

CURRICULUM

FOR

**DIPLOMA IN
FASHION DESIGN
(3 YEARS)**



REVISED BY:

BOARD OF TECHNICAL EDUCATION DELHI

(DELHI STATE)

EFFECTIVE FROM: 2013-14

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- 5.1 Production Management and Quality Control
 5.2 Advanced Pattern Making-I
 5.3 CAD in Fashion Design - II
 5.4 Garment Construction - V
 5.5 Minor Project Work
 5.6 Seminar Related to Industrial Training

~~64-72~~ 62-70
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Sixth Semester

- 6.1 Apparel Retailing and Merchandizing
 6.2 Industrial Management
 6.3 Advanced Pattern making - II
 6.4 Art Portfolio
 6.5 Major Project Work

~~73-82~~ 71-80
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SALIENT FEATURES OF THE CURRICULUM FOR DIPLOMA COURSE IN FASHION DESIGN

1. Name of the Programme : Diploma Course in Fashion Design
2. Duration of the Programme : Three Years
3. Entry Qualification : Matriculation as per norms laid down by AICTE/ State Board of Technical Education, Delhi
4. Intake : 45 or as prescribed by State Board of Technical Education, Delhi (An aptitude test may be conducted for admission to this diploma programme)
5. Pattern of the Programme : Semester System (Each Semester is of 16 weeks and each week has 36 – 40 contact hours)

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EMPLOYMENT OPPORTUNITIES FOR DIPLOMA HOLDERS IN FASHION DESIGN

Following employment opportunities are visualized for diploma holder in Fashion Design:

1. Fashion Coordinator in export/domestic industry/buying houses
2. Freelancer in different activities associated with fashion designing
3. Fashion merchandiser in marketing
4. Production coordinator in garment manufacturing industry
5. Quality controller in garment manufacturing industry
6. Fashion Coordinator in organizations working for promotion of traditional craft
7. Fashion Illustrator / Fashion consultant
8. Self employment

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COMPETENCY PROFILE OF DIPLOMA HOLDERS IN FASHION DESIGN

Keeping in view the employment opportunities, following are the competencies to be developed in the students for their gainful employment:

1. Knowledge of fashion, technology, history, and culture.
2. Ability to illustrate different types of dresses in different colour medium
3. Design, draft, prepare patterns (of different sizes) for various types of garments (manually as well as with the use of computers) and grade to different sizes
4. Fabricate various articles of apparel made to measure and mass production for all various consumer segments.
5. Manage the production of different types of garments (children, ladies, gents and special clothing
6. Ability to operate garment manufacturing machines and tools
7. Select suitable fabric for different styles and types of garments according to latest trends and forecast.
8. Understanding estimation of fabric and costing of garments
9. Knowledge of interpersonal relations and skills in communication
10. Use of computers in the field of Fashion Design
11. Knowledge of marketing and retail management
12. Awareness of ecology and environment protection
13. Ability to set up an entrepreneurial unit (a small scale unit)

DERIVING CURRICULUM AREAS FROM COMPETENCY PROFILE

| SR NO | COMPETENCY PROFILE | CURRICULUM AREAS |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Select suitable fabric for different styles and types of garments according to latest trends and forecast | - Elements of Textile - Basic Design - Indian Traditional Textiles |
| 2. | Design, draft, prepare patterns and grade (into different sizes) for various types of garments (manually as well as with the use of computers) | - Garment Design - Pattern Making and Style Interpretation - Draping - Pattern Grading and Marker Making - CAD in Fashion |
| 3. | Ability to illustrate different types of figures and dresses in different colour media/texture | - Fashion Illustration |
| 4. | Fabricate various items of garments made to measure and mass production for all ages and figure types | - Garment Construction |
| 5. | Manage the production of different types of garments (children, ladies, gents and special types) on the shop floor | - Garment Construction - Production Planning and Management - Industrial Management |
| 6. | Ability to operate garment manufacturing machines and tools | - Garment Manufacturing Technology |
| 7. | Knowledge of fashion technology history, culture and nature and its stylization | - History of Fashion |
| 8. | Setting-up of an entrepreneurial unit | - Business Management - Entrepreneurship Development |
| 9. | Knowledge of interpersonal relations, personality development and skills in communication | - Communication Skills - Art Portfolio - Design Collection |
| 10. | Use of computers in the field of Fashion Design | - CAD in Fashion Design |
| 11. | Knowledge of marketing and retail management | - Apparel Retailing and Merchandizing - Industrial Management |
| 12. | Understanding of estimating and costing of garments | - Pattern Grading and Marker Making |

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ABSTRACT OF CURRICULUM AREAS

1. Communication Techniques
2. Elements of Textile
3. Basic Design
4. Basic Pattern Making and Style Interpretation Sketching
5. Fashion Illustration
6. Garment Construction
7. Indian Traditional Textiles
8. Garment Design
9. History of Fashion
10. Garment Manufacturing Technology
11. Introduction to Computer
12. Pattern Grading and Marker Making
13. Introduction to Draping
14. Advanced Pattern Making
15. CAD in Fashion
16. Production Management and Quality Control
17. Minor Project Work
18. Seminar Related to Industrial Training
19. Apparel Retailing and Merchandizing
20. Industrial Management
21. Art Portfolio
22. Major Project

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN FASHION DESIGN

FIRST SEMESTER

| No | Subject | L | T | P | EVALUATION SCHEME | | | | | | Total Marks |
|--------------|-------------------------------------------------|-----------|----------|-----------|---------------------|------------|-----------------------------------|-----|------------|-----|-------------|
| | | | | | Internal Assessment | | External Assessment (Examination) | | | | |
| | | | | | Theory | Practical | Written Paper | | Practical | | |
| | | | | | Max. Marks | Max. Marks | Max. Marks | Hrs | Max. Marks | Hrs | |
| 1.1 | Communication Skills * | 3 | - | - | 50 | - | 100 | 3 | - | - | 150 |
| 1.2 | Elements of Textile - I | 4 | - | 2 | 50 | 50 | 100 | 3 | 100(Viva) | 3 | 300 |
| 1.3 | Basic Design | 4 | - | 6 | 50 | 50 | 100 | 3 | 100 | 3 | 300 |
| 1.4 | Basic Pattern Making and Style Interpretation-I | 2 | - | 6 | 50 | 50 | 100 | 3 | 100 | 3 | 300 |
| 1.5 | Fashion Illustration - I | - | - | 3 | - | 50 | - | - | 100 | 3 | 150 |
| 1.6 | Garment Construction-I | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 1.7 | Student Centred Activities** | - | - | 4 | - | - | - | - | - | - | - |
| Total | | 13 | - | 27 | | | | | | | 1350 |

* Subject is common with Diploma in Garment Fabrication Technology

** It will comprise of co-curricular activities like games, hobby clubs including photography, seminars, declamation contests, library studies, extension lectures, field visits, NCC, NSS, cultural activities etc.

