2 | 4 | 25 | 75 | 100 |
|  |  |  | Core <br> Practical-I | Fashion Design Concepts \& Methodology Practical | - | 3 | 2 | 40 | 60 | 100 |
|  | IV |  | EVS | Environmental Studies | 1 | - | 1 | 25 | 75 | 100 |
|  |  |  | Add-on Course | Professional English-II | 4 | - | 4 | 25 | 75 | 100 |
|  |  |  |  |  |  | 30 | 24 |  |  | 700 |
| III | III |  | Core-IV | Fabrics Science | 3 | 2 | 4 | 25 | 75 | 100 |
|  |  |  | Allied-I | Historic Costumes of India | 4 | 1 | 5 | 25 | 75 | 100 |
|  |  |  | Allied-II | Fashion Clothing Psychology | 3 | 2 | 4 | 25 | 75 | 100 |
|  |  |  | Core <br> Practical-II | Children's Apparel Practical | - | 4 | 2 | 40 | 60 | 100 |
|  |  |  | Core <br> Practical-III | Fibre to Fabric Science Practical | - | 5 | 3 | 40 | 60 | 100 |
|  |  |  | SBEC <br> Practical-I | E-Designing Practical | 2 | 2 | 3 | 40 | 60 | 100 |
|  | IV |  | NMEC-I | Fundamentals of Textile | 2 | - | 2 | 25 | 75 | 100 |
|  |  |  |  |  |  | 30 | 23 |  |  | 700 |



## SBEC- Skill Based Elective Courses

## NMEC - Non-Major Elective Courses

## MBEC - Major Based Elective Courses

## VIII. PASSING RULES Theory

- $75 \%$ of the marks for external evaluation and $25 \%$ marks are allotted for internal evaluation.
- Candidate is demand to have passed to a subject, if he/she get a minimum of $40 \%$ of total marks in theory subjects with internal mark of 10 marks and external marks of 30 marks.


## Practical

- $60 \%$ of the marks for external evaluation and $40 \%$ marks are allotted for internal evaluation.
- For practical subjects, the candidate should get minimum marks of 24 marks in external evaluation out of 60 and 16 marks in internal evaluation out of 40 .
- For project viva voce, $80 \%$ of the marks for project report evaluation and $20 \%$ marks are allotted for Viva voce.
- For project, the candidate should get minimum marks of 40 Marks out of 100 Marks.



## QUESTION PAPER PATTERN

THEORY

## QUESTION PAPER PATTERN

| Unit | Section-A | Section-B | Section-C |
| :---: | :--- | :---: | :---: |
| I | Q. 1,2,3 | Q.16 | Q. 21a,21b |
| II | Q. 4,5,6 | Q.17 | Q.22a,22b |
| III | Q. 7,8,9 | Q.18 | Q.23a,23b |
| IV | Q.10,11,12 | Q.19 | Q.24a,24b |
| V | Q.13,14,15 | Q. 20 | Q.25a,25b |



# SECTION A ( $15 \times 1=15$ ) ANSWER ALL THE QUESTIONS <br> SECTION B (5 x $2=10$ ) <br> <br> ANSWER ANY TWO QUESTIONS 

 <br> <br> ANSWER ANY TWO QUESTIONS}

## SECTION C (5 x $10=50)$ <br> EITHER OR CHOICE ANSWER ALL THE QUESTIONS

## INTERNALASSESSMENT

TEST : 15
ASSIGNMENT :
ATTENDANCE:

| PASSING MINIMUM (IA) 40\% | -10 MARKS |
| :--- | :--- |
| PASSING MINIMUM (UE) 40\% | -30 MARKS |
| PASSING MINIMUM TOTAL | -40 MARKS |

## PRACTICAL:

Time: 3 Hours
SECTION A (1X20= 20)
SECTION B (1 X40= 40)
INTERNALMARKS:

RECORD:
SAMPLE:
ATTENDANCE:


TOTAL:
40 MARKS

| PASSING MINIMUM (IA) $40 \%$ | -16 MARKS |
| :--- | :---: |
| PASSING MINIMUM (UE) $60 \%$ | -24 MARKS |
| PASSING MINIMUM TOTAL | -40 MARKS |

SEMESTER
I

| Course Code | PATTERN MAKING \& GRADING | L | T | $\mathbf{P}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | CORE-I | 3 | 2 | - | 4 |
| Basics of Garment Production |  | $\text { Syllabus } \begin{aligned} & 2021 \\ & \text { Onwards } \end{aligned}$ |  |  |  |

## Course Objectives:

1. To Impart the students ability to create design through flat pattern technique.
2. To impart the techniques of dart manipulation.
3. To enable the students to learn the skills of standardizing body measurements.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to learn as follows:

| 1 | List out the steps in taking body measurements for gents, ladies and kids. | K2 |
| :--- | :--- | :--- |
| 2 | Explain the pattern drafting techniques for different garment blocks. | K2 |
| 3 | Clarify the pattern draping techniques for different garment blocks. | K2 |
| 4 | Analyzing the grain of fabric and predict the actual pattern size by grading. | K4 |
| 5 | Summarize the pattern alteration techniques and fabric layout. | K2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create Unit:1 BODY MEASUREMENTS
Importance, Preparation for measuring, Girls and Ladies measurements, Boy's and Men's measurements. Standardizing body measurements, Importance, Techniques used. Relative length and girth measurements. Preparation of standardized measurement chart.

## Unit:2 DRAFTING

Pattern making terminology, Methods of pattern making, Types of paper patterns, Pattern making tools, Steps in drafting Bodice front, Bodice back, Sleeve, Skirt front and back, Collar- one piece peter pan and shirt collar. Dart Manipulation, Technique-Slash and Spread method and Pivotal method. Study of commercial pattern, Merits \& Demerits. Preparation of commercial pattern for kids. Fitting - Standards of a good fit, Steps in preparing a blouse for fitting, checking the fit of a blouse.

## Unit:3 DRAPING

Draping -Definition and Meaning, Need for draping, Importance of Draping Technique, Advantages and Disadvantages, Tools and Equipment's used for Draping, Preparation of dress form. Importance of grain, preparation of Muslin Material, straightening, tearing and pressing.

## Unit:4 GRADING AND PREPARATION OF FABRIC FOR CUTTING

Grading-Introduction and importance of grading, Manual Grading of basic bodice - front and back, Sleeve, skirt and Collar, Computerized Grading. Basic terms: Grain, Selvedge, On grain, Off Grain, Off Grain Print, With the Grain, Against the Grain, Importance of Grain in Fabric. Cutting -Preparing the Fabric for Cutting, Methods of straightening fabric ends, Methods of straightening fabric grain, shrinking fabrics.

## Unit:5 PATTERN ALTERATION AND LAYOUT

Importance of altering patterns, Principles for pattern alteration, common pattern alteration in blouse. Pattern layout - Definition, Purpose, Rules in layout, Types of layout and Special layouts. Piecing, transferring pattern markings.

1 Mary Mathews, Practical Clothing Construction- Part I and II, - Cosmic Press, Madras, 1990
2 Helen Joseph Armstrong, (2014).Pattern Making for Fashion Design. $5^{\text {th }}$ editions. India: Dorling Kindersley
3 Gayatri Verma, (2006).Cutting and Tailoring Course. New Delhi: Asian publishers.
4 Connie Amaden Crawford, (2005).The Art of Fashion Draping III Edition. OM Books International.
5 Lori A. Knowles, (2005).The Practical Guide to Pattern Makingfor Fashion Designers. New York: Fair Child, Publications, Inc.

Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 https://textilelearner.blogspot.com/2014/03/methods-off-garment-parttern-grading.html
2 https://www.threadsmagazine.com/2008/11/01/making-sense-of-pattern-grading
3 https://www.clothingpatterns101.com/pattern-grading.html

| Course Code | BASICS OF APPAREL DESIGNING PRACTICAL | L | T | $\mathbf{P}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ALLIED PRACTICAL-I |  | - | - | 3 | 2 |
| Basic Knowledge of Garment Production |  | Syllabus |  |  |  |
| Course Objectives: |  |  |  |  |  |
| 1. To impart practical exposure in sewing operation. <br> 2. To acquaint students with the knowledge on basic sewing techniques. <br> 3. To impart the knowledge and skills required for garment designing. |  |  |  |  |  |
| Expected Course Outcomes: |  |  |  |  |  |
| On the successful completion of the course, student will be able to: |  |  |  |  |  |
| 1 Assemble various seams, seam finish and bias finishing techniques using various class stitches. |  |  |  | P2 |  |
| 2 Make fullness methods, placket and fasteners attachments in garment. |  |  |  | P4 |  |
|  |  |  |  | P4 |  |
| P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization. |  |  |  |  |  |
| 1. Preparation of Samples for Seams and Seam Finishes. <br> 2. Preparation of Stitches ((Class 100 to Class 600)) <br> 3. Preparation of Samples for Hems. <br> 4. Preparation of Samples for Fullness. (Darts, Tucks, Pleats, Gathers, Flares, Ruffles, Godets and Gathers) <br> 5. Preparation of Samples for Facing and binding.(Any2) <br> 6. Preparation of Samples for Plackets and fasteners.(Any2) <br> 7. Preparation of Samples for different Sleeves.(Any2) <br> 8. Preparation of Samples for different Collars.(Any2) <br> 9. Preparation of Samples for different Yokes.(Any2) <br> 10. Preparation of Samples for different pockets(Any2) |  |  |  |  |  |
| Text Book(s) |  |  |  |  |  |
| 1 Gayatri Verma and Kapil Dev, (2006).Cutting and TailoringCourse. New Delhi: Asian Publishers |  |  |  |  |  |
| 2 .K R Zarapker, (2005). Zarapker System of Cutting. New Delhi: Navneet Publications Ltd. |  |  |  |  |  |
| 3 Thangam Subramaniam, (2006). Dress Making- Bombay Tailoring and Embroidery College |  |  |  |  |  |
| 4 Ruth Sleigh Johnson, (2011).Practical sewing techniques. London :A\&C Black publishers |  |  |  |  |  |
| Related Websites |  |  |  |  |  |
| 1 https://ecourseonline.iasri.res.in/mod/page/view.phb?id=114171 |  |  |  |  |  |
| 2 https://www.fibertofashion.com/industry-article/5658/basic-of-pattern-making |  |  |  |  |  |
| 3 https://www.clothingpatterns101.com/style-lines.html |  |  |  |  |  |



## SEMESTER <br> II

| Course code | FASHION DESIGN CONCEPTS \& METHODOLOGY | L | T | $\mathbf{P}$ | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CORE-II |  | 2 | 2 | - | 3 |
| Basic of design concepts and methodology |  | Syllabus$\mathbf{O n 2 1}$ <br> Onwards |  |  |  |

## Course Objectives:

The main objectives of this course are to:

1. To acquaint the student with the history of fashion and its elements.
2. To impart knowledge on fashion art and its importance.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Outline the fashion terms and roles of fashion designers. | K 2 |
| :--- | :--- | :--- |
| 2 | Explain the elements of design and its applications. | K 2 |
| 3 | Interpret color theory and its applications of fashion field. | K 2 |
| 4 | Clarify the Principles of design and its applications. | K 2 |
| 5 | Define fashion style and list down the garment details. | K 1 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit:1 Fashion Context
Introduction to fashion- Fashion Definition - Fashion terminologies - Classification of fashion Fashion cycle -Factors influencing in fashion - Role and responsibilities of a fashion designer - Types of fashion designers.

## Unit:2 Elements of Design

Elements of design- Introduction to design - Types of design - Elements and their importance in a design - Line - Types - Application of line in a garment -Influence of line in various illusion - Shape Types - Importance of shape in garment design - Texture - Determinants of texture - Effect of texture on color \& physical proportion.

## Unit:3 Color Theory

Color \& Color theory Introduction to color theories - Dimensions of color - Color systems - Warm and cool colors - color schemes - Application of color in fashion design - Visual impact of color in a garment - Importance of color psychology.

## Unit:4 Principles of Design

Principles of design, Importance of principles of design in fashion - Balance and its types - Proportion and its application in garment design - Emphasis - Creating emphasis in a garment using various techniques - Harmony and its impact in garment design - Rhythm - Application of rhythm in garment design.

## Unit:5 Fashion style and Garment Details

Introduction to fashion style details and various garments Importance of details in apparel design Various types of neck, collar \& sleeve - Different types of waist \& hem lines - Types of plackets, Pockets- Garments for men, women and kids - Unisex garments - Intimate , active and functional garments

## Text Book(s)

1 Injoo Kim \& Mykyung Uh, "Apparel Making in Fashion Design", Fair child Publications, New York (2002).
2 Bride M. Whelan, "Colour Harmony - A Guide to Creative Colour Combinations", Rockport Publishers, USA (1997).
3 James Stockton, "Color", Chronicle Book Publishers, San Francisco (1984).
4 Axel Venn, "Color Kaleidoscope, Mode", Information Group (1997).
5 Sumathi.G.J, "Elements of Fashion and Apparel Design", New Age International (P) Ltd, New Delhi (2002).
6 Patric John Ireland, "Fashion Design Drawing and Presentation", B.T. Batsfort Ltd, London (1982)

7 Jenny Davis, "A Complete Guide to Fashion Designing", Bharat Bhushan Abhishek Publication (2006).

8 Kathryn Mckelvey \& Janine Munslow, "Fashion Design", Blackwell Publication (2003).

| Course code | FASHION DESIGN CONCEPTS \& METHODOLOGY PRACTICAL | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CORE PRACTICAL-I |  | - | - | 3 | 2 |
| Fundamentals of Fashion Sketching |  | Syllabus 2021 |  |  |  |

## Course Objectives:

The main objectives of this course are to:

- To develop the skill of free hand drawing \& sketching, in order to visualize and analyze, observe \& communicate ideas and concepts.
- To learnt the basic principle of designs \& color concepts


## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Develop Prang colour chart, value and intensity charts | P3 |
| :--- | :--- | :--- |
| 2 | Illustrate human figures for a child, woman and man | P4 |
| 3 | Sketch garment designs for various seasons with the applications of elements, <br> principles and color harmonies of design. | P4 |

P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization.

