

## 4.1 GARMENT DESIGN - II

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- - 6

### RATIONALE

The students should be able to design garments for different age groups, and occasions with proper selection of fabrics textures with latest trends. After going through this subject, the students will be able to design garments appropriately to customer's satisfaction and need.

### DETAILED CONTENTS

#### PRACTICAL EXERCISES

Creating designs for women by taking inspiration from various sources of nature, architecture, history etc. and rendering them in different textures and colour ways ; showing swatches and making them replicas.

1. Designing women wear

- Sari Blouses	-	2 sheets each
- Salwar-Kameez	-	
- Kurta/Phiran – Churidar Pyjama	-	
- Bridal wears (Different States)	-	
- Skirt-top	-	
- One-piece dress	-	
- Trouser tops/Capri	-	

2. Portfolio collection from above

3. Sketching Accessories: Bag, Shoes, Jewellery, Belts etc.

#### INSTRUCTIONAL STRATEGY

The students should be encouraged to visit fashion shows, fairs and exhibitions so that they are aware of the latest trends in garment design and prepare a file

## **RECOMMENDED BOOKS**

1. Fashion Drawing Designs; Magazine of Thailand, New Age Publisher, Delhi
2. Pattern Designs for Haute Couture Volume – I, New Age Publisher, Delhi
3. Fashion Drawing – The Basic Principles by Anne Allen and Julion Seaman, Haper and Row Publishers, New York
4. Latest Fashion Style by Winter Hiver, New Age Publisher, Delhi
5. Jasmine’s “New Look, On Indian Fashion Scene”, Haper and Row Publishers, New York
6. Lifestyles: Fashion Styles by Katheryn Samuel, McGraw Hill Book Co. Inc. New York.

## 4.2. PATTERN MAKING AND GRADING

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- - 6

### RATIONALE

The students are supposed to perform the jobs of pattern maker when engaged in garment manufacturing industry. After going through this subject, students will be able to manipulate different darts and increase or decrease any pattern proportions

### DETAILED CONTENTS

#### PRACTICAL EXERCISES

1. Dart manipulation by:
  - Slash and spread method
  - Pivot methodTwo patterns each
  
2. Dart manipulation into:
  - Single dart series
  - Two dart series
  - Multiple dart series
  - Single lines – princess and empire
  - YokesTwo patterns each
  
3. Control of fullness through
  - Pleats
  - Darts
  - Gathers
  - Tucks
  - Additional fullnessTwo patterns each
  
4. Developing patterns for children garments
  - frocks
  - Rompers/Jump suits
  - Skirts and topsThree patterns each
  
5. Introduction to:
  - Track grading
  - Nest grading
  - Grading basic bodice block and skirt blockTwo patterns each

## **RECOMMENDED BOOKS**

1. Pattern Making for Fashion Design by Helen Joseph Armstrong, Vikas Publishing House Pvt. Ltd. Delhi
2. The ABC's of Grading by Murray Sacher, New Age Publisher, Delhi
3. Basic Pattern Skills for Fashion Design by Bernard Zamkoff, McGraw Hill Book Co. Inc. New York.
4. Designing Apparel Through the Flat Pattern by Ernestine Kopp, Beatrice Zelin Publisher, New York.

### 4.3 GARMENT CONSTRUCTION -IV

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#### **RATIONALE**

The diploma holders in garment technology are supposed to fabricate the garments, so it is very essential that they should be able to fabricate various garments as per the layouts and specifications. Hence this subject has been included in the curriculum in order to develop such competencies.

#### **DETAILED CONTENTS**

#### **PRACTICAL EXERCISES**

Construction of:

1. Jump suit
2. Boys shorts
3. Boys shirt (cuff attachment)
4. Circular skirt and top
5. Party frock
6. T-shirt ( in Knits)

Note: The above have to be carried out keeping in view the operation breakdown..