L = Lecture (hrs/week)

T = Tutorial (hrs/week)

P = Practical (hrs/week)

SECOND SEMESTER

| Sr. No | Subject | L | T | P | EVALUATION SCHEME | | | | | | Total Marks |
|--------------|--------------------------------------------------|-----------|----------|-----------|---------------------|------------|----------------------------------|----------|------------|----------|-------------|
| | | | | | Internal Assessment | | External Assessment Examination) | | | | |
| | | | | | Theory | Practical | Written Paper | | Practical | | |
| | | | | | Max. Marks | Max. Marks | Max. Marks | Hrs | Max. Marks | Hrs | |
| 2.1 | Introduction to Computers | 1 | - | 4 | - | 50 | - | - | 100 | 3 | 150 |
| 2.2 | Elements of Textile - II | 4 | - | 2 | 50 | 50 | 100 | 3 | 100 (Viva) | 3 | 300 |
| 2.3 | Indian Traditional Textiles | 3 | - | 4 | 50 | 50 | 100 | 3 | 100 | 3 | 300 |
| 2.4 | Basic Pattern Making and Style Interpretation-II | 2 | - | 6 | 50 | 50 | 100 | 3 | 100 | 3 | 300 |
| 2.5 | Fashion Illustration-II | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 2.6 | Garment Construction-II | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 2.7 | Student Centred Activities** | - | - | 2 | - | - | - | - | - | - | - |
| Total | | 10 | - | 30 | - | - | - | - | - | - | 1350 |

** It will comprise of co-curricular activities like games, hobby clubs including photography, seminars, declamation contests, library studies, extension lectures, field visits, NCC, NSS, cultural activities etc.

L = Lecture (hrs/week)

T = Tutorial (hrs/week)

P = Practical (hrs/week)

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THIRD SEMESTER

| Sr. No | Subject | L | T | P | EVALUATION SCHEME | | | | | | Total Marks |
|--------------|---------------------------------------------------|-----------|----------|-----------|---------------------|------------|-----------------------------------|-----|------------|-----|-------------|
| | | | | | Internal Assessment | | External Assessment (Examination) | | | | |
| | | | | | Theory | Practical | Written Paper | | Practical | | |
| | | | | | Max. Marks | Max. Marks | Max. Marks | Hrs | Max. Marks | Hrs | |
| 3.1 | Garment Design-I | 2 | - | 4 | 50 | 50 | 100 | | 100 | 3 | 300 |
| 3.2 | Basic Pattern making and style Interpretation-III | 2 | - | 6 | 50 | 50 | 100 | 3 | 100 | 3 | 300 |
| 3.3 | History of Fashion-I | 3 | - | - | 50 | - | 100 | 3 | - | - | 150 |
| 3.4 | Garment Manufacturing Technology | 3 | - | 2 | 50 | 50 | 100 | 3 | 100 (viva) | 3 | 300 |
| 3.5 | Fashion Illustration - III | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 3.6 | Garment Construction-III | - | - | 8 | - | 50 | - | - | 100 | 3 | 150 |
| 3.7 | Student Centred Activities* | - | - | 4 | - | - | - | - | - | - | - |
| Total | | 10 | - | 30 | | | | | | | 1350 |

* It will comprise of co-curricular activities like games, hobby clubs including photography, seminars, declamation contests, library studies, extension lectures, field visits, NCC, NSS, cultural activities etc.

L = Lecture (hrs/week)

T = Tutorial (hrs/week)

P = Practical (hrs/week)

FOURTH SEMESTER

| Sr. No | Subject | L | T | P | EVALUATION SCHEME | | | | | | Total Marks |
|--------------|-----------------------------------|----------|----------|-----------|---------------------|------------|-----------------------------------|-----|------------|-----|-------------|
| | | | | | Internal Assessment | | External Assessment (Examination) | | | | |
| | | | | | Theory | Practical | Written Paper | | Practical | | |
| | | | | | Max. Marks | Max. Marks | Max. Marks | Hrs | Max. Marks | Hrs | |
| 4.1 | History of Fashion-II | 3 | - | - | 50 | - | 100 | 3 | - | - | 150 |
| 4.2 | Garment Design – II | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 4.3 | Pattern Grading and Marker making | - | - | 8 | - | 50 | - | - | 100 | 3 | 150 |
| 4.4 | •Fashion Illustration – IV | - | - | 3 | - | 50 | - | - | 100 | 3 | 150 |
| 4.5 | Introduction to Draping | - | - | 4 | - | 50 | - | - | 100 | 3 | 150 |
| 4.6 | CAD in Fashion Design – I | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 4.7 | Garment Construction-IV | - | - | 8 | - | 50 | - | - | 100 | 3 | 150 |
| 4.8 | Student Centred Activities* | - | - | 2 | - | - | - | - | - | - | - |
| Total | | 3 | - | 37 | | | | | | | 1050 |

* It will comprise of co-curricular activities like games, hobby clubs including photography, seminars, declamation contests, library studies, extension lectures, field visits, NCC, NSS, cultural activities etc.

L= Lecture (hrs/week)

T = Tutorial (hrs/week)

P = Practical (hrs/week)

NOTE: Students to undergo Industrial Training of approximate 4 weeks duration in reputed organization during vacation holidays at the end of semester and evaluation will be done in next semester (i.e. 5th Semester) in the subject 5.5 Seminar Related to Industrial Training (Practical).

FIFTH SEMESTER

| Sr. No | Subject | L | T | P | EVALUATION SCHEME | | | | | | Total Marks |
|--------|-------------------------------------------|---|---|----|---------------------|------------|-----------------------------------|-----|------------|-----|-------------|
| | | | | | Internal Assessment | | External Assessment (Examination) | | | | |
| | | | | | Theory | Practical | Written Paper | | Practical | | |
| | | | | | Max. Marks | Max. Marks | Max. Marks | Hrs | Max. Marks | Hrs | |
| 5.1 | Production Management and Quality Control | 4 | - | 2 | 50 | 50 | 100 | 3 | 100 (Viva) | 3 | 300 |
| 5.2 | Advanced Pattern Making - I | - | - | 8 | - | 50 | - | - | 100 | 3 | 150 |
| 5.3 | CAD in Fashion Design – II | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 5.4 | Garment Construction-V | - | - | 8 | - | 50 | - | - | 100 | 3 | 150 |
| 5.5 | Minor Project Work | - | - | 8 | - | 100 | - | - | 100 | 3 | 200 |
| 5.6 | Seminar Related to Industrial Training | - | - | 2 | - | 50 | - | - | 100 (Viva) | 3 | 150 |
| 5.7 | Student Centred Activities* | - | - | 2 | - | - | - | - | - | - | - |
| Total | | 4 | - | 36 | | | | | | | 1100 |

* It will comprise of co-curricular activities like games, hobby clubs including photography, seminars, declamation contests, library studies, extension lectures, field visits, NCC, NSS, cultural activities etc.