## 1. Prepare the following Charts

- Prang colour chart,
- Value chart
- Intensity chart

2. Illustrate Human Figure for the Following Heads

- Child - 6 head
- Women -8 head, 10 head and 12 head
- Man - 10 head

3. Illustrate Garment Designs for the Elements of Design (3 each)

- Line
- Texture
- Shape

4. Illustrate Garment Designs for the Principles of Design

- Balance (Formal and Informal)
- Harmony
- Emphasis
- Proportion
- Rhythm (by Repetition, Gradation and Line Movement)


## 5. Illustrate the Colour Harmony in Dress Design

- Monochromatic
- Analogous
- Complimentary
- Double complementary
- Split complementary
- Triad
- Neutral

|  | 6. Create Garments for the Following Seasons |  |
| :---: | :---: | :---: |
| - Summer <br> - Winter <br> - Autumn <br> - Spring |  |  |
| Text Book(s) |  |  |
| 1 | Fashion Sketch Book, Bina Abling, Fair Child Publications, New York Wardrobe, 1988. |  |
| 2 | Illustrating Fashion, Kathryn McKelvey and Janine Munslow, Blackwell Science, 1997. |  |
| 3 | Art and Fashion in Clothing Selection , Mc Jimsey and Harriet, Iowa State University Press, Jowa, 1973. |  |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |  |
| 1 | https://www.idrawfashion.com/ |  |
| 2 | https://www.fashionistasketch.com/drawing-faces-fashion-illustration/ |  |
| 3 | https://in.pinterest.com/pin/458804280762797371/ |  |



| Text Book(s) |  |
| :---: | :--- |
| 1 | A Text Book of Fiber Science and Technology, Mishra, S.P, New Age International (P) Ltd <br> Publishers, New Delhi 2000. |
| 2 | Spun Yarn Technology, Eric Oxtoby, Butterworth-Heinemann, Published in 1987. |
| 3 | The Motivate Series - Textiles, Wynne, A, Publisher : Macmillan Education Ltd., <br> London, 1997. |
| 4 | Hand Book of Textile Fibers - Vol. I \& Vol. II. Gordon Cook, J, Wood Head Publishing Ltd., <br> Cambridge, England, 1984. |
| 5 | Man-made Fibers, Moncrieff, W, Butterworth Scientific Publication, 1975. |
| 6 | Handbook of Textile Fibers: Natural Fibers, J Gordon Cook, Wood head publication <br> Limited, 1984. |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |
| 1 | $\underline{\text { https://textilelearner.blogspot.com/ }}$ |
| 2 | $\underline{\text { https://www.textiletoday.com.bd/category/innovations/fiber-yarn-fabric/ }}$ |
| 3 | $\underline{\text { https://study.com/academy/lesson/textile-yarns-definition-types-classification.html }}$ |

## SEMESTER III



| Text Book(s) |  |
| :---: | :--- |
| 1 | R.Marks, A.T.C. Robinson, Principles of Weaving, The Textile Institute, Manchester (1976) |
| 2 | B.Hasmukhrai, Fabric Forming, SSM ITT Cooperative stores Ltd, Komarapalayam (1996). |
| 3 | K.T.Aswani, Fancy Weaving Mechanism, Mahajan Book Distributors, Ahmadabad (1990). |
| 4 | N.Gokarneshan, Fabric Structure and Design, New Age International Publishers, New <br> Delhi(2004). |
| 5 | David spencer, "Knitting technology", pergamen press, Oxford (1982) |
| 6 | D B Ajgonker, "Principles of knitting", Universal publishing corporation.(1998) |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |
| 1 | https://www.cottonworks.com/topics/sourcing-manufacturing/weaving/basic-woven-designs- <br> introduction-to-woven-fabric/ |
| 2 | https://www.textileschool.com-453-wovendesign- |
| 3 | https://www.intechopen.com/books/advances-in-modern-woven-fabric-technology/color-and- <br> weave-relationship-in-woven-fabric |


| Course code | HISTORIC COSTUMES OF INDIA | L | T | P | C |
| :--- | :---: | :---: | :---: | :---: | :---: |
| ALLIED- I | $\mathbf{4}$ | $\mathbf{1}$ | - | $\mathbf{5}$ |  |
| Syllabus |  |  | 2021 |  |  |
|  | History of Indian Costumes |  | Onwards |  |  |

## Course Objectives:

The main objectives of this course are to:

1. To learnt the traditional costumes of India.
2. To review the Indian history of costumes.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Infer about fashion evolution in fashion industry. | K2 |
| :--- | :--- | :--- |
| 2 | Generalize the dyed and printed textiles of India | K2 |
| 3 | List out the traditional costumes of Indian states | K2 |
| 4 | Device the traditional embroideries of India | K2 |
| 5 | Categorize the kinds of Indian Jewelers. | K2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit:1
Fashion Evolution
Fashion Evolution -Beginning of Civilization -costumes of men and women: Ancient Greek, Ancient Roman, Ancient Egyptian, and French costumes at 17th century. Indian CostumesBeginning of costumes- Pre Vedic Era \& Post Vedic Era: Mauryan, Kushan Dynasty, Gupta Dynasty - Mughal Period - Costumes of the British Raj.

## Unit:2 Dyed and Printed Textiles of India

Dyed and Printed Textiles of India -Process Of Dyed And Printed textiles of India: Kalamkari, Ikkat, Bandhani, Batik, Bagru Hand woven textiles of India: Dacca Muslin, Banarasi/ Chanderi, Brocades, Baluchari, Himrus and Amrus, Kashmiri shawls, Pochampalli Sarees, Silk sarees of Kancheepuram.

## Unit:3 Traditional Costume of Different States of India

Traditional Costume of Different States of India -Tamil Nadu, Kerala, Andhra Pradesh Karnataka, Assam, Orrisa, Bihar, Karnataka, West Bengal, Maharastra, Rajasthan, Haryana, Uttar Pradesh, Jammu and Kashmir, Gujarat, Madhya Pradesh.

## Unit:4 Traditional Embroideries of India

Traditional Embroideries of India - Origin ,Embroidery stitches used -embroidery of Kashmir, Phulkari of Punjab ,Gujarat - Kutch and Kathiawar, embroidery of Rajasthan , Kasuti of Karnataka ,Chicken work of Lucknow, Kantha of Bengal - in all the above - types and colors of fabric /thread.

## Unit:5 Indian Jewellery

Indian Jewellery- jewelleries used in the period of Indus valley civilization ,Mauryan period Gupta Period, the Pallava and Chola Period ,Symbolic Jewellery of South India,Mughal period. Temple Jewellery of South India, Tribal jewellery.A brief study of gems and precious stones.

## Text Book(s)

1 G.H Ghosrye, "Indian Costume", Popular books Pvt Ltd
2 Jamila Brij Bhushan, D B Tarapore, "The costumes and textiles and India", vala Sons \& Co, Bombay (1958)
3 Das S.N, DB Tarapore, "Costumes of India and Pakistan", vala Sons and co, Bombay (1956).
4 Francois Boucher, "History of Costumes in the West"
5 Elizabeth Ewing, "History of 20th Century Fashion", [Revised By -Alice Macrell].

| Course Code | FASHION CLOTHING <br> PSYCHOLOGY | $\mathbf{L}$ | $\mathbf{T}$ | $\mathbf{P}$ | $\mathbf{C}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allied II |  |  |  |  |  |  | $\mathbf{3}$ | $\mathbf{2}$ | - | $\mathbf{4}$ |
|  | Basics of Fashion Psychology | Syllabus | $\mathbf{2 0 2 1}$ <br> Onwards |  |  |  |  |  |  |  |

## Course Objectives:

- To elaborate the role of fashion \& clothing in communication of cultural practices, which are enables to understand the function of a garment.
- To explore meaning of fashion and clothing for designer.


## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Predict Fashion and its origin. | K2 |
| :---: | :--- | :--- |
| 2 | Outline the focus of fashion and fashion cycle. | K2 |
| 3 | Appraise the movement of fashion and its factors | K3 |
| 4 | Interpret the various fashion designers and freelancers in India. | K2 |
| 5 | Clarify International fashion centers and brands. | K2 |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create |  |  |

## Unit:1 Fashion

Origin of Fashion - Importance of fashion - Development of fashion, Components of fashion -, Design Details, Texture, Color and Silhouette. Types of silhouette Natural Body, Slim line, Wedge, Hour Glass, Extreme Volume Silhouette.

## Unit:2 Fashion Focus

Fashion Focus - The designers Role, The Manufacturers Role, The Retailers Role, Scope of Fashion Business - Primary Level, The Secondary Level, The retail level and the Auxiliary level. Study about International Designers - Fashion related cycle and theories.

## Unit:3

Movement of Fashion
The Movement of Fashion - Factors influencing fashion movement-Accelerating factors, Retarding factors, and Recurring fashions. Predicting the movement of fashion.

## Unit:4

Designers
Types of designers - High fashion Designer, Stylist, and Freelance Designer. Sources of design inspiration. Indian fashion Designers-Manish Malhothra, Ritukumar, Rituberri, TarunTahilani, Wendell Rodricks, Abu Jani and Sandeep Khosla, JJ Valaya, Rina Dhaka, Manish Arora, and Rohit Bal.

## Unit:5 International Fashion Centers

Study of International Fashion centers - France, Italy, England, Germany, Canada, NewYork. Study of International Fashion Brands-Women's Wear, Men's Wear, Kids Wear, Sports Wear, Cosmetics and Accessories.

## Text Book(s)

1 Elainestone, "The Dynamics of Fashion", Fair child publications, New York, 2001.
2 Gini Stephan Friengs "Fashion from concept to consumer", [Sixth Edition], Prentice Hall. 1999.

$\left.\begin{array}{|l|c|c|c|c|c|c|}\hline \text { Course code } & \text { FIBRE TO FABRIC SCIENCE } & \text { L } & \text { T } & \text { P } & \text { C } \\ \text { PRACTICAL }\end{array}\right]$

- To determine and testing of textile fibres and yarns
- To identify the different types of weaves
- To understand the woven fabrics designs


## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Identify the textile fibre by using appropriate methods | P3 |
| :--- | :--- | :--- |
| 2 | Determine yarn parameters like count, twist and blend proportion. | P4 |
| 3 | Analyze the various woven fabric design | P4 |

P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization.

## LIST OF EXPERIMENTS

1. Identification of fibers- Cotton, Silk, Wool, Polyester, Viscose, Nylon
2. Determination of blend proportion of $\mathrm{P} / \mathrm{C}, \mathrm{P} / \mathrm{V}, \mathrm{P} / \mathrm{W}$ blends
3. Determination of Yarn count
4. Determination of Yarn Twist
5. Determination of Fabric Count (EPI x PPI)

- Analysis of following fabrics for Design, Draft, Peg Plan, Ends per inch, Picks per inch, Dents per Ends, Yarn count, Yarn crimp, Cover factor \& Weight per square yard of fabrics.

6. Plain weave and its derivatives
7. Twill weaves $-2 / 1,3 / 1$.
8. Satin / Sateen
9. Pointed Twill Weave
10. Honey comb
11. Huck - a - back
12. Crepe weaves
13. Extra Warp - Dobby \& Jacquard Weave
14. Extra Weft- Dobby \& Jacquard Weave
15. Mock leno
16. Pile weave

## Text Book(s)

1 Handbook of Textile fibers, Woodhead Publications, (1984).
2 N.Gokarneshan, Fabric Structure and Design, New Age International Publishers,New Delhi(2004).

| Course code | E- DESIGNING PRACTICAL | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SBEC Practical-I 2 - 2 3 <br> Basics of E-Designing Skills Syllabus  $\mathbf{2 0 2 1}$  <br> Onwards     |  |  |  |  |  |
|  |  |  |  |  |  |

## Course Objectives:

- Aims to develop creative skills for visual Communication, principles \& color harmony designing.
- Analyze, select \& apply tools appropriate for creating a design.
- To develop designing skill for various costumes.


## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Design textile informative templates/guides using CAD software. | P4 |
| :--- | :--- | :--- |
| 2 | Create garment design and apply principles and Color harmonies. | P5 |
| 3 | Generate garments for gents, ladies and kids for different kinds of occasions. | P5 |

P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization.
1.Using design software create the following visual communication design

- Create brand name \& design logo for it.
- Design Visiting card, Letter pad \& Envelop design
- Design a Calendar
- Design Label for your brand
- Design Tag for your brand
- Design packing material for your brand
- Practice in Lay-Out Design
- Practice in Poster Design
- Practice in Dangler Design
- Practice in Hand bag Design
- Practice in Hoarding Design


## 2. Application of colour harmony in Design

- Monochromatic colour harmony
- Analogous colour harmony
- Complementary colour harmony
- Double Complementary colour harmony
- Split complementary colour harmony
- Triad colour harmony
- Tetrad colour harmony
- Neutral colour harmony

3. Applications of principles of design in dress design

- Balance-Formal and informal
- Rhythm - by line movement, gradation, repetition.
- Emphasis
- Proportion
- Harmony


## 4. Design Garments for the following.

- Party Wear - Women, Men, Children.
- Sports Wear- Tennis, Basket ball/foot ball (men and Women), Golf, anyother.
- Fashion show - Children, men and women
- Winter Wear - Children, men and women
- Summer Wear - Children, men and women
- Spring Wear - Children, men and women
- School uniforms - Preschool, school, higher secondary and college going students-boys and girls.


| Course Code | FUNDAMENTALS OF TEXTILE | L | T | P | C |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Nasic Knowledge about Fibre to Fabric |  |  | $\mathbf{2}$ | - | - | $\mathbf{2}$ |
|  | Syllabus | $\mathbf{2 0 2 1}$ |  |  |  |  |
| Onwards |  |  |  |  |  |  |

## Course Objectives:

1. The subject aims to make the students different types of fabrics, yarn \& its use.
2. To facilitate the students to understand the structural features of Fibers and Yarn.
3. To investigate techniques of textile fibers and yarn with its manufacturing Process.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Explain about textile fibre and its characteristics. | K 2 |
| :--- | :--- | :--- |
| 2 | Infer about the manufacturing process of textile natural and man-made fibres. | K 2 |
| 3 | Clarify the spinning process of textile fibers into yarns. | K 2 |
| 4 | Describe the woven fabric constructional method. | K 2 |
| 5 | Generalize the non-woven fabrics and their types. | K 2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4-Analyze; K5 - Evaluate; K6 - Create
Unit:1
Textile Fibres
Introduction to the field of Textiles - classification of fibres - natural and chemical - primary and secondary characteristics of textile fibres.
Unit:2 $\quad$ Manufacturing of fibres and their properties
Manufacturing process, properties and uses of natural fibres - cotton, linen, jute, pineapple, hemp, silk, wool, hair fibres, Man-made fibres - viscose rayon, acetate rayon- nylon, polyester, and acrylic.
Unit:3
Spinning Process
Spinning - definition, classification - chemical and mechanical spinning - blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning-Yarn classification - definition classification - simple fancy yarns, sewing threads and its properties .

## Unit:4 Weaving process and woven fabrics

Woven - basic weaves- plain twill, satin, fancy weaves - pile, double cloth, leno, swivel, tappet, dobby and jacquard, weaving technology- process sequence - machinery details.
Unit:5
Non-Woven fabrics
Non- woven- felting, fusing, bonding, lamination, netting, braiding and calico, tatting and crocheting.