#### **RECOMMENDED BOOKS**

1. Pattern Making for Fashion design by Amstrong, Vikas Publishing House Pvt. Ltd. Delhi
2. Clothing Construction by Doongaji, Raj Parkashan, Delhi.
3. System of Cutting by Zarapkar, Navneet Publications
4. Clothing Construction by Evelyn A Mansfield, Hougutan Miffin Co., Boston
5. Creative Sewing by Allynie Bane; McGraw Hill Book Co., Inc., New York
6. How You Look and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York

## 4.4 APPAREL PRODUCTION MANAGEMENT

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### RATIONALE

Diploma holders in garment technology are required to assist for controlling production and quality of the garments on the shop floor. They are also required to supervise erection, installation and maintenance of equipment including material handling and undertake work-study for better utilization of resources. They are also required to lead a team of workers and motivate them towards realization of organizational objectives.

### DETAILED CONTENTS

#### PART A: PRODUCTION MANAGEMENT

1. Introduction to Basic Production Terms (04 hrs)  
Production, productivity, work in process, time study, motion study, work study, ergonomics
2. Stitches – Definition, properties, types and application (02 hrs)  
Seams - Definition, properties, types and application
3. Pre-Production Planning (12 hrs)
  - Types of production processes, job, batch and mass production
  - Raw material planning and allocation
  - Process planning and process sheet
  - Methods of production control
4. Types of Production System (08 hrs)
  - Make through garment system
  - Batch system
  - Assembly line system
  - Progressive bundle system
  - UPS/Conveyer belt system
  - Production systems – Their advantages and disadvantages
5. Plant Layout and Material Handling (12 hrs)
  - Concept of plant layout
  - Types of layout (process, product and combination type) and their characteristics
  - Factors affecting plant layout
  - Methods of plant layout
  - Workstation design: Factors considered in designing a work station

6. Material Handling (08 hrs)
- Introduction and functions of material handling
  - Material handling equipment – their selection
  - Safety requirements while using material handling equipment
- 7 Introduction to Ergonomics (02 hrs)

**PART B:  
LIST OF PRACTICALS**

1. Designing of layout for the following:
  - a) High fashion garment
  - b) Basic garment
2. Study of improvement w.r.t.
  - a) Methods
  - b) Time study and work study
3. Study of production system w.r.t. selection of production system and productivity
  - a) Makethrough
  - b) Assembly line
4. Identification of different types of stitches and seams (file preparation)
- 5 Ergonomic

**RECOMMENDED BOOKS**

1. Managing Quality by SK Bhardwaj and PV Mehta; New Age Publisher, Delhi
2. Productivity by Rajesh Bheda, CBS Publishers, New Delhi
3. ISO 9000 –Textile Committee Manual

**SUGGESTED DISTRIBUTION OF MARKS**

Topic No.	Time Allotted (Hrs)	Marks Allotted (%)
1	04	8
2	02	5
3	12	25
4	08	16
5	12	26
6	08	16
7	02	04
<b>Total</b>	<b>48</b>	<b>100</b>

## 4.5 CAD IN GARMENT TECHNOLOGY-II

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### RATIONALE

The term CAD has found its way into all major disciplines that have got anything to do with designing or drafting techniques. The objective is to expose professionals and to meet the needs of the users by complementing their knowledge, skills and creativity in the field of garment technology and their application in the industry.

### DETAILED CONTENTS

#### PRACTICAL EXERCISES

(Software: Use of Corel Draw and Adobe Photoshop)

1. Detailed study of Corel Draw and Adobe Photoshop.
2. Draw 3 profiles of female flesh figures (front, back and side view)
3. Design an executive wear along with accessories
4. Drape a saree with masking effect
5. Pick up a costume worn by a famous fashion model. Scan his/her figure and redesign the texture and the color combination of the dress.
6. Design a mood/story board according to the selected theme (both paper and computer assignment)
7. Logo and Labels designing
8. Create a brochure for your own label

Note : Visit to Design Studio in export houses and industry to understand the making and use of Mood boards etc.