L= Lecture (hrs/week)

T = Tutorial (hrs/week)

P = Practical (hrs/week)

SIXTH SEMESTER

| Sr. No | Subject | L | T | P | EVALUATION SCHEME | | | | | | Total Marks |
|--------|-------------------------------------|----|----|----|---------------------|------------|-----------------------------------|-----|------------|-----|-------------|
| | | | | | Internal Assessment | | External Assessment (Examination) | | | | |
| | | | | | Theory | Practical | Written Paper | | Practical | | |
| | | | | | Max. Marks | Max. Marks | Max. Marks | Hrs | Max. Marks | Hrs | |
| 6.1 | Apparel Retailing and Merchandizing | 4 | - | - | 50 | - | 100 | 3 | - | - | 150 |
| 6.2 | Industrial Management | 4 | - | - | 50 | - | 100 | 3 | - | - | 150 |
| 6.3 | Advanced Pattern making - II | - | - | 8 | - | 50 | - | - | 100 | 3 | 150 |
| 6.4 | Art Portfolio | - | - | 6 | - | 50 | - | - | 100 | 3 | 150 |
| 6.5 | Major Project Work | - | - | 14 | - | 100 | - | - | 200 | 3 | 300 |
| 6.6 | Student Centred Activities* | -- | -- | 4 | - | - | - | - | - | - | - |
| Total | | 8 | - | 32 | | | | | | | 900 |

It will comprise of co-curricular activities like games, hobby clubs including photography, seminars, declamation contests, library studies, extension lectures, field visits, NCC, NSS, cultural activities etc

L= Lecture (hrs/week)

T = Tutorial (hrs/week)

P = Practical (hrs/week)

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L1 Communication Skills

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Rationale:

The objective is to develop reading, writing and communication skills in students to develop confidence in them in written and oral techniques of communication in English in field of business, technical reports as well as meeting continuing education needs as technicians.

- | | | |
|-----|-----------------------------------------------------------------------------------------------------------------------------|------|
| (1) | Communication- | (15) |
| | i) Meaning, Process, Types, Barriers to communications, | |
| | ii) Importance of effective communication in business, | |
| | iii) Principles of effective communications | |
| (2) | Correspondence:- | |
| | i) Business and official letters: Enquiries and Quotations, Complaints, Orders, Payment, Banks, Insurance, Officials. | (10) |
| | ii) Resume writing, Office order and notices, Memorandum and Social Correspondence. | (10) |
| (3) | Paragraph Writing | (10) |
| (4) | Report writing | (15) |
| (5) | Précis and Comprehension | (15) |
| (6) | Grammar: - | (15) |
| | i) Determiners | |
| | ii) Prepositions | |
| | iii) Modals | |
| | iv) Tenses | |
| | v) Active - Passive | |
| | vi) Direct & Indirect | |
| | vii) Punctuation | |
| (7) | Vocabulary:- | |
| | One word substitution, Homonyms, Synonyms, Antonyms. | (10) |

Verbal practice on:-

1. Practice session of oral communication by means of seminars on current topic, debates and contents, discussion session (4hours)
2. Practice session on group discussion (4hours)

BOOK REFERENCE:

R.K CHADHA - Communication Techniques and Skills.

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1.2 ELEMENTS OF TEXTILE - I

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RATIONALE

The knowledge and skills related to textile science is essential to provide a comprehensive insight into the basic knowledge about fibers, yarns and relevant properties affecting the ultimate performance and use of fabrics by the consumer, hence the subject is included in the curriculum.

DETAILED CONTENTS

THEORY

PRACTICAL EXERCISE

1. Textile fibers (12 hrs)
 - a) Introduction to textile fibre
Classification of important textile fibres based on their origin and constituents
 - b) Important physical and chemical properties of textile fibres: cotton, wool, silk, polyester, rayon, nylon, acrylic, spandex. Physical analysis of fabrics composed of different fibres like cotton, wool, silk, polyester, rayon, nylon, acrylic, spandex.
 - c) Identification of textile fibres
- Non-technical Test
- Technical Test
Identification of fibres in a fabric sample through:
- Visual examination
- Burning test
- Microscopic test
- Chemical test
2. Yarn Manufacturing (16 hrs)
 - a) Classification of yarns: Staple/spun yarns, filament yarns. Visit to Spinning Mill or show relevant video films to understand the various systems of yarn spinning - staple, filament and spun filament yarns
 - b) Elementary knowledge of different spinning techniques for manufacturing of staple/spun yarns : Ring Spinning, Rotor spinning, Friction spinning and Air-jet spinning
 - c) Elementary knowledge of different spinning methods for filament yarns : Wet, Dry and Melt spinning

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THEORY

- d) Type of yarns
- Simple yarns: single, ply, cord
 - Textured yarns, blended yarns.
 - Novelty yarns: slub, boucle, chenille, nubs, corkscrew, grindle
- e) Yarn properties
- Yarn numbering system
 - Twist
 - Strength
- f) Spinning/yarn defects

PRACTICAL EXERCISE

To analyze and understand fabric texture (appearance and hand) on the basis of the yarns used:

- Fabrics using simple yarns
- Fabrics using novelty yarns
- Fabrics using filaments: textured, non-textured, spun filaments

To determine yarn count

To determine yarn twist

To determine yarn strength

Physical analysis of different spinning defects in spun/filament yarns.

3. Fabric Manufacturing (16 hrs)

- a) Different techniques of fabric manufacture, definition of weaving, knitting, non-wovens. Prepare a catalogue of fabric samples made by using different methods of construction
- b) Weaving:
Warp and weft preparation: winding, warping, sizing, drawing-in Visit to weaving mill producing woven fabrics to understand type of looms and processes or relevant video film may be shown
Working of looms: primary, secondary and auxiliary motions.
Types of looms: conventional, automatic and shuttleless.
- c) Basic weaves: plain, rib, basket/matt, twill, satin, decorative weaves, spot, dobby, jacquard, pile To identify the woven fabrics for:
a) Warp and weft
b) Face and back
c) Prepare a point-paper diagram of basic weaves and their variations
d) Prepare a list of fabrics available under each category of weave
- Selvedge Identification: plain, tucked-in, leno, fused
- d) Weaving defects Physical analysis of different weaving defects in woven fabrics
- e) Different standard woven fabrics Georgette, Chiffon, Crepe, Chambray, Rubia, Khaki, Drill, Brocade, Organdy Denim etc. Physical analysis of different types of standard woven fabrics.

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ASSIGNMENT

Prepare a catalogue of fabric-samples under following heads:

1. Fibre Composition – Names by which they are available
2. Yarn Structure – Texture variation
3. Fabric Structure – Characteristic, Different methods of construction and their variations

INSTRUCTIONAL STRATEGY

The teacher may develop master samples to demonstrate various processes. The students may be asked to prepare swatch files. The students should be taken for a visit to spinning and weaving mills to show the various processes or relevant video films may be screened.