## Text Book(s)

1 Dantyagis, "Fundamentals of Textile and Their Care", Oriental Longmans Ltd, NewDelhi,1996
2 Denlkar, "Household Textiles and Laundry Work",Atma Ramand Sons,Delhi, 1993
3 Neomi D'Souza, "Fabric Care", New Age International Publisher,1998
4 Davis, "Laundry and Clothing Care", Drama Book Publishers, 1995
Related Websites

| 1 | https://www.bhg.com/homekeeping/laundry-linens-cloths-how-to-wash-clothes-by-hand/ |
| :---: | :--- |
| 2 | https://textilelearner.blogspot.com/2013/07/textile-finishing-processing.html |





| Course code | WOMEN'S APPAREL PRACTICAL | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Core Practical-IV |  |  | 6 | 3 |
| Basics of Women's Garment Construction Techniques |  |  | Syllab |  |  |
| Course Objectives: |  |  |  |  |  |
| The main objectives of this course are to: <br> 1. Design Garments for women <br> 2. Impart Skills in pattern drafting <br> 3. Construct garments by sewing |  |  |  |  |  |
| Expected Course Outcomes: |  |  |  |  |  |
| On the successful completion of the course, student will be able to: |  |  |  |  |  |
| Desi | Design and generalize the measurements for the various womens' garments. |  |  |  |  |
|  | Prepare patterns and calculate material requirement for the designed women's wear. |  |  |  |  |
| Cons | Construct the designed women's garment and calibrate the cost of the garment. |  |  |  |  |
| P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization. |  |  |  |  |  |
| Designing, drafting and constructing the following garments for the features prescribed in the following criteria. <br> - Measurements chart <br> - Layout method <br> - Break down analysis of the garment <br> - Sequence of Assembling and its procedures. <br> - Type of seam for each assembly process. <br> - CMT costing and garment costing |  |  |  |  |  |
| WOMEN'S GARMENTS |  |  |  |  |  |
| 1. Saree Petticoat- 6,7,8 core Panel, Decorated bottom. <br> 2. Skirts - Circular/ Umbrella/ Panel with style variations. |  |  |  |  |  |
| 3. Blouse - Front open, fashioned neck, Waist band at front, with sleeve. |  |  |  |  |  |
| 6. Nightie -With yoke, Front open, with sleeve, Full length. <br> 7. Ladies pant- Waist band, Zip attached, tight fitting / Parallel pants. <br> 8. Short kurta / Top - Decorative / Surface design in tailored placket, with or without collar. |  |  |  |  |  |
| Text Book(s) Whs |  |  |  |  |  |
| 1 Scientific garment quality -K M Illege and Sons, Plot No. 43, Somuvar Peth pune 411011 |  |  |  |  |  |
| 2 Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986) |  |  |  |  |  |
| 3 Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college 32 |  |  |  |  |  |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |  |  |  |  |
| 1 https://www.patternsonline.com-default.aspex |  |  |  |  |  |
| 2 https://shoeguide.com/ |  |  |  |  |  |


| Course code | FASHION ACCESSORIES \& EMBELLISHMENT | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | SBEC-II |  |  | 4 | 3 |
| Practical Knowledge of Embellishment Work |  |  | $\begin{array}{\|l\|l\|} \hline \text { Syllabus } & \mathbf{2 0 2 1} \\ & \text { Onwards } \\ \hline \end{array}$ |  |  |
| Course Objectives: |  |  |  |  |  |
| 1. To impart knowledge to the students about the hand and machine embroidery. <br> 2. To learn the various types of stitches. <br> 3. To provide opportunity for skill development in designing accessories. <br> 4. To impart knowledge on fashion accessories \& creativity. |  |  |  |  |  |
| Expected Course Outcomes: |  |  |  |  |  |
| On the successful completion of the course, student will be able to: |  |  |  |  |  |
| Deve | and and machine embroidery samples. |  |  |  |  |
| 2 Desi | omplex fashion accessories in decorative manner. |  |  |  |  |
| 3 Pro | the Indian traditional embroidery samples. |  |  |  |  |
| P1 - Imitation; P2 - Manipulation; P3-Precision; P4-Articulation; P5- Naturalization. |  |  |  |  |  |
| A. Prepare samples for the following <br> 1. Hand embroidery -20 stitches -10 samples <br> 2. Machine embroidery -7 stitches -3 samples. <br> 3. Applique ( machine / hand )- 3 types <br> 4. Smocking - 4 types <br> 5. Bead Work -1 sample <br> 6. Sequins work -1 sample <br> 7. Zardosi work -1 sample <br> 8. Tassels and fringes -2-3samples. <br> 9. Mirror work -Shapes (Round, square, diamond) - 3 samples 10. Fixing the stones-1 sample. |  |  |  |  |  |
| Text Book(s) |  |  |  |  |  |
| 1 Scientific garment quality -K M Illege and Sons, Plot No. 43, Somuvar Peth pune 411011 |  |  |  |  |  |
| 2 Shailaja D. Naik, Traditional embroideries of India, APH Publishing (1996) |  |  |  |  |  |
| 3 Dress making- Smt Thangam Subramaniam Bombay Tailoring and embroidery college 32 |  |  |  |  |  |
| 4 Libby Moore Thread folk, a Modern Maker's book of Embroidery, Project \& Artist Collaboration, Paige Tata \& Co. |  |  |  |  |  |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |  |  |  |  |
| $1 \mathrm{https}: / /$ sueguide.csom/smocking/ |  |  |  |  |  |
| 2 https://www.youtube.com/watch?v=nJz9c8gEvFg |  |  |  |  |  |


| Course code |  | HOME <br> TEXTILES | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Allied-III |  |  | 3 | 1 | - | 4 |
| Knowledge about choice of fabrics for Home Textiles |  |  | $\text { Syllabus } \begin{aligned} & 2021 \\ & \text { Onwards } \end{aligned}$ |  |  |  |

## Course Objectives:

The main objectives of this course are to:

1. Impart knowledge on the various home textile products
2. Gain insights on the bed linens, kitchen linens, bathroom linens
3. Acquire better understanding on the choice of fabrics for the home textile products

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Classify the home textile products and its factors | K2 |
| :--- | :--- | :--- |
| 2 | Summarize the types of floor and wall coverings | K2 |
| 3 | Distinguish curtains and draperies | K2 |
| 4 | Describe the types of soft furnishings for living rooms. | K2 |
| 5 | Discover the types and functions of kitchen linens | K3 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit:1 1 Introduction to Home textiles
Different types of furnishing materials: Definition - Different types of furnishing materials Woven and Non-woven, Factors affecting selection of home furnishes. Recent Trends in Home Furnishing

| Unit:2 | Floor and wall coverings |
| :--- | :--- |

Floor coverings: Floor coverings - Hard floor coverings, resilient floor coverings. Soft floor coverings - Rugs and carpets, Use and care.Wall covering - Useand care.

## Unit:3 Door and Window treatments

Doors and Windows: Doors and Windows - Definition, Different types of doors and windows, their application. Curtains and Draperies - Choice of fabrics, calculating the amount of material needed, hints on making curtains hang well, methods of finishing draperies at the top - Use of drapery rods, hooks, and tape rings and pins.

## Unit:4 Soft furnishings for living rooms

Living Room Furnishing: Living room furnishing - sofa covers, wall hangers, cushion, cushion covers, upholsteries, Bolster and Bolster covers.Bed Linens - Definition, Different types of bed linens, sheets,blanket covers, comfort covers, bed spreads, mattress covers and pads, pillows and pillow covers, use and care.

## Unit:5 Soft furnishing for kitchen and dining

Soft furnishings for kitchen and dining, types of kitchen linens - kitchen towel, aprons, dish cloth, Kitchen and Table Linens:Kitchen and Table Linens - Definition - Types of Kitchen linens, Dish cloth, Hand towels, Fridge cover, Fridge handles, Mixi cover, Grinder cover, their useandcare.

## Text Book(s)

1 Home Comforts-The Arts and Science of Keeping Home, Cheryl Mendelson, Scriber, New York, 2005
2 Cushions and Pillows- Professional Skills - Made Easy, Hamlyn Octopus, Octopus Publishing Group, New York, 2001
3 The Ultimate Sewing Book 200 Sewing Ideas For You and Your Home, Magi Mc McCormick Gordon, Collins and Brown, London, 2002
4 Design and make curtains, Heather Luke, New Holland publishers, London, 1999
5 Cornucopia of Cushions, Susie Johns, Apple Press, London, 1997
6 Art in Everyday Life, Harriet Goldstein and Vetta Goldstien, The Macmillian Company, 2004
7 Performance of Home Textiles, Subrata Das, Woodhead Publishing India Pvt. Limited, 2010
8 Home Furnishing, V. Ramesh Babu and S. Sundaresan, Woodhead Publishing India Pvt. Limited, 2018
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 https://www.homestratosphere.com/types-curtains/
2 https://bettersleep.org/mattress-education/mattress-accessories/pillow-types/
3 https://textilecourse.blogspot.com/2018/06/types-classification-home-textiles.html
4 https://www.fibre2fashion.com/industry-article/1769/home-textiles-a-review
5 http://www.india-crafts.com/textile/home-textile.html


| Course code | TEXTILE WET PROCESSING PRACTICAL | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Core Practical-V | - | - | 5 | 3 |
|  | Textile Wet Processing of Dyeing and Printing |  | $\begin{array}{\|l\|l\|} \hline \text { Syllabus } & \begin{array}{l} \mathbf{2 0 2 1} \\ \text { Onwards } \end{array} \\ \hline \end{array}$ |  |  |

The main objectives of this course are to:

1. To gain a practical on-hand training on preparatory process.
2. To understand the technical importance of wet processing.
3. To plan various process requirements for dying.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Prepare the pre-treated fabrics for dyeing or printing. | P4 |
| :--- | :--- | :--- |
| 2 | Dye the fabric or yarn sample using adequate recipe. | P5 |
| 3 | Crete the printing sample using appropriate printing paste or color. | P5 |

P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization.
Preparation of samples for Processing:

- Desizing
- Scouring
- Bleaching
- Mercerising

Dye the given fabric using suitable dye:

- Direct Dye
- Sulphur Dyes
- Vat Dye
- Disperse Dye
- Reactive Dyes
- Acid Dye

Printing of Fabrics

- Printing of cotton using block and screen printing (2 Samples each).
- Printing of tie and dye and batik ( 2 samples each).
- Printing on cotton fabric with natural colors.


## Text Book(s)

1 AATCC Garment wet processing Technical manual (1994)
2 Textile processing and properties, Preparation, Dying, Finishing \& Performance, Tyrone L. Vigo, elsewhere publishing, Netherland
3 Textile Wet processing, Manoj Dole, Manoj Dole Publications Co. India (2018)
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

| 1 | https://britanicca.com/topic/textile/dying-and-printing |
| :--- | :--- | :--- |
| 2 | https://www.sciencedirect.com-topics/engineering/dying-process |



| Course code | APPAREL PRODUCTION MANAGEMENT | L | T | P | C |
| :--- | :--- | :---: | :---: | :---: | :---: |
| Core VII | $\mathbf{4}$ | $\mathbf{1}$ | - | $\mathbf{4}$ |  |
| Basic knowledge in garment production processes | Syllabus | 2021 Onwards |  |  |  |
| Course Objectives: |  |  |  |  |  |

The main objectives of this course are to:

1. The Students will learn about garment industry and technical parameters in garment production.
2. It will enhance the students to work with garment industry machinery \& equipment

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Describe the concept of plant location and layout | K2 |
| :--- | :--- | :--- |
| 2 | Explain the work study techniques in garment industry. | K2 |
| 3 | List out the techniques to improve productivity with quality production | K2 |
| 4 | Predict the line balancing techniques in apparel production unit. | K2 |
| 5 | Summarize production planning and control techniques in apparel sector. | K2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit:1 Plant Location and Layout
Plant Location and Layout. Production - Definitions - Terminology - Organizing for Production Function of Production Department - Introduction to Garment Industry Plant Location - Location Economics -Plant Layout - Process Layout -- Product Layout - Combination Layout -Introduction to Balancing Theory - Balance Control.

## Unit:2 Work Study

Work Study- Concept And Need - Method Study and Work Measurement -Techniques - Process Chart Symbol - Process Flow Chart -Flow Diagrams - String Diagrams - Multiple Activity Chart Principles of Motion Economy - Simo Chart - Time Study Methods - Standard Time Data Ergonomics With Special Reference To Garment Industry.

## Unit:3 Production and Productivity

Production and Productivity- Methods of Production Systems - Job, Mass \& Batch - Section Systems, Progressive Bundle System \& 'Synchro' System- Conveyor Systems - Unit Production System - Advantages of UPS - Quick Response- Measurement of Productivity -"Men, Machine, Material" - Total Factor Productivity-Criteria for Increasing Productivity in Garment Industry.

## Unit:4 Line Balancing

Line Balancing - Duties and Responsibilities of Production manager / Supervisor - Effective Line Supervision - Factors of Production -Production Function - Process Flow and Charts for Garment Scheduling Calculations.

## Unit:5 Production Planning and Control

Production Planning and Control - Capacity Requirement Planning [CRP] - Material Requirement Planning -Steps in Production Planning - Factors to be consider in Production Planning -Function, Qualitative and Quantitative Analysis of Production - Coordinating Departmental Activities Practical Difficulties in implantation.

## Text Book(s)

1 Carr\& Latham, "Technology of Clothing Manufacture"
2 Jacob Solinger, "Apparel Manufacturers Handbook"
3 Gerry Cooklin, "Introduction to Clothing Manufacture"
4 J. Chuter, "Introduction to Production Management"
5 Tripathi, "Personal Management and Industrial Relations"
6 O.P. Khanna, "Industrial Engineering and Management"


| Text Book(s) |  |
| :---: | :--- |
| 1 | ShenaiandSaraf.1995.TechnologyofTextileFinishing.Sevakpublications. |
| 2 | NallangilliandJayaprakasam.2005.TextileFinishing.S.S.MInstituteofTextile Technology. |
| 3 | Prayag.1996.Technologyoffinishing.ShreeJ.Printers,Pune |
| Related websites |  |
| 1 | https://nptl.ac.in/courses/116/102/116102054/ |
| 2 | https://ugcmoocs.inflibnet.ac.in/ugcmoocs/view_ug.php/130 |


| Course Code | ENTREPRENEURSHIP DEVELOPMENT | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CORE-IX |  | 4 |  | - | 4 |
| Basics of Entrepreneurship Development |  | Syllabus 2021Onwards |  |  |  |

## Course Objectives:

The main objectives of this course are to:

1. Familiar the students with challenges of starting new ventures
2. Enable them to investigate and understand the process of setting up a new business.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Infer about entrepreneurship and traits of entrepreneur | K2 |
| ---: | :--- | :--- |
| 2 | Identify a project and project report preparation | K2 |
| 3 | Generalize the formalities of SSI's Registration | K2 |
| 4 | Summarize the support institutions to help for business startup. | K2 |
| 5 | Interpret Incubation centers and start up in India | K2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create

| Unit:1 | Introduction to Entrepreneurship |
| :--- | :--- |

Entrepreneurship: Concept and Definitions; Entrepreneurship and Economic Development; Classification and Types of Entrepreneurs; Entrepreneurial Competencies; Factor Affecting Entrepreneurial Growth - Economic, Non-Economic Factors; EDP Programmes; Entrepreneurial Training; Entrepreneur; Manager Vs. Entrepreneur.

## Unit:2 Starting the venture

Project Identification - Project formulation - Project design - preparing project report - Project Planning and Scheduling using Networking Techniques of PERT / CPM; Methods of Project Appraisal.