### RECOMMENDED BOOKS

1. Literature from the supplier of each software can be consulted
2. Corel Draw 12 – BPB Publication ( latest version)
3. Adobe Photoshop 5.5 - BPB Publication ( latest version)



## 4.6 FINISHING AND PACKAGING

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### RATIONALE

The final presentation of finished product matters a lot in garment trade and hence knowledge and skill regarding this subject is essential for the students of garment technology, so that they are able to perform finishing, pressing and folding, packing and sealing processes effectively

### DETAILED CONTENTS

Sr.No	Theory	Practical Exercises
<b>Finishing</b>		
1.	Stain removal methods. Chemicals used ( 6 hrs)	Exercises on removal of stains – oils, colour, chemicals, blood, tea, coffee etc
2.	Ironing factors – heat, moisture, pressure. ( 3 hrs)	
3.	Washing and dry cleaning – methods, equipment, stone washing, special washing and dry cleaning methods ( 6 hrs)	Practice on hand washing and mechanical washing of different garments
4.	Various kinds of fusing for different fabrics, woven, non-woven and knitted ( 4 hrs)	Practice on fusing
5.	Labels ( 3 hrs)	Collection of different types of Labels
<b>Pressing and Folding</b>		
6.	Pressing:- Purpose, categories of pressing,– conventional and vacuum system (10 hrs)	Exercises on these processes
7.	Folding – flannel method mechanical suiting size of bag/ container ( 5 hrs)	Exercises on these processes

<b>Sr.No</b>	<b>Theory</b>	<b>Practice</b>
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**Packing and Sealing**

- |    |   |                              |
|----|---|------------------------------|
| 8. | Types, packing materials and methods, Hanger packing in wardrobe covering, transport cartons/containers, strapping methods and equipments, air worthy and sea- worthy packing, Sealing methods and cartons and babs<br>( 8 hrs) | Exercises on these processes |
|----|---|------------------------------|

**Storage Planning and Management**

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|---|--|---|
| 9 | Planning, stocking, valuation, scheduling, transportation, insurance<br>( 3 hrs) | Preparation of different types of charts and practical analysis |
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**ASSIGNMENT FOR THE STUDENTS**

Prepare a practical file on stain removal

**INSTRUCTIONAL STRATEGY**

The teachers are supposed to take the students for industrial visit for showing the processes of finishing, pressing and folding, packaging and sealing, so that the students are able to appreciate the importance of such activities in the trade of garments' manufacturing

**RECOMMENDED BOOKS**

1. Household textiles and laundry work by Durga Deolkar, Oxford & IBH Publishing Co. Delhi
2. Textile fibres and their use by Hess , Oxford & IBH Publishing Co. Delhi
3. Care Labels – NITTRA publications by Mehta and Bhardwaj, New Age Publishders, Delhi
4. Volume production and Quality Control (vol.I) by AJ Chitter

### SUGGESTED DISTRIBUTION OF MARKS

<b>Topic No.</b>	<b>Time Allotted (Hrs)</b>	<b>Marks Allotted (%)</b>
1	06	13
2	03	06
3	06	13
4	04	08
5	03	06
6	10	20
7	05	11
8	08	17
9	03	06
<b>Total</b>	<b>48</b>	<b>100</b>

## **ENTREPRENEURIAL AWARENESS CAMP**

The employment opportunities for diploma holders especially in public sector are dwindling. The diploma holders need to explore the possibilities of becoming entrepreneurs. For this, they must be acquainted with entrepreneurship development, scope of setting up small-scale industry, existing business opportunities, financial support available and various aspects of managing business. In this context, an entrepreneurial awareness camp is suggested. During the camp, experts from various organizations such as banks, financial corporations, service institutes etc. may be invited to deliver expert lectures. Successful entrepreneurs may also be invited to interact with the students. Students may be encouraged to read papers or give seminar during the camp on Entrepreneurship Development related topics.

The camp is to be organized at a stretch for two to three days during fourth semester. Lectures will be delivered on the following broad topics. There will be no examination for this subject

1. Who is an entrepreneur?
2. Need for entrepreneurship, entrepreneurial career and self employment
3. Scenario of development of small scale industries in India
4. Entrepreneurial history in India, Indian values and entrepreneurship
5. Assistance from District Industries Centres, Commercial Banks, State Financial Corporations, Small industries Service Institutes, Research and Development Laboratories and other Financial and Development Corporations
6. Considerations for product selection
7. Opportunities for business, service and industrial ventures
8. Learning from Indian experiences in entrepreneurship (Interaction with successful entrepreneurs)
9. Legal aspects of small business
10. Managerial aspects of small business