RECOMMENDED BOOKS

1. Understanding Textiles by Phyllis Tortora, Macmillan publishing co. New York
2. Modern Textiles by Rothy Siegert Eyle, Wiley, John & Sons, Incorporated (USA)
3. Encyclopedia of Textiles, Fibres and Non-woven Fabrics, Kohli Publishers, 34 Industrial Area, Phase –II, Chandigarh
4. Textiles Fiber to Fabric – P Corbman, A Wynne, Mac Milan Publishers, London
5. Fabric Science by Joseph Pizzuto, A&C Black Publishers Ltd. (New York)
6. Essentials of Textiles by Marjery Josphe; Holt, Rinehart and Winston, Inc, UBS Publishers Distributors Ltd. New Delhi
7. Textile Fibres and their Uses by KP Hes, Khanna Publishers, Delhi
8. Textiles by Hollen and Sodler, Macmillan Publishing, India
9. Introductory Textile Science by Marjury Joseph, CBS Publishers distributors Pvt. Ltd. Chennai
10. Principles of Textile Testing by Booth
11. Clothing, Textiles and Their Care by Dr. Rajwinder K. Randhawa, Happer and Row publishers, New York.
12. Clothing, Textiles and Laundry by Sushma Gupta, Neeru Garg and Renu Saini, Kalyani Publishers, New Delhi
13. A Text Book of Home Science by Dr. Neelam Grewal, Wiley Publishers, New York
14. *Vastra sansrachana by S.S. Satsangi, Usha Publishers, Shalimar Bagh, Delhi*
15. *Jacquard EK Saral Vidya by S.S. Satsangi Usha Publishers, Shalimar Bagh, Delhi*
16. *Fabric Defects - Causes and Remedies by S.S. Satsangi, Usha Publishers, Delhi.*

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1.3 BASIC DESIGN

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RATIONALE

The knowledge and skill related to elements of design is essential for the students of diploma program of Fashion Design in order to develop the understanding regarding how to make a design using basic elements and principles of design.

DETAILED CONTENTS

THEORY

1. Understanding design in relationship to daily life and nature (02 hrs)

2. **Elements of Design** (50 hrs)
a) **Lines**
Horizontal, vertical, diagonal, curves, zig zag, thick and thin

(b) **Colour**

Theory - primary, secondary, sub-secondary/tertiary, hue, value, intensity, tints, shades, tone analogues achromatic, Mono- chromatic, polychromatic, warm and cool; transparent and opaque, rainbow; contrast complimentary and split complimentary colours relating to season/moods

(c) **Texture**

Factors contributing to textures, fiber, yarn - smooth, shine, rough etc

(d) **Silhouette**

Definition and theory about basic silhouettes

(e) **Shape**

Basic designing of various shapes - Abstract, Floral, Geometrical, Optical

PRACTICAL EXERCISE

Identification of design examples from daily life objects and nature

Illustrate different type of lines (dotted, broken vertical, horizontal, diagonal, zigzag, curved, thick and thin.

Corresponding colour exercises on colour to be carried out such as colour wheel, tints, shades, tones, colour scheme

Practical exercises for textures, silhouettes and shapes in fabric and other objects/nature and human body

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THEORY

3. **Principles of Design** (20 hrs)
Introduction to principles of design
Rhythm, Harmony, Proportion, Balance, Emphasis
4. **Collage and its types - Relief and Flat (Theory)** (20 hrs)
5. **Replica, Enlargement and Reduction of Design patterns** (18 hrs)

PRACTICAL EXERCISE

- Corresponding exercise related to principles of design - Rhythm, Harmony, Proportion, Balance, Emphasis
- Preparing a collage of various materials - paper, fabric and waste materials
- Exercises with the help of swatches of various prints

INSTRUCTIONAL STRATEGY

The teacher should encourage the students to do market surveys, field visits, fairs and exhibition visits to understand the elements of design and colour theory

RECOMMENDED BOOKS AND MAGAZINES

1. Fashion Drawing Designs; Magazine of Thailand
2. Pattern Designs for Haute Couture Volume I
3. Fashion Drawing - The Basic Principles by Anne Allen and Julion Seaman
4. Latest Fashion Style by Winter Hiver
5. Jasmine's New Look, On Indian Fashion Scene
6. Lifestyles: Fashion Styles by Katheryn Samuel
7. Spring and Summer Collection; Tokyo, New York
8. Fashion Kaleidoscope
9. Colour and Fashion
10. Colour Trends - Four Volumes
11. Pantone Book (for Colors)
12. Fashion Forward, Contact Communications
13. Magazines - Bridal Asia, National Geographic, Wedding Affair, Vogue, Clothes Line

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1.4 BASIC PATTERN MAKING AND STYLE INTERPRETATION - I

RATIONALE

The students should know various considerations in making of garments, scope and importance of drafting and pattern making so that they are able to take measurements, interpret the style of any given design and make the pattern. The subject therefore deals with basics of pattern making and styling of garments.

DETAILED CONTENTS

| THEORY | | PRACTICAL EXERCISE |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drafting equipment and its use: - Scales, squares and French curve - Scissors | 4 hrs | Practice on use of - Square and scales (measurements and shape) - French curve – use of arm hole, necklines, crotch, seat line - Practice on use of other equipment |
| 2. Different methods of taking measurements - Direct and indirect methods - Sequence - Use of terminology (grain line, notches, on fold, matching points, shortening and lengthening points) | 3 hrs | - Taking measurements directly from body - Locating landmarks and taking anthropometric measurement - Taking measurements from readymade garments |
| 3. Scope, importance and methods of developing patterns – flat patterns and draping Types of patterns – Basic, Industrial, Master, Block etc. | 3 hrs | |
| 4. Drafting of basic slopper and sleeve block for children | 2 hrs | Preparation of basic slopper and sleeve block for children. Developments of proportional measurements from body by use of $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{10}$ mini patterns |
| 5. Drafting of basic block of children: upper, lower and combination: | 4 hrs | Drafting of skirt, frocks, romper, jump-suit, sleep suit. |

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INSTRUCTIONAL STRATEGY

The students may be taken to the nearby field organizations to demonstrate various pattern making and style interpretation processes.

RECOMMENDED BOOKS

1. Pattern Making for Fashion Design by Helen Joseph Armstrong
2. The ABC's of Grading by Murray Sacheir
3. Basic Pattern Skills for Fashion Design by Bernard Zamkoft
4. Design Apparel through the Flat Pattern by Ernestine Kopp
5. Pattern Cutting and Making up by Martin Shoben
6. Metric Pattern Cutting for Children's Wear and Babywear by Winifred Aldrich

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1.5 FASHION ILLUSTRATION - I

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RATIONALE

The skill in fashion illustration is essential for the students of Fashion Design to develop creativity and ability to illustrate different types of figures in different poses and colour media. After going through this subject, the student of Fashion Design will be able to illustrate different types of fashion figures.

Note – All drawing work should be done on A3 size sketching pad.