## Unit:3 SSI and Registration

Small Enterprises and Enterprise Launching procedures and Formalities Role of SSI in Economic Development of India; SSI; Registration; NOC from Pollution Board; project report presentation guidelines
Unit:4 Sources of Finance and Institutional Assistance
Role of Support Institutions and Management of Small Business: Director of Industries; DIC; SIDCO; SIDBI; Small Industries Development Corporation (SIDC); SISI; NSIC; NISIET, NIESBUD; TANSIDCO; TIIC; State Financial Corporation; KVIC

## Unit:5 Financial Incentives

Ministry of MSME Scheme \& Subsidy- Tax concessions; - seed capital assistance - Role of entrepreneur in export promotion and import substitution - Social Entrepreneur, Incubation center, Startup India

| Text Book(s) |  |
| :---: | :--- |
| 1 | Entrepreneurial Development, Dr. C.B. Gupta, Sultan Chand \& Sons, New Delhi, 2009 |
| 2 | Entrepreneurial Development, Dr.S. S Khanka, Sultan Chand \& Sons, New Delhi, 2009. |
| 3 | Entrepreneurship Development and Small Business Enterprises, Charantimath, Poornima, <br> Pearson Education, New Delhi, 2006 |
| 4 | Entrepreneurship New Venture Creation, David H. Holt, Prentice Hall of India Private <br> Limited, New Delhi, 2005 |
|  |  |
| 1 | heltated Websites |
| 2 | https://www.rert.nic.in/textbook/pdf/kebs109.pdf |


| Course code | APPAREL QUALITY ASSURANCE | L | T | $\mathbf{P}$ | $\mathbf{C}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | MBEC-I | $\mathbf{4}$ | - | - | 3 |
|  | Basics of Apparel Quality Control \& Assurance | Syllabus | 2021 |  |  |
|  |  |  | Onwards |  |  |

## Course Objectives:

The main objectives of this course are to:

1. To facilitates the understanding of Apparel quality assurance principles and process.
2. To understand the basics of apparel quality.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Outline quality and its parameters | K 2 |
| :--- | :--- | :--- |
| 2 | Analyse various defects of textile materials | K 4 |
| 3 | Generalize the concept of ISO implementation | K 2 |
| 4 | Predict the quality of raw materials through testing | K2 |
| 5 | Summarize the functions of apparel quality assurance | K5 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit:1 Quality
Define - Quality, QC, QA, Importance of quality and quality control. Raw material inspection-fabric inspection - 4 point system - 10 point system - in process inspection - final inspection - no inspection- $100 \%$ inspection - statistical sampling- AQL standards and preparing specifications.

## Unit:2 Defects

Fabric defects - pre sewing defects - sewing defects - post sewing defects-causes \& remedies. Minor and Major defects.
Unit:3
ISO
Need for ISO 9000 - ISO 9001-2008 Quality System - Elements, Documentation, Quality Auditing - QS 9000 - ISO 14000 - Concepts, Requirements and Benefits - TQM Implementation in manufacturing and service sectors. Eco tex concepts.

## Unit:4 Testing

Accessories testing - sewing threads, button, lining, interlining, hook, laces, elastics \& packing materials, Testing of dimensional stability - bow-skew ness - shrinkage.

## Unit:5 Apparel Quality Assurance

Apparel Quality Assurance in Packing - importance -types. Warehousing -scope \& importance - Shipping procedure.

## Text Book(s)

| 1 | Pradip metha, Satish k. Bhardwaj, "Managing quality in the apparel industries", NIFT, New age <br> international (p) ltd publishers, ND. |
| :--- | :--- |
| 2 | Harold Carr and Barbara Latham, "Technology of clothing manufacture", Oxford publications, ITSA. |
| 3 | Ruth EC, "Apparel manufacturing and sewing product analysis", |
| 4 | Pradip V Metha, "Introduction to quality control", ASCQ quality press, New York, 1992. |
| 5 | Wiley Eastern, "Total quality management - a practical approach", New York 1990. |


| Course code |  | MEN'S APPAREL PRACTICAL | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Core Practical-VI |  |  | - | - | 5 | 3 |
| Basic Knowledge about Men's garment construction |  |  |  | Syllabus$\mathbf{2 0 2 1}$ <br> Onwards |  |  |
| Course Objectives: |  |  |  |  |  |  |
| 1. To impart the practical knowledge in pattern drafting \& garment construction skill in men's wear for the Students. <br> 2. To develop creative skills in designing \& constructing men's wear for different age group <br> 3. To List out the measurements required and materials suitability. |  |  |  |  |  |  |
| Expected Course Outcomes: |  |  |  |  |  |  |
| On the successful completion of the course, student will be able to: |  |  |  |  |  |  |
| $1 \quad$ Design and generalize the measurements for the various mens' garments. |  |  |  |  |  |  |
| Prepare patterns and calculate material requirement for the designed men's wear. |  |  |  |  |  |  |
| 3 Construct the designed men's garment and calibrate the cost of the garment. |  |  |  |  |  |  |
| P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5- Naturalization. |  |  |  |  |  |  |
| 1. S.B.Vest - with/ without collar, button attached, sleeveless <br> 2. Slack shirt - full open, shirt collar, patch pocket, <br> 3. Nehru kurtha -stand collar, side pocket, half open <br> 4. Pyjama- Elastic /Tape attached waist. <br> 5. Pleated trousers - pleats in front, Darts at back, side pocket, fly with button /zip. <br> 6. T-Shirt - open collar, zip attached <br> 7. Bermudas -patch pocket <br> 8. Kalidhar Kurta |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Text Book(s) |  |  |  |  |  |  |
| 1 Practical Clothing Constructing-Part I and II, Mary Mathews, Cosmic Press, Chennai (1986) |  |  |  |  |  |  |
| 2 Zarapker System of Cutting- Zarapker. K. R, Navneet Publications ltd. |  |  |  |  |  |  |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |  |  |  |  |  |
| $1 \mathrm{https}: / /$ shoeguide.com/ |  |  |  |  |  |  |
| 2 https://www | w.patternson | com-default.aspex |  |  |  |  |


| Course code | FASHION DRAPING PRACTICAL | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Core Practical-VII |  | - | - | 2 | 2 |
| Basic knowledge in draping, body silhouettes and various fabrics |  | Syllabus | 2021 Onwards |  |  |

The main objectives of this course are to:

1. To understand the basic draping \& manipulation techniques.
2. To design and develop patterns for different garments based on the body measurements.
3. To interpret and transform their designs on a three-dimensional form using draping method.

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Prepare muslin and formulate the measurements for various garment's draping | P3 |
| :--- | :--- | :--- |
| 2 | Produce the pattern blocks in dress form for various garments | P5 |
| 3 | Create dart or pleat variations in appropriate garment patterns | P5 |

P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization.

1. Bodice - Front \& Back
2. Skirt - Front \& Back and Its Types
3. Pant - Front \& Back
4. Sleeve - Bell, Raglon, Cape, Puff, Circular, Kimono
5. Neckline - Boat, Key Hole, Halter, Scooped, Scalloped
6. Collar - Mandarin, Peter pan, Turtle, Ruffled \& Shawl
7. Cowls
8. Twist
9. Surplice
10. Yoke - Hip Yoke, Midriff \& Shirt Yoke
11. Design and Drape one couture wear for Men \& Women

## Text Book(s)

1 Draping for Fashion Design, $5^{\text {th }}$ Edition, Nuriesrelis, Hilde Jaffe and Rose Mary Torre, Pearson Prentice Hall Publications, United States, 2012.
2 The Art of Fashion Draping, Connie Amadan Crawford, Fair Child Publications, New York, 2005.

3 Draping for Apparel Design - $3^{\text {rd }}$ Edition, Helen Joseph and Armstrong, India, Bloomsbury Publications India Ltd, 2013.
4 Cutting and Draping Special Occasion Cloths: Designs for Party wear and Evening wear, Dawn Cloak, London, Batsford, 1998.

## Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]

1 https://style2designer.com/apparel/draping-mannequin/what-is-draping-technique-and-itsprocess/
2 https://www.aicp.fr/portfolio-items/moulage-technique-dumoulage/?lang=en\#:~:text=Draping\%2C\ the\ most\ ancient\ of,to\ create\  a\%20fabric\%20prototype

| Course code | $\begin{aligned} & \text { INTERNSHIP -PROJEC } \\ & \text { VIVA VOCE } \end{aligned}$ | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Core Practical- VII |  |  |  | 2 |
| Gain Practical insights of the industry / company |  |  | 2021Onwards |  |  |
| Course Objectives: |  |  |  |  |  |
| The main objectives of this course are to: <br> 1. Expose the students to the work environment <br> 2. Familiarize and adapt to the workplace <br> 3. Understand the methods, techniques and practices followed in the place of training |  |  |  |  |  |
| Expected Course Outcomes: |  |  |  |  |  |
| On the successful completion of the course, student will be able to: |  |  |  |  |  |
| 1 Copy the working structure of the industry/ company |  |  | P1 |  |  |
|  |  |  | P4 |  |  |
| $\begin{array}{ll}2 & \text { Analyze the methods adopted in the training place } \\ 3 & \text { Recognize the challenges in the training place }\end{array}$ |  |  | 3 |  |  |
| 3 Recognize the challenges in the training place |  | P1 - Imitation; P2 - Manipulation; P3 - Precision; P4 - Articulation; P5 - Naturalization. |  |  |  |
| No CIA, Report: 80 marks and Viva: 20 marks $L^{\text {a }}$ |  |  |  |  |  |
| Details of the Training |  |  |  |  |  |
| The student should undergo 15 Days Internship training in a Textile Processing Unit/ Designer House / Buying House/ Garment Unit / Retail house after IV semester theory exam / before the start of Fifth Semester (Total Marks - 100, No CIA, Report: 80 marks and Viva: 20 marks) |  |  |  |  |  |
| Purpose of the Internship Training |  |  |  |  |  |
| The training bridges the gap between the theoretical knowledge gained in the college and the practical application of the same in the industry / company / stores <br> The student will have a better exposure about the workplace and its nuances |  |  |  |  |  |
|  |  |  |  |  |  |
| Process to be Followed <br> Students can identify their area of interest. Industry / companies has to be identified and a profile of the company has to be analyzed at least a month earlier. Contacts can be established by the guides allotted to the student. Prior permission has to be obtained from the place of training. After confirmation, the student will undergo training for a period of 15 working days. |  |  |  |  |  |
|  |  |  |  |  |  |
| Instructions to the Students | - |  |  |  |  |
| The students should abide by the rules and regulations of the concern and get the maximum benefit from the training. The students should maintain a daily logbook where the student should record his details of the training. <br> A copy of the record has to be sent to the supervisor allotted to the student. The logbook must be Signed (with seal) by the staff of the company. Based on the study done, the student will submit a report to the guide within a weeks' time along with the logbook. In case of any problems, the student should reach out to the supervisor immediately |  |  |  |  |  |
| Instructions to the Supervisor |  |  |  |  |  |
| The supervisor should establish contacts with the place of training. A routine follow up has to be done with the student once in two or three days. Problems, if any faced by the student should be sorted out immediately. |  |  |  |  |  |


| Training Report and Presentation |  |
| :--- | :--- |
| Training Report (30-50 pages) should be prepared by the student and submitted in a month's |  |
| time. At the end of the semester student should present the report with a power point presentation |  |
| Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.] |  |
| 1 | https://www.wikihow.com/Write-a-Report-After-an-Internship |
| 2 | http://mfe-iseah-kef.blogspot.com/2013/11/internship-daily-journal.html |
| 3 | https://www.academia.edu/25257761/Student_Internship_Logbook |
| 4 | https://www.indeed.com/career-advice/career-development/how-to-write-an-internship-report |
| 5 | https://valenciacollege.edu/students/internship/documents/ActivityLog.pdf |
| 6 | https://www.template.net/business/log/internship-time-log/ |



| Text Books |  |
| :---: | :--- |
| 1 | Pattern Cutting For Clothing Using Cad: How To Use Lectra Modaris Pattern Cutting <br> Software - Stott M, Woodhead Publishing Ltd, 2012 |
| 2 | Pattern Cutting And Making Up Revised Edition - Shoben M M, CBS Publishers and <br> Distributors, 2000 |
| 3 | Computer Aided Design \& Manufacturing (Test CAD Programs Inside), Sadhu Singh, <br> Khanna Publications, 1998. |
| Related Online Content [MOOC, SWAYAM, NPTEL, Websites etc.] |  |
| 1 | https://medcraveonline.com/JTEFT/various-approaches-in-pattern-making-for-garment- <br> sector.html |
| 2 | https://www.youtube.comwatch?v=jTWtQNTJt_A |
| 3 | https://www.youtube.comwatch?v=iX7O4X7O4fNQijA |



| Course Code |  | APPAREL MERCHANDISING | L | T | P | C |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| Core-X | 4 | 2 | - | 5 |  |  |
| Fundamentals of Merchandising | Syllabus | 2021 Onwards |  |  |  |  |
| Course Objectives: |  |  |  |  |  |  |

- To acquaint students with various marketing and merchandising procedures
- To enhance a skillful inspection procedures
- To improve the process flow of apparel industry knowledge.


## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Identify the process of merchandising in apparel sector. | K 2 |
| :--- | :--- | :--- |
| 2 | Generalize the process flow and planning for apparel production. | K 2 |
| 3 | List out the various processes and follow ups in apparel production. | K2 |
| 4 | Recognize the need for visual merchandising | K 2 |
| 5 | Predict the application methods of Visual Merchandising techniques | K 2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit:1 Merchandising

Merchandising: Introduction, Meaning- Apparel Merchandising- Organization structure of an apparel industry - Classification of Exporters - Rating or Grading of export houses - Classification of buyers - Export merchandising and retail merchandising - Company profile and its contents. Types of merchandiser - Functions of a merchandiser - Essential requisites of a good merchandiser Vendor sourcing, evaluation and development

\section*{| Unit:2 | Processes \& Planning |
| :--- | :--- |}

Process flow in apparel industry - Buyer sourcing \& communication - Enquiry - Order confirmation - order review and its importance - Planning \& programming: Master planning, Scheduling or route card - Factors for route card - programming for yarn, knitting, dyeing, stitching, sampling, accessories - Samples: Meaning \& importance - Types of samples - expedition of samples.

## Unit:3 Follow-ups

Inspection and its types - Testing - Check points before cutting - Pilot run or trial run and its importance - Approvals - Types of approvals - Shipping marks - Final inspection procedures - Self, Second and Third party inspection - Effective expedition procedures. Order sheet and its contents Packing list and its contents - Document formats: order sheet, packing list, invoice, Inspection and testing reports etc., - Assortment and its types. Documents recording and maintenance - Claims and reasons for claims - Factory audits - Buyers code of conducts.

## Unit:4 <br> Visual Merchandising

Visual merchandising, Visual display - Fashion communication - Visual / 3D visual -Elements of visual merchandising, Comparison of Visual Merchandising with Fashion Merchandising Visual merchandising as a communication tool, presentations in visual merchandising, Software used in merchandising, Merchandise Planning Software, buy ease software.

## Unit:5 $\quad$ Applications of Visual Merchandising

Applications of Visual Merchandising - Exterior, Interior, Trade show \& Fair, Fashion showDefinition, planning, budgeting, location, timings, selection of models, collection, set design, music, preparing the commentary, choreography, rehearsal.

| Text Book(s) |  |
| :---: | :--- |
| 1 | Daragho' Reilly, Jullian J. Gibbs, "Building Buyer Relationships"" |
| 2 | "Inside the Fashion Business", McMillan Publishing Co. |
| 3 | "Fashion Merchandising", Elian Stone, |
| 4 | Krishnakumar, M, "Apparel Merchandising-An integrated Approach", Abishek Publications, <br> 2010, |
| 5 | Jerry A \& Rosenau, "Apparel Merchandising", Fairchild Publications, London |
| 6 | Bose, "A: Streamline Your Export Paper Work", International Trade Form, Oct - Dec 1965. |
| 7 | Mary G.Wolfe, "Fashion Merchandising \& Merchandising", 4th Edition, The Good heart- <br> WillcoxCo., Inc, Illions, 2014. |
| 8 | Gini Stephens Frings, "Fashion- from Concept to Consumer", 9th Edition, Pearson Education <br> Ltd, Harlow, 2014. |
| 9 | Martin M. Pegler, "Visual Merchandising and Display", 6th Edition, Fairchild Books, UK. |
| 10 | Judy Shepard, "New Trends in Visual Merchandising - Retail Display Ideas that Encourage <br> Buying", Harper Design Publishers, 2013. |


| Course Code | FASHION BUSINESS STARTUP | L | T | P | C |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Core XI | 4 |  |  | 5 |
| Basic Procedures for Startup a Fashion Business |  | Syllabus |  | w |  |
| Course Objectives: |  |  |  |  |  |
| The main objectives of this course are to: <br> 1. Frame business concepts and solve challenging tasks. <br> 2. Create ideas and strategies in order to effectively bring a business concept into action. <br> 3. Understand financing and fund raising <br> 4. Capture opportunity and mitigate business risks. |  |  |  |  |  |
| Expected Course Outcomes: |  |  |  |  |  |
| On the successful completion of the course, student will be able to: |  |  |  |  |  |
| Infer ab | ss concept theories and its classificatio |  |  |  |  |
| Identify | ss opportuni | arket. |  |  |  |
| Genera | blem Solving tactics through business i |  |  |  |  |
| Summ | all scale business s |  |  |  |  |
| Predict t Support | ess Communication Ethics in Business an for Business Startup | utional |  |  |  |
| K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Crea |  |  |  |  |  |
| Unit:1 | ss Concept Theories |  |  |  |  |
| Framework of Business Theories - Economic Theory, Sociological Theory, Psychological Theory and Resource-Based Theory. Framework of Business Model - Social Development Model, Competency Model, Emerging Models of Corporate Entrepreneurship. Classification of Business - Environmenta Scanning, Need Assessment, Resource Assessment, Sources of Supply; Challenges of New Venture Strategies, Pitfalls in Selecting New Ventures, Critical factors for New Venture Development Sources of Finance and Problems. |  |  |  |  |  |
| Unit:2 Business Opportunity Identification |  |  |  |  |  |
| Business Plan Preparation and Project Financing; Need and Relevance of Business Plan; Marke Feasibility; Technical Feasibility; Financial Viability; Project Report Preparation. Identification Business Opportunities in the Context of Tamil Nadu - Industrial Policy; Skill Development fo Entrepreneurs; Business Incubation Centers; Start-up Policy Framework and Incentives |  |  |  |  |  |
| Unit:3 Business Identity |  |  |  |  |  |
| Identity search: Crises, Exploration, Stress, Choice; Identity Formation - Preparation, Building New Identity; Identity Establishment - Management, Role Stress, Identity Integration, Linkage Building; Exercises - TAT, Analyzing Imagery, Risk Taking Styles, Goal Setting Behavior; Creativity and Business Idea - Methods of Idea Generation - Creative Problem Solving through business identity. |  |  |  |  |  |

## Unit:4 Small Business Management

Definition of Small Business, an overview of Small, Medium and Large Industries.
Strategic Management: Vision, Mission and Objectives of small business, Environmental analysis
PEST Framework, Porter's 5 Forces Model, Internal Environment Analysis - SWOT Framework;
Competitive Strategies - Cost Leadership, Differentiation \& Focus; Value Chain Analysis.
Technical and Financial Aspects of Small Business; Importance of Selection Process and Technologies; Balancing the Resources to Optimize Costs; Financial Statement Analysis; Strategizing

- Expansion, Diversification, Modernization of small business.

| Unit:5 | Business Communication and Ethics in Business \& Institutional Support <br> System for Business Startup |
| :--- | :--- |

## Business Communication and Ethics in Business

Introduction to Communication in Organizations - Types, Process and Barriers of Communication; Professional Use of the Telephonic Interview, Group Discussion and Making Presentations. Effective Customer Care, Appropriate Mechanism for Handling Complaints, Negotiating with Customers, Business Etiquettes and Body Language. Business Ethics: An Overview; Ethical Decision-making Why Ethical Issues and Problems occur in Workplace; Managing Ethical Behavior in Workplace; Professional Ethics Vs. Values and Moral in Workplace.

## Institutional Support System for Business Startup

Sources of Finance for Short, Medium and Long Term; Venture Capital- Sources and Criteria, Financing Steps; External Resource Generation - Licensing, Franchising, Strategic Alliance, Joint Venture, Merger, Private Placements.

| Text Book(s) |  |
| :---: | :--- |
| 1 | Bygrave, W., \& Zacharakis, A. (2017) Entrepreneurship, 4th Edition (3rd Edition is ok too) <br> Wiley. |
| 2 | 2. Avraham Shtub, Michael Rich, (2019), Managing your startups new product development <br> projects, World Scientific Publishing company limited. |
| 3 | 3. Jonathan Sutherland, Diane Canwell, (2014), Key Concepts in Business Practice, Palgrave |
| 4 | Macmillan publications. |
| Related Journals |  |
| 1 | The Journal of Entrepreneurship - Sage publications |
| 2 | 2. The International Journal of Entrepreneurship and Innovation - Sage publications |
| 3 | 3. Strategic Entrepreneurship Journal - Wiley Online Library International |
| 4 | 4. Journal of Entrepreneurship and Small Business - Inter Science |


| Course code | INTERNATIONAL TRADE AND <br> DOCUMENTATION | L | T | P | C |
| :--- | :--- | :---: | :---: | :---: | :---: |
| MBEC-II | $\mathbf{4}$ | $\mathbf{1}$ |  | $\mathbf{4}$ |  |
| Basic Knowledge in International trade | Syllabus | $\mathbf{2 0 2 1}$ |  |  |  |
| Onwards |  |  |  |  |  |$|$

## Expected Course Outcomes:

On the successful completion of the course, student will be able to:

| 1 | Clarify firm establishment and its registration formalities. | K2 |
| :--- | :--- | :--- |
| 2 | List out the documents related to foreign trade. | K2 |
| 3 | Infer about the import procedures in trade business. | K2 |
| 4 | Generalize the legal implications in shipment and customs. | K2 |
| 5 | Explain the payment and delivery formalities in international trade business. | K2 |

K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create
Unit: $1 \quad$ Firm Establishment
Firm establishment: introduction - export promotion councils and their role - registration Formalities - RCMC -IE code - RBI code - garment classification and categories for various countries - quota - quota distribution methods - quota transfer.
Unit: $2 \quad$ Foreign Trade Documents
Foreign trade documents: need, rationale and types of documents relating to goods - invoice packing note and list - certificate of origin - certificate relating to shipments - mate receipt shipping bill - cart ticket - certificate of measurement - bill of lading - air way bill - documents relating to payment - letter of credit - types of L/C - bill of exchange - letter of hypothecation bank certificate for payment - document relating to inspection - certificate of inspection - GP and other forms.

## Unit: 3 Import Procedure

Import procedure : import license - procedure for import license - import trade control regulation procedure - special schemes - replenishment license - advance license - split up license - spares for after sales service license - code number - bill of entry

## Unit: 4 Shipment \& Customs

Shipment and customs: Pre shipment inspection and quality control - foreign exchange formalities Pre shipment documents - documentation terms - excise and customs clearance of export cargo shipment of goods and port procedures - customs clearance of import cargo. Post - Shipment formalities and procedures - claiming duty drawback and other benefits.

## Unit: $5 \quad$ Payment and Deliveries

Methods of payment in international trade; documentary collection of export bills, UCPDC guideline, Instruments of payments, Pre-shipment and post-shipment finance, Negotiation of documents with banks, Main Provisions of FEMA; Procedure and documentation for availing export incentives.

1 International Trade and Documentation, Edward G Hinkelman, Publisher: World Trade Press 2001.

2 Streamline Your Export Paper Work, Bose. A., Published by International Trade Form,Oct Dec 1965.
3 Export and Import Management, Aseem Kumar, Excel Publications, 2007.
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]
1 https://www.marketresearchreports.com/apparel-retailing
2 https://smallbusiness.chron.com/analysis-retail-apparel-industry-70514.htm
3 https://www.marketresearch.com/Consumer-Goods-c1596/Consumer-Goods-Retailing-c80/Apparel-Retailing-c 1093/


1. Break down analysis of different garments (Number of parts assembled)
2. Process flow chart for a garment assembling
3. Seam finishing details of each part of a garment.
4. Type of sewing machines needed for assembling different parts of a garment.
5. Machine Layout.
6. Prepare design process
7. Prepare tech pack

- Each Student should analyse10 ready to wear garments (kids wear/ men's wear/ women's wear).
- Designs may be inspired by national or international designer collection based on current trends.
- Students should prepare Garment Tech pack file.
- Garment tech pack file comprises all flat sketches, garment flow process details accessory and trims specification details and costing chart for single piece.




## LIST OF EQUIPMENTS REQUIRED FOR A BATCH OF 40 STUDENTS

| SEM | COURSE <br> CODE | COURSE | EQUIPMENTS |
| :---: | :--- | :--- | :--- |


| III | Core PracticalIII | Fibre to Fabric Science Practical | 1. PICK Glass -40 No. <br> 2. GSM Cutter-1 No. <br> 3. Beesley Balance -1 No. <br> 4. Crimp Tester -1 No. <br> 5. Electronic balance -1 No <br> 6. Microscope - 1 No. <br> 7. Density gradient column-1 No. <br> 8. Weighing balance -1 No. <br> 9. Conditioning Oven -1 No. <br> 10. Wrap reel-1 No. <br> 11. Yarn twist tester- 1 No. <br> 12. Lea strength tester- 1 No. |
| :---: | :---: | :---: | :---: |
| III | SBEC PracticalI | E-Designing Practical | 1. Desktop Computers - 40 No. (Installed with Illustrator, CorelDraw \& Photoshop Software) |
| IV | Core Practical-V | Textile Wet Processing Practical | 1. Beakers $50 \mathrm{ml}, 100 \mathrm{ml}, 250 \mathrm{ml} 500 \mathrm{ml}$, Each 20 No <br> 2. Water bath, Thermometers- 1 No. <br> 3. Stirrer-40 No. <br> 4. Printing screen, Wooden blocks <br> 5. Pilot padding mangle -1 No. <br> 6. HTHP Beaker dyeing machine -1 No. <br> 7. Fastness tester (Grey scale) for <br> Washing, Light, Perspiration \& Rubbing <br> 8.Printing table <br> 9. Weighing Balance <br> 10. Spatchula -40 <br> 11. Test Tube, Stand, Holder <br> 12. Measuring Jar <br> 13. Spirit Lamp <br> 14. Vessel Holder <br> 15. Basin <br> 16. Nail blocks <br> 17. Gloves <br> 18. Electric Stove <br> 19. Lauder- o - meter <br> 20. Dyes, Pigments \& Chemicals |
| V | SBEC- III | Computer Aided Pattern Designing Practical | 1. Desktop Computers - 40 No. (Multi user Garment CAD Software with access of 40 systems) |
| VI | SBEC-IV | Beauty Care Practical | 1. Hair Puff -10 No. <br> 2. Artificial Nail \& Kit - 10 No. <br> 3.Scissors - 10 No <br> 4. Hair dryer - 1 No. <br> 5. Hair Straighten - 1 No. <br> 6. Palettes- 10 No. <br> 7. Facial steamer - 5 No. <br> 8.Hydraulic Facial Chair- 1 No <br> 9.Bleaching Kit |


|  |  | 10.Gloves |  |
| :--- | :--- | :--- | :--- |
|  |  |  | 11.Wax sheet |
|  |  |  | 12.Eye brow thread |
|  |  | 13.Head Band |  |
|  |  | 14.Brushes kit |  |
|  |  | 15.Eye liner |  |
|  |  | 16.Rose water |  |
|  |  | 17.Moisturizing cream |  |
|  |  | 18.Sponge |  |
|  |  | 19.Shampoo |  |
|  |  | 20.Pedicure \& Manicure kit |  |
|  |  | 21.Water bowl |  |
|  |  | 22.Tiny stool |  |



## PERIYAR UNIVERSITY PERIYAR PALKALAI NAGAR SALEM - 636011

## DEGREE OF BACHELOR OF SCIENCE

 CHOICE BASED CREDIT SYSTEM
## Syllabus for B. SC. FASHION TECHNOLOGY ( SEMESTER PATTERN ) <br> ( For Candidates admitted in the Colleges affiliated to Periyar University from 2017-2018 onwards )

## REGULATIONS

## I. CONDITION

Candidates seeking admission to the first year degree of Bachelor of Science in Fashion Technology shall be required to have passed in any higher secondary course examination of the state board/CBSE/ICSE.

Pass in any Fashion/ Costume/Textile/Apparel related Diploma course is eligible to admit in direct second year of this UG Course.

## II. DURATION

The course for the degree of Bachelor Of Fashion Technology shall extend over a period of three academic years -6 Semesters and each semester normally consisting of 90 working days or 450 Hours.

## III. ELIGIBILITY

A candidate shall be eligible for the degree of Bachelor Of Science in Fashion Technology , if he/she has satisfactorily undergone the prescribed courses of the study for a period not less than 6 semesters in an institution approved by the university has passed the prescribed examinations in all the 6 Semesters.

## IV. SUBJECT OF STUDY

The subjects of the study for the B.Sc., Fashion Technology and the syllabus for the subjects are given in the annexure.

## V. REQUIREMENT OF EXAMINATION

The theory examinations will be conducted for 3 Hours by the university in the subjects prescribed for all the semesters in the month of November \& April every year.

The practical examinations will be conducted for 3 Hours by the university in all the subjects prescribed in every semester.

## VI. SCHEME OFTHE EXAMINATION

The scheme of examinations for the course is given in Annexure. All the practical examinations/ Project work shall be conducted \& evaluated internally by the institution themselves with internal and external examiners appointed by the university.

## B. Sc. FASHION TECHNOLOGY




SBEC- Skill Based Elective Courses
NMEC - Non Major Elective Courses
MBEC - Major Based Elective Courses

## B. Sc. FASHION TECHNOLOGY

## I. PASSING RULES

## $\in$ Theory Subjects

* $75 \%$ of the marks for external evaluation and $25 \%$ marks are allotted for internal evaluation.
* Candidate is demand to have passed to a subject, if he/she get a minimum of $40 \%$ of total marks in theory subjects with internal mark of 10 marks and external marks of 30 marks.
$\in$ Practical/Project
* $60 \%$ of the marks for external evaluation and $40 \%$ marks are allotted for internal evaluation.
* For practical subjects, the candidate should get minimum marks of 24 marks in external evaluation out of 60 and 16 marks in internal evaluation out of 40 .