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Understanding the concept of Fashion Drawings (02 hrs)
2. Knowledge of Drawing Equipment and Tools (06 hrs)
Cartridge sheet, gateway sheet, ivory sheet (tracing paper), pastel sheet
Markers and colour pencils
Drawing Board
Ruler/graded scale
Erasers
Paper cutter
Different media (Pencils – HB, 2B, 4B, 6B, ink, water colour, poster colour, water proof ink/photo colours)
3. a) Fashion Careers that require sketching (02 hrs)
b) Maintenance of scrap book
4. Figure Drawing (14 hrs)
 - a) Difference between Normal & Fashion figures - 8 Head & 10 Head figures
 - b) Stick Figures, Block Figures & Bone Structure
 - c) Figure Muscle view/Fleshing - Front view, back view, $\frac{3}{4}$ view, side view,
5. Drawing of figure details (10 hrs)
 - a) Structure of legs and feet
 - b) Structure of arms and hands
 - c) Basic drawing of faces, features and hairstyles –Front, $\frac{3}{4}$, Side (profile), Back and Lifted view

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RECOMMENDED BOOKS

1. Fashion Drawing -The Basic Principles by Anne Allen and Julian Seaman
2. Fashion Sketchbook (6th Edition): Bina Abing
3. New Fashion Figure Templates: Over 250 Templates by Patrick John Ireland
4. Creative Fashion Drawing by Noel Chapman & Judith Cheek
5. Sketching by Pratap Mulick
6. 100 Years of Fashion Illustration by Cally Blackman
7. Fashion illustration by Anna Kiper
8. Fashion Design Techniques by Zeshu Takamura

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1.6 GARMENT CONSTRUCTION - I

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RATIONALE

The diploma holders in Fashion Design are supposed to various components of garments such as pleats and gather, darts, tucks etc. Hence this subject has been included in the curriculum to develop such competencies in the students. The subject deals with basics of garment construction.

DETAILED CONTENTS

| INSTRUCTIONS FOR PRACTICALS | PRACTICAL EXERCISES |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Sewing tools and equipment used for garment construction | Practice on use of measuring tape, shapers, tailor's chalk, paper and fabric cutting scissors, hand needle thimble, seam ripper, pressing equipments |
| 2. Defects and remedies of a sewing machine Selection of needle and thread Handling of different fabrics | Practice on threading, oiling, handling and care of sewing machine, Fashion Maker and over lock machine |
| 3. Types of fasteners & trimmings | Practice on various types of fasteners & trimming - hooks, shapes, loops, button velero, snaps, trims |
| 4. Machine speed control exercises with paper and fabric | Straight line, square, concentric square, curved, circle |
| 5. Classification of seams: (Superimposed, lapped, bound) | Practice on various samples of machine seam - plain, French, lapped seam, top seam, slot seam, welt seam, bound seam |
| 6. Classification of seams: (Decorative, Edge finishing) | Practice on variations zigzag lock stitch decorative seams Edge finishing seam - facing, hemming, piping and edge binding |
| 7. Darts, tucks - sample | Preparation of darts, tucks |
| 8. Variation of pleats and gather | Preparation of variation of pleats and gather |

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RECOMMENDED BOOKS

1. Pattern Making for Fashion Design by Armstrong
2. Clothing Construction by Doongaji
3. System of Cutting by Zarapkar
4. Clothing Construction by Evelyn A. Mansfield, Houghton Mifflin Co., Boston
5. Creative Sewing by Allynne Bane; McGraw Hill Book Co., Inc., New York
6. How you Look and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York
7. Fashion Maker by Betty Foster
8. Fashion Clothes- She by Debbie Bliss, Sue Penerill
9. Basic Processes and Clothing Construction by S Doongaji and R Despande
10. Simplicity Revised ABC of Short-Cut Sewing
11. The Brides Sewing Book by Anne Ladbury
12. Stitch by Stitch by Tarstar Books
13. Pattern Cutting and Making up by Martin Shoben

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2.1

INTRODUCTION TO COMPUTER

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RATIONALE

Computers have great influence on all aspects of life. Almost all work places and living environment are being computerized. In order to prepare diploma holders to work in these environments, it is essential that they are exposed to various aspects of computer such as understanding the working of computer, operating a computer; use of various tools of MS-office; using internet etc. form the broad competency profile of diploma holders. This exposure will enable the students to enter their professions with confidence, live in a harmonious way and contribute to the productivity.

Note:

1. Teaching of theory should be dovetailed with practical work
2. The following topics may be taught in the laboratory along with the practical exercises

DETAILED CONTENTS

1. Computer and overview of its working
2. Computers for information storage, information seeking, information processing and information transmission
3. Elements of computer system, computer hardware and software; data – numeric data, alpha numeric data; contents of a program, processing
4. Computer organization, block diagram of a computer, CPU, memory
5. Input devices; keyboard, mouse etc; output devices; VDU and Printer, Scanner, Plotter
6. Electrical requirements, inter-connections between units, connectors and cables
7. Secondary storage; magnetic disks – tracks and sectors, optical disk (CD and DVD Memory), primary and secondary memory: RAM, ROM, PROM etc., Capacity; device controllers, serial port, parallel port, system bus
8. Exercises on file opening and closing; memory management; device management and input – output (I/O) management with respect of windows
9. Installation concept and precautions to be observed while installing the system and software
10. Introduction about operating systems such as MS-DOS and Windows
11. Special features, various commands of MS word and MS-Excel

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12. About the internet – server types, connectivity (TCP/IP, shell); applications of internet like: e-mail and browsing
13. Various Browsers like WWW (World wide web); hyperlinks; HTTP (Hyper Text Transfer Protocol); FTP (File Transfer Protocol)
14. Basics of Networking – LAN, WAN; Topologies

LIST OF PRACTICALS

1. **Introduction to computer**
 - Block diagram of a computer and overview of its working
 - Basic concepts in stored programme execution
 - Input, output and secondary storage devices
 - Concept of RAM (Random Access Memory), ROM (Read Only Memory)
 - Introduction to operating system, compilers, assembler, loader, linker, programming language
 - Types of computers – micro (PC, PC-XT, PC-AT), Mini, mainframe and super computers – their capabilities
2. **Familiarization with Computer and MS-DOS**
 - Identification of subsystems and terminology
 - Interconnecting various external units including computer
 - Introduction to files
 - Booting the system from floppy and hard disk
 - Selection of drive
 - Organizing information on a disk
 - Formatting floppies, disks
 - Creating and working with directories
 - File operations such as copying, renaming and deleting
 - Printing files
3. Practice in installing a computer system by giving connection and loading the system software and application software
4. Exercises on entering text and data (Typing Practice)
5. Introduction to Windows operating system
6. Features of Windows as an operating system
 - Start
 - Shutdown and restore
 - Creating and operating on the icons
 - Opening Closing and sizing the windows
 - Using elementary job commands like creating, saving, modifying, renaming, finding and deleting a file
 - Creating and operating on a folder - Changing setting like, date, time color (back ground and fore ground)
 - Using short cuts
 - Using on line help

7. MS-Word

- File Management:
Opening, creating and saving a document, locating files, copying contents in some different file(s), protecting files, giving password protection for a file
- Page Set up:
Setting margins, tab setting, ruler, indenting- Editing a document: Entering text, Cut, copy, paste using tool-bars
- Formatting a document:
Using different fonts, changing font size and colour, changing the appearance through bold/italic/underlined, highlighting a text, changing case, using subscript and superscript, using different underline methods
- Aligning of text in a document, justification of document. Inserting bullets and numbering
- Formatting Paragraph, inserting footnote, end note, use of comments
- Use of headers, footers: Inserting footnote, end note, use of comments
- Inserting date, time, special symbols, importing graphic images, drawing tools
- Tables and Borders:
Creating a table, formatting cells, use of different border styles, shading in tables, merging of cells, partition of cells, inserting and deleting a row in a table
- Print preview, zoom, page set up, printing options
- Using Find, Replace options
- Using Tools like:
Spell checker, help, use of macros, mail merge, thesaurus word content and statistics, printing envelopes and labels - Using shapes and drawing toolbar,
- Working with more than one window in MS Word,
- How to change the version of the document from one window OS to another
- Conversion between different text editors, software and MS word