## QUESTION PAPER PATTERN

a. THEORY :

Time: $\mathbf{3}$ Hours
Total Marks: 75 Marks
QUESTION PAPER PATTERN

| Unit | Section-A | Section-B | Section-C |
| :---: | :--- | :---: | :---: |
| I | Q. 1,2 | Q.11a, 11b, | Q.16 |
| II | Q. 3,4 | Q.12a, 12b | Q.17 |
| III | Q. 5,6 | Q.13a, 13b | Q.18 |
| IV | Q. 7,8 | Q.14a, 14b | Q.19 |
| V | Q. 9,10 | Q.15a, 15b | Q.20 |

## SECTION A (10 X2 $=\mathbf{2 0}$ )

ANSWER ALL THE QUESTIONS
SECTION B (5 X5 = 25)
Either or Choice ANSWER ALL THE QUESTIONS
SECTION C ( $\mathbf{3} \mathbf{~ X 1 0 ~ = ~ 3 0 ) ~}$
ANSWER ANY THREE QUESTIONS OUT OF FIVE

## INTERNAL ASSESSMENT

| TEST | $:$ | 15 |
| :--- | ---: | ---: |
| ASSIGNMENT | $:$ | 5 |
| ATTENDANCE | $:$ | 5 |
|  |  | $\mathbf{2 5}$ |
| $-\quad 10$ MARKS |  |  |
| $-\quad 30$ MARKS |  |  |
| $-\quad 40$ MARKS |  |  |

## a. PRACTICAL:

Time : 3Hours
SECTION A ( $\mathbf{1} \mathbf{~ X 2 0}=\mathbf{2 0 )}$
SECTION B ( 1 X40 = 40)

Either or Choice
Either or Choice

RECORD : 25
SAMPLES : 10
ATTENDANCE : 05
TOTAL : 40

PASSING MINIMUM (IA) 40\%
PASSING MINIMUM (UE) 60\%
PASSING MINIMUM TOTAL

- 16 MARKS
- 24 MARKS
- $\quad 40$ MARKS

Total Marks : 60 Marks
ANSWER ANY ONE
ANSWER ANY ONE
INTERNAL MARKS:
-

## B. Sc. FASHION TECHNOLOGY

## SEMESTER I

## CORE PRACTICAL I- PATTERN MAKING AND GRADING

I. Draft and grade the Patterns for the following
a) Sleeve

1. Plain
2. Puff sleeve at top and bottom
3. Bell sleeve
b) Collar
4. Shirt
5. Peter pan
6. Stand
c) Yoke
7. Simple
8. Partial
II. Designing and Drafting and grading basic apparel for

| a) | Children |
| :--- | :--- |
|  | $\in \quad$ Bib, Panty, Jabla |
|  | $\in \quad$ Summer Frock |
|  | $\in \quad$ Angel Top |
|  | $\in \quad$ A-line Frock |
| $\in$ | Sun Suit |

b) Women

E $\quad$ Saree Petticoat
$\in \quad$ Middi and Middi top
$\in \quad$ Blouse
$\in \quad$ Nighty
$\in \quad$ Salwar Kameez
c) Men
$\in \quad$ Full Sleeve Shirt
$\in \quad$ Pleated Trouser
$\in \quad$ S.B.Vest
$\in \quad$ Nehru Kurtha
$\in \quad$ Night Dress

## B. Sc. FASHION TECHNOLOGY <br> SEMESTER I <br> CORE PRACTICAL II - BASIC APPAREL DESIGNING PRACTICALS

1. Preparation of Samples for Seams and Seam Finishes.
2. Preparation of Samples for Hems.
3. Preparation of Samples for Fullness. (Darts, Tucks, Pleats, Gathers, Flares, Ruffles, Godets and Gathers)
4. Preparation of Samples for Facing and binding. (Any 3)
5. Preparation ofSamples for Plackets and fasteners. (Any 4)
6. Preparation of Samples for different Sleeves. (Any 3)
7. Preparation ofSamples for different Collars. (Any 3)
8. Preparation of Samples for different Yokes. (Any 3)
9. Preparation of Samples for different pockets (Any 3)

## B. Sc. FASHION TECHNOLOGY

## SEMESTER I

## ALLIED I - SEWING TECHNOLOGY

## Unit-I

Introduction to sewing, History of sewing machines, Sewing Machine - parts and functions of single needle machine, Tools for measuring, marking, cutting \& pressing. Selection of thread and needle for various types of fabric.

Unit-II
Classification of sewing machines -Single Needle Lock stitch Industrial model, Over Lock Machine, Zig Zag Multi Purpose Machine, Double Needle Machine, Bar Tack Machine, button hole making machine, button fixing machine, blind stitching machine, fabric examining machine. Machine attachments - care and maintenance of sewing machines.

## Unit-III

Basic sewing machines and associated work aids, simple automobiles. The use of components \& trims Labels and motifs, lining, Interlining, wadding, lace, braids \& elastics, Hooks and loop fastening, Seam binding and tape, Shoulder pad, Eyelets \& laces, Zip fastener, Buttons, Tack buttons, Snap fasteners and Rivets, Performance properties of components and trims. Sewing machines attachments - ( Hemmers, Ruffler, Binder, Tucker, cloth guide, zipper foot, gathering foot, feed cover plate, circular attachment). Common problem \& remedies

## Unit-IV

Fusing - Definition, advantages of using fusible interlinings, requirement of fusing, Fusing process. The means of fusing, Fusing equipments, Methods of fusing quality control in fusing. Alternative of fusible interlining. Pressing: the purpose of pressing, categories of pressing, means of pressing, pressing equipments and methods, pleating, permanent press. State of pressing.

## Unit-V

Stitching mechanism - needles, bobbin and bobbin case, bobbin winding, upper and cover threading, auxiliary hooks, throat plates, take-ups tension disc.

Feeding mechanism - drop feed, different fed, needle feed, compound feed, puller feed

## References:

1. The Technology of Clothing manufacture, Harold Carr abd Barbara Catham, Blackwell Science (1994)
2. Goswami, B.C. "Textile Yarns", Technology, Structure and applications", Mc graw Hill.
3. Chris Jefferys (2004), 101 Essential Tip- Basic Sewing, D.K. Publishing
4. Besty Hosegood (2006), The complete book of sewing, Dorling Kindersley Ltd., London.
5. Thomas Anna Jacob, "The art of sewing:, USB publishers New Delhi, 1994.
6. Readers Digest Sewing book.

## B. Sc. FASHION TECHNOLOGY

## B. Sc. FASHION TECHNOLOGY

## SEMESTER II

## CORE I - FIBRE TO YARN SCIENCE

## Unit-I

Introduction to textile fibres - definition, classification of fibres, manufacturing process, physical and chemical properties and end uses of natural fibres-cotton, linen, wool \& silk and jute. Polyester, nylon.
Unit-II
Man made fibres - polyester, nylon, acrylic, spandex, viscose, rayon and tencel.

## Unit-III

Introduction to ginning -objectives - types, working principle of knife roller gin, blow room process objects of mixing, objects of blow room, working principles of axi-flow cleaner, kirschner beater, lap forming unit (scutcher)- cleaning efficiency.

## Unit-IV

Sequence of spinning process - objective and working principles of blow room, carding, draw frame and comber-objects and working principles of simplex and spinning (Ring Frame)
Unit-V
Yarn - definition, classification, simple, fancy threads and sewing threads manufacturing process, yarn twist-classification of twist, yarn count. Identification of yarn count.

## References:

1. Corbman B.P Fibre to Fabric, International Students Edition Mc Graw Hill Book

Co- Singapore, 2000
2. Spun Yarn Technology, Eric Oxtoloy, Butter work Pub UK 1987
3. Technology of spinning WD Klcin, Textile Institute

## B. Sc. FASHION TECHNOLOGY

## SEMESTER II

## ALLIED PRACTICAL I - BASIC DRAPING PRACTICALS

I. Prepare the following samples using the Draping Method

Basic bodice - Front and Back
Dart Manipulation
Pleats, Darts, Tucks and Gathers
II. Neckline variations
$\in \quad$ Boat neck
E Drawstring
$\in$ Cowl
$\in \quad$ Key hole
$\in \quad$ Halter
III. Armhole variations

- Square
- Round
- V Shape
IV. Waistline variations
V. Skirts-
- Flared skirt
- Gore skirt
- Pleated skirt
- Hip yoke skirt
- Umbrella skirt


## B. Sc. FASHION TECHNOLOGY

## VI. Collars -

- Shirt Collar
- Stand Collar
- Peter Pan collar
- Shawl collar cut in one piece with front waist
- Tie tying techniques -5 methods


## VII. Sleeves -

- Basic sleeve
- Puff sleeve
- Bell Sleeve
- Leg - o - Mutton
- Petal sleeve
- Raglan sleeve
- Kimono sleeve


## VIII . Design the following garment by draping Techniques

- Create any one of garment for a girl child - street wear
- Create any one of garment for a boy child - casual wear
- Create any one of garment for a teenage girl - party wear
- Create any one of garment for a teenage boy - formal wear


## B. Sc. FASHION TECHNOLOGY

## SEMESTER II

## CORE PRACTICAL III- FIBRE TO YARN SCIENCE PRACTICAL

I. Fibre Testing :

Identification of textile fibres by
a. Microscopical Test
b. Solubility Test
c. Burning Test
II. Yarn Testing:
a. Analysis of blend ratio of yarn
b. Determination of

1. Yarn count
2. Yarn Twist
3. Lea Strength
4. CSP calculation
5. Fabric Count

## B. Sc. FASHION TECHNOLOGY

## SEMESTER II

## ALLIED PRACTICAL II - BASIC ILLUSTRATION AND SKECTCHING PRACTICALS

## Prepare sketches for the following

1. Different types of collar, Sleeve, Neck line, skirts.
2. Different types of ladies tops, Shirt, Pant(Full and half), Chudidhar
3. Different types of Accessories - Bags, footwear, hats etc
4. Different types of Ornaments
5. Facial features - Eyes, nose, lips ears
6. Face ,hands legs - Different positions
7. Lay figure $-71 / 2$ head
8. Fashion figure $-8,10,12$ head.

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## CORE II- FABRIC SCIENCE-I

## Unit - I

Weaving - Definition - process sequence of weaving preparatory process. Warp winding - objectives warping, sizing, weft winding- objectives - pirn winding machine

## Unit-II

Looms - classification of loom, basic loom, mechanism , basic elements of woven design - design, draft and peg plan. Types of drafting plan.

Unit-III
Plain weave - modification of plain weave - characteristic features and end uses. Twill weave modification of twill weave - characteristic features and end uses. Satin weave, sateen weave characteristic features and end uses .

Unit-IV
Honey comb, huck - a - back, mock leno- characteristic features and end uses
Complex weave structure - double cloth, extra warp, extra weft, pile fabric - characteristic features and enduses.

Unit-V
Shuttle less looms - airjet, water jet, Repier, projectile loom. Difference between shuttle \& shuttle less loom

Reference:

1. Gokerneshan. N (2009 weaving Repaartion Technology, Abisheck Publication, Chandigarh
2. Murphy.W.S (2001) Handbook of weaving .Abhishek Publications, Chandigarh
3. Fabric Science $5^{\text {th }}$ Edition, Joseph J Pretal, Fairchild Publication. New York 1990.
4. Mechanism of weaving, N.N. Banner. J.I Vol-I \& II Textile Institute
5. Principles of weaving, Mark and Robinson, Textile Institute Manchester

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## CORE III - CLOTHING CARE

## UNIT-I

Water- hard and soft water, methods of softening water. Zeolite or Base exchange method. Determination of water hardness. Laundry soaps - Manufacture of soap and methods, composition of soap, types of soap, soap less detergents, chemical action, detergent manufacture, advantages of detergents. Difference between soap and detergents.

## UNIT-II

Laundry equipment and reagents: Study of laundry equipment and laundry reagents - soaps - detergents cleaning action of soaps, indigenous cleaning agents - rita nut - shikakai - green gram - bran solution study of modern and industrial cleaning agents

## UNIT III

Stiffening Agents: Study of stiffening agents -purpose of stiffening-classification of stiffening Agents preparation and uses of stiffeners- natural and commercial starches - preparation of starch for use - bleaching agents - blueing and tinting agents and their application -optical whiteners .

## UNIT-IV

Washing Machine And Care Labels: Study of different types of house hold/industrial washing machinerotary - swirling - pressure - tumble wash etc; the various systems of care labeling-washing instruction. bleaching instruction-drying instruction-ironing instruction-dry cleaning instruction. placement of labels on garments.

## UNIT-V

Stain Removal: Principles of laundering - stain removal - various solvents for stain removing blood, tea, rust; oil/grease etc. - different methods of washing - application of friction by hand rubbing - scribing -tumble wash. General rules and ways of stain removal.

## References

1. Dantyagi S., "Fundamentals of Textile and Their Care", Oriental Longmans Ltd, New Delhi, 1996
2. Denlkar, "Household Textiles and Laundry Work", Atma Ram and Sons, Delhi, 1993
3. Neomi D'Souza, "Fabric Care", New Age International Publisher, 1998
4. Davis, "Laundry and Clothing Care", Drama Book Publishers, 1995

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## ALLIED II - FASHION DESIGNING

## UNIT I

Terms related to the fashion industry - fashion, style, fad, classic, and collection, chic, Custom made , mannequin, fashion show, trend, forecasting, high fashion, fashion cycle, haute couture, fashion director, fashion editor, line, knock-off, avantgarde, bridge, buying house, apparel, fashion merchandising, pret - a porter.

## UNIT II

Design- definition and types - structural and decorative design, requirements of a good structural and decorative design. Elements of design - line, shape or form, colour, size and texture. Application of structural and decorative design in a dress, selection and application of trimmings and decorations. Principles of design- balance - formal and informal, rhythm- through repetition, radiation and gradation, emphasis, harmony and proportion. Application of principles of design in a dress.

## UNIT III

Colour- definition, colour theories- prang colour chart and munsellcolour system, Dimensions of colourhue, value, and intensity. Standard colour harmonies- application in dress design. Colour in principles of design- application of the same in dress design.

## UNITIV

Designing dresses for unusual figures becoming and unbecoming for the following figure types-Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face, prominent chin and jaw, prominent forehead.

## UNIT V

Wardrobe planning for different age groups, factors influencing wardrobe selection, Fashion and season, Designing dresses for different occasions - business meetings, parties/ dinners, evenings/leisure hours, marriage functions, sports, uniforms for civil service, airhostess, hoteliers, schools - girls and boys.

## B. Sc. FASHION TECHNOLOGY

## Reference:

1. Fashion - From Concept to Consumer-Gini Stephens Frings, 6 th edition, Prentice Hall (1999).

2 . Inside the Fashion Business - Bennett, Coleman \& Co, Mumbai (1998)
3. Art and Fashion in Clothing Selection - Harriet T, Mc Jimsey, The Iowa state University Press, Ames, Iowa (1973
4. Inside the Fashion Business- Heannette A Jarnow et-al, macimilan Publishing Company, New York.
5. Art and Fashion in Clothing Selection - Mc Jimsey and Harriet, Iowa State University Press, Jowa.

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## CORE IV- FABRIC SCIENCE PRACTICALS

Analysis of following fabrics for Design, Draft, Peg Plan, and Ends per inch and Picks per inch, Yarn count, Yarn crimp, Cover factor \& Weight per square yard of fabrics.