8. MS-Excel

- Starting excel, open worksheet, enter, edit, data, formulas to calculate values, format data, create chart, printing chart, save worksheet, switching from another spread sheet

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- Menu Commands:
Create, format charts, organize, manage data, solving problem by analyzing data, exchange with other applications, programming with MS-Excel, getting information while working
- Work books:
Managing workbooks (create, open, close, save), working in work books, selecting the cells, choosing commands, data entry techniques, formula creation and links, controlling calculations, working with arrays
- Editing a worksheet, copying, moving cells, pasting, inserting, deletion cells, rows, columns, find and replace text, numbers of cells, formatting worksheet
- Creating a chart:
Working with chart types, changing data in chart, formatting a chart, use chart to analyzes data
- Using a list to organize data, sorting and filtering data in list
- Retrieve data with MS - query:
Create a pivot table, customizing a pivot table. Statistical analysis of data
- Customize MS-Excel:
How to change view of worksheet, outlining a worksheet, customize workspace, using templates to create default workbooks, protecting work book
- Exchange data with other application: linking and embedding, embedding objects linking to other applications, import, export documents.

9. MS-PowerPoint

a) Introduction to PowerPoint

- How to start PowerPoint,
- Working environment: concept of toolbars, slide layout, templates etc.
- Opening a new/existing presentation
- Different views for viewing slides in a presentation: normal, slide sorter etc.

b) Addition, deletion and saving of slides

c) How to view the slide show?

- Viewing the presentation using slide navigator
- Slide transition
- Animation effects etc.

10. Internet and its Applications

- a) Log-in to internet
- b) Navigation for information seeking on internet
- c) Browsing and down loading of information from internet
- d) Sending and receiving e-mail
 - Creating a message
 - Creating a address Book
 - Attaching a file with e-mail message
 - Receiving a message
 - Deleting a message

RECOMMENDED BOOKS

1. Fundamentals of Computer by V Rajaraman; Prentice Hal of India Pvt.Ltd., New Delhi
2. Computers Today by SK Basandara, Galgotia publication Pvt ltd. Daryaganj, New Delhi
3. MS-Office 2000 for Everyone by Sanjay Saxena; Vikas Publishing House Pvt. Ltd., New Delhi
4. Internet for Every One By Alexis Leon and Mathews Leon; Vikas Publishing House Pvt. Ltd., Jungpura, New Delhi
5. A First Course in Computer by Sanjay Saxena, Vikas Publishing House Pvt. Ltd., Jungpura, New Delhi
6. Mastering Windows 95, BPB Publication, New Delhi
7. Computer Fundamentals by PK Sinha; BPB Publication, New Delhi
8. Fundamentals of Information Technology by Leon and Leon; Vikas Publishing House Pvt. Ltd., Jungpura, New Delhi '88

Final

2.2 ELEMENTS OF TEXTILE - II

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RATIONALE:

The knowledge and skills related to textile science is essential to provide a comprehensive insight into the basic knowledge about fabric structure, dyeing, printing and finishing affecting the ultimate performance and use of the fabric by the consumer, hence the subject is included in the curriculum.

DETAILED CONTENTS

THEORY

PRACTICAL EXERCISE

1. **Fabric Manufacturing (08 hrs)**
 - a) Knitting
 - Classification: warp and weft knitting
 - Plain, Purl, Rib and interlock
 - Tricot and raschelIdentify and analyze different type of knits samples and enlist their characteristics (design)
Visits to a knitting unit to understand different knitting machines and processes.
 - b) Fabrics formed directly from the fibers: felts, non-wovens, flocked, quilted fabrics
Visit to mill producing felts, non-wovens, flocked, quilted fabrics to understand type of machines and processes or relevant video film may be shown.
 - c) Fabrics formed directly from the yarns: Braids, lace, nets
Visit to mill producing braids, lace, nets to understand type of machines and processes or relevant video film may be shown.
2. **General/Routine Finishes (04 hrs)**
 - a) Importance of textile finish: definition, objectives and type and classifications of finishes
Prepare a catalogue of fabrics with the following finishes on the basis of visual inspection: singeing, desizing, scouring, bleaching, mercerization, tentering, heat setting, optical brighteners, calendaring, sanforisation.
 - b) Routine finishes for cotton fabrics: singeing, desizing, scouring, bleaching, mercerization, tentering, heat setting, optical brighteners, calendaring, sanforisation.

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THEORY

PRACTICAL EXERCISE

3. Dyeing (06 hrs)
- a) Definition
 - b) Types of dyes
 - c) Stages of dyeing (fibre, yarn, piece dyeing, garment dyeing)
 - d) Dyeing defects
4. Printing (06 hrs)
- a) Definition
 - b) Styles of printing- Direct, Discharge and resist printing
 - c) Methods of printing: block, roller, duplex printing, screen, stencil, heat transfer, batik, tie & dye, Photographic, bubble and marble printing
 - d) Print defects
5. Colour Fastness (02 hrs)
- a) Importance of colour fastness to the consumer
 - b) Factors influencing colour fastness
 - c) Evaluation of colour fastness
6. Special Finishes (06 hrs)
- a) Finishes affecting appearance: moiering, embossing, glazing, schienering
 - b) Finishes affecting texture: Flocking, napping, burnt out designs, acid finish, stiffening
 - c) Finishes affecting function: Pre-shrinking, wash-n wear finish, crease/wrinkle resistant, water repellency, water proofing, fire retardency, soil resistance moth & mildew proofing.
- Identify the fabrics according to the stages of dyeing Fabric/garment dyeing
- Identify the fabric samples on basis of the printing techniques - Block printing, screen, batik, tie and dye
- Demonstration of following equipment used for testing colour fastness through a visit to a textile testing laboratory laundero-meter, fadometer, spectro-meter, crockometer, colouri-meter
- Prepare a catalogue of fabrics with the following finishes on the basis of visual inspection and textile markings: moiering, embossing, glazing, schienering, Flocking, napping, burnt out designs, acid finish, stiffening, Pre-shrinking, wash-n wear finish, crease/wrinkle resistant, water repellency, water proofing, fire retardency, soil resistance moth & mildew proofing.