1. Plain weave and its derivatives
2. Twill weaves $-2 / 1,3 / 1$.
3. Satin / Sateen
4. Honey comb
5. Huck - a - back
6. Crepe weaves
7. Extra Warp
8. Extra Weft
9. Mock leno
10. Pile weave
11. Fancy weave
12. Single Jersey knit
13. Interlock knit
14. Rib

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## ALLIED PRACTICAL III- FASHION DESIGNING PRACTICALS.

1. Prepare the following Charts
$\in \quad$ Prang colour chart
E Value Chart
$\in \quad$ Intensity Chart
2. Illustrate garment designs for the Elements of Design
$\in \quad$ Line
$\in$ Colour
$\in \quad$ Texture
$\in \quad$ Shape or form
$\in \quad$ Size
3. Illustrate garment designs for the Principles of Design
$\in \quad$ Balance in dress
$\in \quad$ Harmony in dress
$\in \quad$ Emphasis in dress
$\in \quad$ Proportion in dress
$\in \quad$ Rhythm in dress
4. Illustrate the colour harmony in dress design
$\in \quad$ Monochromatic colour harmony
E Analogous colour harmony

E Complimentary colour harmony
$\in \quad$ Double complementary colour harmony
$\in \quad$ Split complementary colour harmony
E Triad colour harmony
5. Application of colour and principles of design in dress

E Harmony through colour
$\in \quad$ Emphasis through colour
$\in \quad$ Proportion through colour
$\in \quad$ Rhythm through colour
$\in \quad$ Balance through colour
6. Designing dresses for figure irregularities- becoming and unbecoming Stout figure, thin figure, slender figure, narrow shoulders, broad shoulders, round shoulders, large bust, flat chest, large hip, large abdomen, round face, large face, small face, prominent chin and jaw, prominent forehead.

## References:

1. Fashion Sketch Book - Bina Abling, Fair Child Publications, New York Wardrobe
2. Strategies for Women-Judith Rasband, Delmar publishers London Fundamentals of
3. Textiles and their Care- Susheela Dantyagi, 5 th edition,. Orient Longman Ltd New Delhi
4. Inside the Fashion Business- Heannette A Jarnow et-al, macimilan Publishing Company, New York.
5. Art and Fashion in Clothing Selection - Mc Jimsey and Harriet, Iowa State University Press, Jowa.

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## CORE PRACTICAL V -CHILDREN'S APPAREL PRACTICALS

## Designing and Drafting the following children's garments.

1. Bib -Give some variation in outline shape or surface design
2. Panty-Plain and variation in shapes.
3. Jabla-With sleeve and opening
4. Knickers - with elastic opening
5. Baba suit/Romper-knickers with chest piece attached
6. A line frock-double pointed dart, facings at neckline and armhole and strap attach in hip.
7. Summer frock - without sleeve and collars, suspenders tied at shoulder
8. Yoke frock - with yoke, with sleeve, Gathered, flared, with collars
9. Boy's shirt-shirt collar, pocket
10. Boy's short-fly open with buttons, side pocket, pleats and dart.

## B. Sc. FASHION TECHNOLOGY

## SEMESTER III

## NMEC-I - FUNDAMENTALS OF TEXTILES

## Unit-I

Introduction to the field of Textiles - classification of fibres - natural and chemical - primary and secondary characteristics of textile fibres.

## Unit II

Manufacturing process, properties and uses of natural fibres - cotton, linen, jute, pineapple, hemp, silk, wool, hair fibres, Man-made fibres - viscose rayon, acetate rayon- nylon, polyester, and acrylic.

## Unit III

Spinning - definition, classification - chemical and mechanical spinning - blending, opening, cleaning, doubling, carding, combing, drawing, roving, spinning-Yarn classification - definition classification simple fancy yarns, sewing threads and its properties .

## Unit IV

Woven - basic weaves- plain twill, satin, fancy weaves - pile, double cloth, leno, swivel, tappet, dobby and jacquard, weaving technology-process sequence-machinery details.

## Unit $V$

Non- woven- felting, fusing, bonding, lamination, netting, braiding and calico, tatting and crocheting

## REFERENCES:

Textiles - Fiber to Fabric, Corbman B.P. International student's edition, McGraw Hill book Co, Singapore 1985.

Sewing and knitting-A Reader"s Digest Step- by-step guide, Readers Digest, New York 1993.
Fabric Science 5th Edition, Joseph J pretal, Fairchild publication"s New York 1990
Technology of dyeing and printing - V.A Shenai, Sevak publication, Mumbai.

## B. Sc. FASHION TECHNOLOGY

## SEMESTER IV

## CORE IV - NON WOVEN \& TECHNICAL TEXTILES

Unit - I
Non - woven - Introduction - definition, classification and scope and application of non woven fibres used- web preparartion, opening, cleaning machine, production of parallel laid web, cross laid and random laid web.

## Unit - II

Bonding methods - mechanical, thermal, chemical/ adhesive, melt blown and spun lace techniques. Finishing of bonded fabrics. Fusing -methods of fusing. Braiding - methods of braiding. Netting methods, lacing.

## Unit - III

Technical Textiles - Introduction, definition, scopes \& importance and uses. Application of Agro Tech,Build Tech,Cloth Tech, Home Tech, Indu Tech, Medical Tech, Sports Tech, Pack Tech, Mobile Tech, Protect Tech, Geo Tech.

## Unit - IV

Medical Tech, Sports Tech, Protective - introduction, general properties and end uses.

## Unit - V

Smart \& intelligent textiles, Smart - Active smart, passive smart \& ultra smart, Intelligent - PCM, SMP, Chromic \& conductive materials

## References:

E Non woven bonded fabrics - Lunenscholss J and W Albrocht, Ellis Horwood, London 1985
E Non-Wovens - Arul Dahiya, MG Kamath, Raghavendra R Hedge and Monika Kannadnguli
$\in \quad$ Geo Textiles - NWM John, Blackir London
$\in \quad$ Family Clothing - Tate and Glisson, John Wiky and Sons., Illinas, 1963
E Technical Textiles - Anand and A.R. Horracks, Textile Institute

## B. Sc. FASHION TECHNOLOGY

SEMESTER IV

## ALLIED III - FASHION CLOTHING AND PSYCHOLOGY

## UNIT - I

Origin of Fashion - Importance of fashion - Development of fashion, Components of fashion -, Design Details, Texture ,Color and Silhouette. Types of silhouette - Natural Body, Slim line, Wedge , Hour Glass, Extreme Volume Silhouette.

## UNIT - II

Fashion Focus - The designers Role, The Manufacturers Role, The Retailers Role . Scope of Fashion Business - Primary Level, The Secondary Level , The retail level and the Auxiliary level. Study about International Designers - Fashion related cycle and theories.

## UNIT - III

The Movement of Fashion - Factors influencing fashion movement -Accelerating factors, Retarding factors, and Recurring fashions. Predicting the movement of fashion.

## UNIT - IV

Types of designers - High fashion Designer, Stylist, and Freelance Designer. Sources of design inspiration.

Indian fashion Designers- Manish Malhothra, Ritu kumar, Ritu berri, Tarun Tahilani, Wendell Rodricks, Abu Jani and Sandeep Khosla, JJ Valaya, Rina Dhaka, Manish Arora, and Rohit Bal.

UNIT - V
Study of International Fashion centers - France, Italy, England, Germany, Canada, New York .Study of International Fashion Brands - Women's Wear, Men's Wear, Kids Wear,Sports Wear, Cosmetics and Accessories.

## TEXT BOOKS:

1. Elaine stone. 2001. The Dynamics of Fashion. Fair child publications, New York.
2. Gini Stephan Friengs . 1999. Fashion from concept to consumer. [Sixth Edition]. Prentice Hall.

## B. Sc. FASHION TECHNOLOGY

## REFERENCE BOOKS:

1. Ellen Diamond. 2007. Fashion Retailing. Pearson Education. INC and Dorling Kinderley Publishing, Delhi.
2. Kitty G, Dickerson. 2005. inside the fashion Business. Pearson Education. INC and Dorling Kinderley Publishing, D

## B. Sc. FASHION TECHNOLOGY

## SEMESTER IV

## CORE V - WET PROCESSING

## UNIT-I

Wet processing-meaning-process sequence. Object and methods in singeing, Desizing, Scouring, Wool carbonizing, Weighting of silk. Wet processing equipment - kier -J box - pad roll -U box - Roller bed Conveyor steamer-stenter.

## UNIT-II

Bleaching -objects-types- Hypo chlorites - Hydrogen peroxide - sodium chlorite. Equipments and chemicals for bleaching of cotton, viscose, cotton/ viscose, polyester/ cotton. Mercerization - objects Methods - types of mercerization-chain and chainless methods.

## UNIT III

Dyeing - properties of dyes, Characteristics of dyes, classification of dyes, Direct, Vat, Sulphur, reactive, naphthol, acid, Basic, disperse dyes and natural dyes.dyeing of fiber blends.Dyeing machines - fiber, yarn -cheese dyeing.

## UNITIV

Fabric dyeing machines-working principles - hank package - jigger- HT Beam, jet - padding mangles. Colour fastness to washing - light, rubbing \& perspiration, computer colour matching-colour matching cabinet.

## UNIT-V

Wet processing of Knitted fabric - scouring - Bleaching- dyeing - printing- calendaring-Shrink controlling steaming. Wet processing of fiber blends. Briefly study of eco friendly dyeing and Effluents treatments-BOD,COD-primary and secondary treatment process.

## References:

1. Paters R.H.Textile Chemistry" Vol. I,II Textile institute, Manchester 1970.
2. Shenai V.A." Technology of textile processing" Vol. III, V,VII Sevale publications, Bombay 1981.
3. Lewis D.M."Wool Dyeing" SDC publications England 1990.
4. Nalankilli.G., Chemical Preparatory Process, NCUTE Publication, New Delhi.
5. Manivasakam.N. Treatment of Textiles Processing, Effluents, Sakthi Publications, Coimbatore, 1995.

## B. Sc. FASHION TECHNOLOGY

SEMESTER IV
CORE PRACTICAL VI - WOMEN'S APPAREL PRACTICAL

## Design, Draft and construct the following garments.

1. Middy - Variation in panel, bottom round
2. Middy Top-Front open, single dart, with or without collar and variation in sleeves.
3. Night dress - With or without yoke, variation in Sleeves, attaching trimmings.
4. Maxi-Variation in neck with or without sleeve and attaching trimmings.
5. Salwar - Gathered waist with tape or elastic, bottom design variation.
6. Kameez-Fashioned neck, variation in sleeve.
7. Ladies pant - Variations in bottom zip attached, patch pocket.
8. Ladies shirt-Half open collar attached, half or full sleeve.

## B. Sc. FASHION TECHNOLOGY

SEMESTER IV

## CORE PRACTICAL VII - WET PROCESSING-PRACTICALS

Preparation of samples for Processing

1. Desizing(acid \&enzyme)
2. Scouring
3. Bleaching
4. Mercerizing

Dye the given fabric using suitable dye

1. Direct Dye
2. Reactive Dyes(Hot \&Cold brand)
3. Sulphur Dyes
4. Vat Dyes
5. Disperse Dyes
6. Acid Dyes
7. Basic Dyes
8. Vegetable Dyes (any one)

## B. Sc. FASHION TECHNOLOGY

SEMESTER IV

## SBEC I - EMBROIDERY PRACTICALS

A. Prepare samples for the following

1. Hand embroidery -20 stitches -10 samples
2. Machine embroidery -7 stitches -3 samples.
B. Traditional surface ornamentation practices with two to four variations in the following,
3. Kantha of Bengal
4. Chikankari work
5. Kasuti
6. Zardosi
7. Kutch work
8. Mirror work
9. Aari work
10. Phulkari work .

## B. Sc. FASHION TECHNOLOGY

## SEMESTER IV

## NMEC II - FUNDAMENTALS OF DESIGNING

## UNIT-I

Types of Design - Structural and Decorative design, Requirements Of Structural And Decorative Design, Elements of Design - Line, Size, Shape, Color and Texture.

## UNIT - II

Principles of Design - Balance, Emphasis, Proportion, Rhythm, Harmony and its types. Application of principles of design in dress design.

UNIT-III
Color- Definition, Color theory - Prang color system, Dimension of color- Hue, Value and Intensity. Color schemes in Prang color System.

## UNIT-IV

Figure Irregularities - Stout figure, Thin figure, Broad shoulders, Narrow Shoulders, Faces - Round, Large, and Small face.

UNIT-V
Wardrobe Planning - Factors to be considered while selecting clothes for different age group - Men, Women and Children.

## TEXT BOOK:

1. Sumathi, G.J .2002. Elements of Fashion and Apparel Design. Newage International (P) Ltd Publishers.

## REFERENCE BOOK:

1. Harriet Mc jimsey. 1973. Art and Fashion in Clothing Selection. [Second Edition]. Iowa State University Press, Ames.

# B. Sc. FASHION TECHNOLOGY <br> SEMESTER V <br> <br> CORE VI - COMPUTER \& TEXTILES IN GARMENT DESIGN 

 <br> <br> CORE VI - COMPUTER \& TEXTILES IN GARMENT DESIGN}

## UNIT-1

Introduction to computers -Organization of Computers -Input Unit, Output Unit, Central Processing Unit ,Memory Devices, Working Principles of Printer-Scanner, Digitizer \& Plotter.

## UNIT-2

Computer Application in Textile Designing- Weaving- Softwares used - Types of woven Design-Dobby and Jacquard- Techniques Used. Knitting -Softwares used - Types of knitting. Printing - Creation of Printed Design-Simulation Technique.

## UNIT-3

Computer Application in Fashion Designing-Design Creation- Theme Rendering- 3D Modeling- Body Scanning-Texture Mapping-Design Studio-Fashion Studio- Fashion Multimedia Concepts.

## UNIT-4

Computer Application in Pattern Making- Process involved in Pattern Making Grading-Marker Planning-Laying-Cutting-Labelling-Duplicating. Computerized Sewing Machine.

## UNIT-5

Computer Aided Manufacturing - Concepts of Computer Integrated Manufacturing - Definition and Functions of CAD, CAM, CIM, CAA, PDC . Computerized Embroidery Machines. Computerized color Matching System. Brief study of Designing Soft wares used in textile industry.

## References

1. CAD/CAM computer aided design and manufacture, Groover MP and E.W.Zinimmers, prentic hall, India 1984.
2. Computers in fashion industry, Taylor P, Heinemann publications 1990.
3. Computer aided design and manufacture, Bezant C.E, Ellis Horwood, England,1983. 4. CAD in clothing and textiles, Winfred Aldrich, Blackwel science, 1994.
4. Computer aided drafting and design-concept and application, Veinsinet DO, 1987.
5. Computer Fundamentals - PK Sinha, BPB Publications, Delhi (1992)
6. Pattern Grading for Women's Cloths The Technology of sizing - Gerry Cooklin, Blackwell Science Ltd (1990)

## B. Sc. FASHION TECHNOLOGY <br> SEMESTER V <br> CORE VII - TEXTILE FINISHING

## UNIT - I

Finishing - Introduction - Objects of finishing, Importance of finishing, Classification of finishes, Advantages of finishing.

## UNIT- II

Mechanical Finishes - Beetling, Shearing, Calendaring, Tentering, Moiering, Embossing, Glazing, Napping, Chemical Weighting Of Silk, Sizing, Sanforizing, Schreinering, Wrinkle free finish.

## UNIT - III

Functional Finish - Resin finish, Water Proof finish, Water Repellent finish, Antimicrobial finish, Flame Retardant finish, Soil Release finish - Process and Recipe, Types and Method of Fusing, Welding and Adhesives, Molding.

## UNIT - IV

Advanced Functional Finish - Stiff finish - Process and Recipe, Softening - Silicone finish, Denim finish, Stone Wash finish, Anti - Pilling finish, Anti Mildew finish.

## UNIT-V

Special Finishes On Garments - Finishing of Woven / Knitted garments - Stone less, Stone Wash effects Mud wash, Ion wash, Chalk wash, Water resistant Breathable finish, Bio polishing, Leathery Finish, Protective Finishes -Deodorizing, Cool Finish and Thermostat finishes.

## TEXT BOOKS:

1. Shenai and Saraf. 1995. Technology of Textile Finishing. Sevak publications.
2. Nallangilli and Jayaprakasam. 2005. Textile Finishing. S.S.M Institute of Textile Technology.

## REFERENCE BOOK:

1. Prayag. 1996. Technology of finishing. Shree J. Printers, Pune.

## B. Sc. FASHION TECHNOLOGY

## B. Sc. FASHION TECHNOLOGY <br> SEMESTER V <br> CORE VIII- TEXTILE PRINTING

## UNIT-I

Printing - Introduction to printing, differences between printing and dyeing, preparation of fabric for printing - cotton, linen, polyester, wool and silk, methods of printing, preparation of printing paste, selection of thickening agents.

## UNIT-II

Direct printing : Block printing - Brief History, Preparation of design, Blocks, table, print paste and printing process Stencil printing - Brief history , preparation of fabric, stencils (For one or more colour) Materials used for preparing stencils, process involved and techniques used .

## UNIT-III

Screen printing - brief history, Flat screen and Rotary screen printing , Preparation of screen , print paste , screen printing process, Discharge printing - chemicals used, process involved

## UNIT-IV

Resist printing : Brief history, Batik printing wax used, Equipments required, process sequence and techniques used. Tie and dye-Brief history, Equipments required, process sequence and techniques used.

## UNIT-V

Other printing methods : Ink jet printing, Heat transfer printing, photo printing

## References:

1. Textiles-Ninth edition,Sara J Radolph and Anna L Langford, Prentice hall, New Jersey (2002).
2. Textile processing-J LSmith, Abhishek publications, Chandigarh (2003).
3. Textile Chemistry - Peters R H, Vol I, \& II, Textile Institute Manchester (1970)
4. Beginners Guide to fabric dyeing and printing - Stuart \& Robinson, Technical books,London (1982).
5. Thickening agents and Emulsion thickenings in textile printing - Herbert Barthm, New Delhi (1994).

## B. Sc. FASHION TECHNOLOGY

## SEMESTER V

## CORE PRACTICAL VIII- COMPUTER \& TEXTILE IN GARMENT DESIGN PRACTICALS

I. Application of types of Design in garments-Structural Design, Decorative Design, Geometrical Design, Abstract Design
II. Application of Colour Harmony in Designing Garments -Monochromatic Colour harmony, Analogus Colour harmony, Single Complementary Colour harmony, Double Complementary Colour harmony, Triad Complementary Colour harmony, Tetrad Colour harmony, Neutral Colour harmony.
III. Application of Elements of Design in garments-Line, Size, Shape, Colour.
IV. Application of Principles of Design in garment-Balance, Rhythm, Emphasis, Harmony, Proportion
V. Design Garments for the following

1. Party Wear-Men \& Women Garments
2. Casual Wear- Men \& Women Garments
3. Sports Wear- Men \& Women Garments
VI. Create a design using Photoshop Software
i) Create visiting Cards invitation and certificate using Image Mixing
VII. Prepare Pattern, Grading and Marker Efficiency for the following Garments using CAD Software.
4. Children Garment-Jabla, Boys Shirt.
5. Women's Garment-Maxi, Salwar\& Kameez.
6. Men's Garment - T - Shirt, Pleated Trouser.

## B. Sc. FASHION TECHNOLOGY

## SEMESTER V

## CORE PRACTCAL IX - TEXTILE PRINTING PRACTICAL

1. Printing with fabric paint
2. Texture printing by combining any 3 different types of textures.
3. Printing of cotton using block and screen printing (2samples each)
4. Printing of tie and dye and batik ( 2 samples each)
5. Tie and dye of cotton with direct dyes (resist print)
6. Batik print on the cotton fabrics (resist print)
7. Printing on the polyester fabrics by pigment colour
8. Printing on cotton fabric with natural colours

## B. Sc. FASHION TECHNOLOGY

## SEMESTER V

## CORE PRACTCAL X - MEN'S APPAREL PRACTICAL

## Design, Draft and construct the following Men's garments.

1. Slack Shirt - with collar, Half Sleeve, Patch pocket.
2. Full sleeve shirt - shirt collar, patch pocket, full sleeve with sleeve placket and cuff.
3. S.B. Vest- With / without collar, No sleeve, Fancy button attached.
4. Pleated Trouser - Pleat in front, Darts at back, side pocket, fly with button /zip, Belt with adjustable strap.
5. House coat-with collar and full sleeve without cuff.
6. Kalidhakurtha-Kali piece, side pocket, round necks, half open.
7. Pyjama - Waist elastic and tape attached, fly.
8. Men's pant- front opening with zipper placket, side pocket variation in bottom design

## B. Sc. FASHION TECHNOLOGY

## SEMESTER V

## MBEC I -GARMENT QUALITY AND COST CONTROL

## Unit I

Basics of Quality Control Definition and Scope of Quality Control - Establishing Merchandising Standards-Establishing Raw Material Quality Control specifications-Quality Control of Raw Material.

## Unit II

Quality Control System Establishing Processing quality specification-Training Quality Control PersonnelThe Quality Standard Control - Quality Control Inspection, Procedures for processing - Quality control of finished garments - Quality control and Government contacts - Quality Control for Packaging, Warehousing and shipping - Statistical Quality Control, Sampling plans - industry - wide quality standards.

## Unit III

Basics of Production control Function of Production control - Production, Analysis - Quality Specifications - Quantitative specifications - Scope of Apparel Manufacturing Activity - Coordinating departmental Activities-Distribution of Documents and Records.

## Unit IV

Production Control System Type of Control forms - Basic Production Systems -Principles for Choosing a Production System - Evaluating Production Systems - Flow Process Grids and Charts - Basic Flow Process Grid Construction - Flow Process Grids for Production control

## Unit $V$

Cost Control, Function of Cost Control: Types of Costs and Expenses - Apparel Manufacturing Cost Categories - Sales Cost Control - Purchasing Cost Control - Production Cost Control - Administration cost control - Cost Ratio Policies - the manufacturing Budget - Cash flow Control - Standard Cost Sheet, Break-Even Charts

## REFERENCES:

1. Patty Brown, Janett Rice,-Ready to wear apparel analysis, Prentice Hall,1998.
2. Salinger, Jacob Apparel, —Manufacturing Analylsisll, New York, Textile Books Futs, 2001
3. Introduction to Clothing Production Management, A.J. Chuter, Second Edition, Black Well Publishing, Second Edition, 2004.
4. Apparel Merchandising, Robin Mathew, First Edition, Book Enclave Publishing, 2008.
5. Textile Industry Development and Growth, Satish Tiwari, First Edition, Anmol Publications Pvt. Ltd., 2000.

## B. Sc. FASHION TECHNOLOGY <br> SEMESTER VI <br> CORE IX- FABRIC SCIENCE-II

## Unit - I

Different fabric forming methods-Comparison of weaving and knitting-Principles of weft and warp knitting -Comparison of weft and warp knitting - Classification of knitting machines -

Yarn passage diagram of a circular knitting machine - Knitting machine elements and description - Knitting cycle of latch needle with sinker.

## Unit-II

Knitting terms and definitions - Principal weft knit stitches - Knit, tuck and miss stitch formation and properties - Representation of weft knit stitches - Study of Basic weft knit structures - Needle gating Description of circular Rib \& Interlock knitting machine - Characteristics of basic weft knit structures Circular knitting GSM and production calculations.

## Unit-III

Single jersey knit fabric structures, their cam and needle order: Plain jersey, Pique, Thick pique, Honey comb, Pearl and Twill. Rib fabric structures, their cam and needle order: 1 x 1 rib, $2 \times 2$ rib, Drop needle, Royal rib, Polka rib, Double half cardigan, Double cardigan, Milano rib, Waffle, Flat back, Swiss double pique and French double pique. Interlock fabric structures, their cam and needle order: Interlock, Eight lock, Ottoman rib, Pin tuck, Texi pique and Ponte di Roma.

## Unit-IV

Jacquard knitting - Needle selection techniques - Pattern jack, Pattern wheel, Pattern drum and Computerized jacquard knitting machines - Brief study on specialty weft knit structures - Auto stripe yarn programming-Elastomeric yarn insertion and effects-Knitted fabric faults-Causes and Remedies.

## Unit-V

Flat Knitting - Yarn passage diagram of a flat knitting machine - Mechanical type Flat knitting machine Needle bed assembly - Racking, Carriage and Cam box arrangement - Transfer Stitch and Drop Stitch Thread diagram, effects and applications - Introduction to computer controlled Flat knitting machine. Concept of fully-fashioned machines and seamless knitwears. Introduction to warp knitting - Warp knitting terminologies - Open lap and closed lap. Knitting action of Tricot and Raschel machines. Comparison of Tricot and Raschel machine.

## B. Sc. FASHION TECHNOLOGY

## References:

1. D.B. Ajgaonkar, Knitting Technology
2. David .J.Spencer, Knitting Technology
3. Chandrasekara Iyer et al., Circular knitting technology
4. Dr.Samuel Raz , Flat Knitting
5. Dr.S.Raz, Warp Knitting Technology
6. Peter Lord et al., Fabric forming systems

## B. Sc. FASHION TECHNOLOGY

## SEMESTER VI

## CORE X - ORGANISATION OF GARMENT UNIT

## Unit-I

Entrepreneurship- Meaning definition and types, need for Entrepreneurs, qualities and types of Entrepreneurship. Difference between Entrepreneur and manager. Management-Definition Management as a process-Planning, organizing, Directing Controlling, Co-ordination.

## Unit-II

Institutions supporting entrepreneurs- DIC, NSIC ,SISI,SIPCOT, TII,KVIC, CODISSIA, COMMERICAL BANKS -SBI. Organizational structure of a garment unit -Hierarchical organization, production planning and control.

## Unit-III

Different department in a garment unit - Design department, Finance department, purchasing department, Production department, Organizing different sections - hierarchy Personnel involved in all the departments, nature of the job.

## UNIT-IV

Factory Design and layout - importance of factory design, factors affecting factory design, Types of buildings, (single and Multi -storey) -advantages and limitation. Factory layout - Process, Product and combined layout Design requirement - requirements relating to health, safety and welfare

## UNIT-V

Performance of Indian Garment Export, SWOT Analysis Setting up of garment unit for export market, ExportDocument, Export finance- Payment method, Export shipping Role of merchandiser in a garment unit

## REFERENCE;

1. Principles of management-Dinakarpagare, sultan chand and sons, delhi.
2. Entrepreneurship Development in India - Dr. C.B Gupta, Dr N.P. Srinivasan, sultan Chand and sons Delhi 1997.
3. Garment Exports - Darlie O Koshy (1997)
4. Introduction to clothing production management - AJ Chester 2nd Edition, Wrenbury Associates Ltd (1998).
5. The technology of clothing manufacture-Harold Carr and Barbara Latham, Blackwell Science (1994).

## B. Sc. FASHION TECHNOLOGY

SEMESTER VI

## CORE PRACTICAL XI - ACCESSORIES MAKING PRACTICALS

1. Hand bag - Any three types
2. Hat - Any two types
3. Bow - Decorative bow and formal bow
4. Belt - For boy and girl
5. Foot wear - Any three types
6. Purse and pouches - Any two types
7. Hair band and head bands - Any four types
8. Watches - Any two types

## B. Sc. FASHION TECHNOLOGY <br> SEMESTER VI

## MBEC II - FASHION \& VISUAL MERCHANDISING

## Unit I

Introduction to Visual Merchandising Visual merchandising and display; Purpose of visual merchandising; Store image; Target customers; Seasonal visual merchandise; Windows

## Unit II

Display and Display Settings Types of display; Promotion vs. institutional display; Type of display setting Attention drawing devices: Colour; Lighting; Line and composition; Scale; Contrast; Repetition; Humour; Surprise and shock;

## Unit III

Inspection and its types - Testing - Check points before cutting - Pilot run or trial run and its importance Approvals - Types of approvals - Shipping marks - Final inspection procedures - Self, Second and Third party inspection-Effective expedition procedures.

## Unit IV

Order sheet and its contents - Packing list and its contents - Document formats: order sheet, packing list, invoice, inspection and testing reports etc., - Assortment and its types. Documents recording and maintenance -Claims and reasons for claims - Factory audits - Buyer"s code of conducts.

## Unit $V$

Advertising- scope, importance, types, merits \& demerits; sales promotion, personal selling. Retail management. Export associations - Apparel Export Promotion Council - Journals and magazines related to apparel and textiles -Trade shows and Fairs - Participation in trade shows - Advantages of trade shows and fairs - Apparel \& Textile Trade shows and fairs in India.

## REFERENCES:

1. Jeannette Jarnow, Dickerson, Inside the Fashion Business, Prentice hall, USA.
2. Darlie Koshy, Effective export marketing of Apparel, Global business press, 1996.
3. Fashion Merchandising, Elian Stone,
4. Apparel Merchanidising, An integrated Approach, Krishnakumar, M, 2010, Abishek Publications
5. Apparel Merchanidising, Robin Mathew, Book Enclave Publishers, Jaipur

## B. Sc. FASHION TECHNOLOGY

## B. Sc. FASHION TECHNOLOGY

## SEMESTER VI

## SBEC II PRACTICAL - PORTFOLIO PRESENTATION VIVA VOCE

## Portfolio development and Presentation technique

1. To be planned for any 3 Occasion - Forecasting colors, Pattern and Fabric for the ensuing seasons based on International forecast.
2. Preparation of Mood board, Story board.
3. Fabric development chart - Collections of fabric Swatches and Colors.
4. Design development chart - Preparation of various Styles for Selected fabrics
5. Selection of Accessories
6. Final Presentation
7. Number of Garments in a Collection - 1 garment

## B. Sc. FASHION TECHNOLOGY <br> SEMESTER VI <br> SBEC III - BEAUTY CARE PRACTICALS

Do the following Experiments

1. Bleaching
2. Facial
3. Hair remover-threading, waxing
4. Hair style - any 3 styles
5. Hair cut - any 3 styles
6. Hair curl, Hair straightening, Hair coloring
7. Make up -Face makeup, bridal make up, party make up
8. Nail treatment - pedicure, manicure, nail art
9. Saree draping - any 3 styles
10. Visit to beauty parlour.