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THEORY

PRACTICAL EXERCISE

7. Fabric Testing

(08 hrs)

- a) Sampling Methods -
Random Sampling, Biased Sampling
- b) Fabric shrinkage:
Definition, reason, Importance, To determine fabric shrinkage
calculation of fabric shrinkage
- c) Crease Recovery: Definition, Importance, determination of crease recovery property of a fabric To determine fabric crease recovery
- d) Drapability: Definition, Importance, determination of drapability of a fabric To determine fabric drapability
- e) Underestimating of fabric bending properties, fabric thickness, fabric weight, fabric tearing strength To determine fabric bending properties, fabric thickness, fabric weight, fabric tearing strength

8. Care of textile products: (04 hrs)

- a) Standard care terminology for laundering, washing, dry-cleaning, bleaching, drying, ironing and pressing, storage
- b) Care Label: Understanding role of care labels, types of care labels, care label symbols, placement of labels in wearing apparel, Government labeling regulations for textile apparel products Collect different type of garment care labels
- c) Fabric stains: Common fabric stain problems and their removal To remove stains from most common types of textile materials

Note: At the end of second semester, students are required to prepare a swatch file, which will have the following details:

- i) Fabric Swatch - 5" x 5" or 10" x 10"
This swatch should be selected on following basis:
 - a) Fiber type
 - b) Yarn type
 - c) Processing type of fabric (Dyed or Printed)
 - d) Fabric finishing
- ii) Production Cost/mt.
- iii) Available width of fabric
- iv) Type of packaging
- v) Place (City/Area of Manufacture)

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ASSIGNMENT

Prepare a catalogue of fabric samples of fabric points consisting of different types and their characteristics

INSTRUCTIONAL STRATEGY

The teacher may develop master samples to demonstrate various processes. The students may be asked to prepare swatch files. The students should be taken for a visit to textile testing laboratory, knitting, dyeing and printing industries to familiarize with the various processes.

RECOMMENDED BOOKS

1. Understanding Textiles by Phyllis Fortora, Macmillan Publishing Co. New York
2. Modern Textiles by Rothy Siebert Lyle, Wiley John & Sons, Inc. New York
3. Encyclopedia of Textiles, Fibres and Non-woven Fabrics
4. Textiles Fiber to Fabric - P Corbman, McGraw-Hill Book Co, Inc. New York
5. Fabric Science by Joseph Pizzuto, A&C Black Publishers Ltd. New York
6. Fabric Defects (Causes and Remedies) by SS Satsangi, Usha Publishers, New Delhi
7. Managing Quality in the Apparel Industry - PV Mehta and SK Bhardwaj
8. Clothing, Textiles and Their Care by Dr. Rajwinder K. Randhawa, Happer & Row Publishers, New York
9. Clothing, Textiles and Laundry by Sushma Gupta, Neeru Garg and Renu Saini, Kalyani Publishers, New Delhi
10. A Text Book of Home Science by Dr. Neelam Grewal, Wiley Publishers, New York
11. Stain Removal by S S Satsangi
12. *Garment Finishing and care Labelling*
by SS Satsangi, Usha Publishers, New Delhi

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2.3 INDIAN TRADITIONAL TEXTILES

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RATIONALE

The students of Fashion Design should know and acquire relevant skills in embroidery techniques of different types of traditional Indian embroideries and textiles-woven, dyed/printed, painted. The subject aims at developing skills in various types of stitches, traditional embroidery and placement of embroidery on different garments.

DETAILED CONTENTS

THEORY

PRACTICAL EXERCISE

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| <p>1</p> <p>Embroidered Techniques (6 hrs)</p> <p>a) General stitches – definition, types & uses</p> <p>b) Embroidery stitches – definition, types & uses</p> | <p>Preparation of samples of various stitches (6" x 6" ready sample size) Basting, Back, Hemming, Blanket, Run and Back, Buttonhole</p> <p>Making one sample each of consisting of embroidery stitches - Stem, Chain, Satin, Long and short, Cross, Bullion, Herring bone, Feather, Web stitching, Smocking</p> |
| <p>2</p> <p>Embroidered Textiles (12 hrs)</p> <p>Study of following embroidered textiles with reference to Historical significance, Construction techniques, Styles, Textures, Colour and Motifs, Centres of production:</p> <ul style="list-style-type: none">a) Kantha of Bengalb) Kasuti of Karnatakac) Chikankari of Uttar Pradesh.d) Zardozi of Uttar Pradeshe) Chamba of Himachal Pradeshf) Sindhi/mirror work from Gujaratg) Kashida and aariwork of Kashmirh) Phulkari of Punjabi) Appliqué of Orissa | <p>Field visits to various places like Crafts Museum, Weaver's Service Centre, Art Galleries and State / Cottage Emporium to collect the fabric swatches of different Embroidered Textiles and present work in a file.</p> |

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THEORY

PRACTICAL EXERCISE

3 Woven Textiles

Study of following woven textiles with reference to Historical significance, Construction techniques, Styles, Textures, Colour and Motifs, Centres of production:

- a) Brocades,
- b) Chanderi,
- c) Paithani/Pitamber,
- d) Maheshwari,
- e) Kanchiwaram,
- f) Patolas,
- g) Pochampalli,
- h) Ikat,
- i) Namdas and shawls of Kashmir.

(12 hrs)

Field visits to various places like Crafts Museum, Weaver's Service Centre, Art Galleries and State / Cottage Emporium to collect the fabric swatches of different Woven Textiles and present work in a file.

4 Printed & Painted Textiles

Study of following Printed Textiles with reference to Historical significance, Construction techniques, Styles, Textures, Colour and Motifs, Centres of production

- a) Sanganeri prints,
- b) Bagru prints,
- c) Tie and Dye – Laharia and Bandhunis
- d) Kalamkari,
- e) Madhubani prints

(6 hrs)

Field visits to various places like Crafts Museum, Weaver's Service Centre, Art Galleries and State / Cottage Emporium to collect the fabric swatches of different printed & painted textiles and present work in a file.

Note: Students should be taken for field visits to various production centres to show the samples of the above mentioned textiles (embroidered, woven, dyed/printed and painted). They may also be taken for field visits to various places like art galleries/museums and present work in a file.

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2.4 BASIC PATTERN MAKING AND STYLE INTERPRETATION - II

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RATIONALE

The students should know various considerations in making of garments, scope and importance of drafting and pattern making so that they are able to interpret the style and make the patterns for various components of garments such as collars, yokes, pockets, sleeves, cuffs, plackets, neckline variations. The subject therefore deals with basics of pattern making and styling of garments.

DETAILED CONTENTS

| THEORY | | PRACTICAL EXERCISE |
|--------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 1 | Different types of collars - Classification - Uses - Adaptations | (8 hrs) Drafting of collars - peter pan, sailor's, cape, chinese, convertible, shawls, revers, stand and fall |
| 2 | Different types of yokes – functional and decorative Uses in gents and ladies garments | (12 hrs) Drafting of yokes; round, V, sweet-heart, straight, glass, rectangle |
| 3 | Different types of pockets Precautions in fixing pockets Style of pockets | (12 hrs) Single and double flip pocket, welt pocket, in-seam, inset pocket |
| 4 | Sleeve variations | (4 hrs) Preparation of basic sleeve block and practice on various types of Sleeve (flared, leg-o-mutton, bishop, cap and puff) |
| 5 | Combination Sleeve Variation | (4 hrs) Practice on types of sleeve (raglan, kimono, dolmon & magyar) |
| 6 | Plackets | (3 hrs) Preparation of placket variations – two piece, tuck in, etc |
| 7 | Neckline Variations | (4 hrs) Preparation of neckline variations – Boat, square, sweet heart, jewel etc |
| 8 | Drafting of cuffs | (2 hrs) Practice on preparation of basic cuffs and variations |

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INSTRUCTIONAL STRATEGY

The students may be taken to the nearby field organization to demonstrate various pattern making and style interpretation processes

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Helen Joseph Armstrong
2. The ABC's of Grading by Murray Sachse
3. Basic Pattern Skills for Fashion Design by Bernard Zamkoff
4. Design Apparel Through the Flat Pattern by Ernestine Kopp
5. Pattern Cutting and Making up by Martin Shoben
6. Pattern Making by Wilfred Aldrich - All Versions
7. Pattern Making by Natale Bray
8. Pattern Making by Gerry Cooklin
9. Metric Pattern Cutting for Women's Wear by Winifred Aldrich
10. Metric Pattern Cutting for Men's Wear by Winifred Aldrich

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2.5 FASHION ILLUSTRATION - II

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RATIONALE

The skill in fashion illustration is essential for the students of Fashion Design to develop the creativity and ability to illustrate different types age groups of children. After going through this subject, the student of Fashion Design will be able to illustrate different types of children figures.

Illustration practice with various dry and wet colour mediums (water proof inks, colour pencil, water colour, poster colour, crayons, oil pestle, photo colours) to render, depict various fabric textures like velvet, organza, organdy, georgette, cotton, jute, silk, satin, knitted, net, etc.

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Drawing from a live model/mannequins (01 hrs/week)
2. Drawing of Children Proportion as per age groups (Free Hand sketching) (10 hrs)
 - a) 5 - 7 years
 - b) 7 - 10 years
 - c) 10 - 15 years01 No. each of boy & girl
3. Drawing of different faces, features & Hair styles - Casual, Party (08 hrs)
4. Figure analysis drawing from magazine/photographs (08 hrs)
5. Draping of Kids garments for following age groups (01 No. each of boy & girl)
 - a) 5 - 7 years school uniform (06 hrs)
 - b) 7 - 10 years party wear (06 hrs)
 - c) 10 - 15 years sports wear (06 hrs)
6. Quick sketching with various dry and wet colour mediums. (08 hrs)

RECOMMENDED BOOKS

1. Fashion Drawing -The Basic Principles by Anhe Allen and Julian Seaman
2. Fashion Sketchbook (6th Edition): Bina Abling
3. New Fashion Figure Templates: Over 250 Templates by Patrick John Ireland
4. Creative Fashion Drawing by Noel Chapman & Judith Cheek
5. Sketching by Pratap Mulick
6. 100 Years of Fashion Illustration by Cally Blackman
7. Fashion illustration by Anna Kiper
8. Fashion Design Techniques by Zeshu Takamura

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2.6 GARMENT CONSTRUCTION - II

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RATIONALE

The diploma holders in ^{Design} fashion are supposed to prepare various components of garments such as plackets, neckline variations, sleeves, pocket, so it is very essential that they should be able to fabricate various components of fashion. Hence this subject has been included in the curriculum to develop such competencies in the students. The subject deals with basics of garment construction.

DETAILED CONTENTS

| INSTRUCTIONS FOR PRACTICALS | PRACTICAL EXERCISES |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1. Types of Necklines | Preparation of neckline variations (round, square, cowl, V shape, ruffle, sweet heart, boat) |
| 2. Types of Plackets | Preparation of various types of plackets (tuck in, 2 piece etc) |
| 3. Types of collars | Prepare samples of different types of collars: peterpan, chinese, shawl, sailors, poll, convertible, roll, stand and fall |
| 4. Types of Pockets | Preparation of various types of Pockets (patch, bello) |
| 5. Types of sleeves | Preparation of various types of sleeves (plain, puff, flared, leg-o- mutton, bell, cap, Magyar, kimono, dolman, raglan) |
| 6. Types of Zippers | Practice of attachment of zipper (conventional, separating, invisible) |

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Armstrong
2. Clothing Construction by Doongaji; Raaj Parkashan Ltd., Delhi
3. System of Cutting by Zarapkar
4. Clothing Construction by Evelyn A Mansfield, Hougutan Mifflin 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
7. Fashion Maker by Betty Foster
8. Fashion Clothes- She by Debbie Bliss, Sue Penerill
9. Basic Processes and Clothing Construction by Sherie Doongaji and Raushini Despande
10. Simplicity Revised ABC of Short-Cut Sewing
11. The Brides Sewing Book by Anne Ladbury
12. Stitch by Stitch by Tarstar Books
13. Pattern Cutting and Making up by Martin-Shoben
14. The art of Sewing by Auna Jacob Thomas; UBS Publishers Distributors Ltd., New Delhi

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3.1 GARMENT DESIGN - I

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RATIONALE

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

DETAILED CONTENTS

| THEORY | PRACTICAL EXERCISE |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Review of design through elements and principles of design in relation to garment (02 hrs) | |
| 2. Role & importance of optical illusions in garment designing (02 hrs) | Practical exercises on optical illusions |
| 3. Role & importance of designing of various garment components: (10-hrs) | Designing of the following garment components: |
| a) Different types of Sleeves, b) Necklines, c) Collars, d) Pleats, e) Tucks and Gathers, f) Yokes, g) Waistline, h) Pockets, i) Cuff, j) Plackets and k) Hemlines | a) Different types of Sleeves, b) Necklines, c) Collars, d) Pleats, e) Tucks and Gathers, f) Yokes, g) Waistline, h) Pockets, i) Cuff, j) Plackets and k) hemlines |
| 3. Role & importance of different accessories: (04 hrs) | Designing of following accessories: |
| a) Jewelry b) Bags c) Shoes d) Belts e) Head gear | a) Jewelry b) Bags c) Head gear |

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THEORY

Understand the placements of different construction components in a kid wear based on season, occasion & age group: (04 hrs)

- a) Play wear - Jump suits
(Age 2- 5 years)
- b) Party wear - frocks
(Age 5- 7 years)
- c) Casual wear - Dungarees
(Age 7- 9 years)

PRACTICAL EXERCISE

Designing of kid's wear (02 each)

Prints for children's fabrics can be inspired from shapes such as ribbons, soap bubbles, candies, cartoons etc.

- a) Play wear - Jump suits
(Age 2- 5 years)
- b) Party wear - frocks
(Age 5- 7 years)
- c) Casual wear - Dungarees
(Age 7- 9 years)

RECOMMENDED BOOKS

1. New Encyclopedia of Fashion Details by Patric John Ireland
2. Fashion Sketchbook (6th Edition): Bina Ablang
3. Design for the Real World: Human Ecology and Social Change by Papanek
4. Repeat Patterns: A Manual for Designers, Artists and Architects by Phillips and Bunce
5. Textiles Designs 200 Years of Patterns for Printed Fabrics by Meller and Elffers

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3.2 BASIC PATTERN MAKING AND STYLE INTERPRETATION - III

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RATIONALE

The students are supposed to know how to adopt basic blocks to various garment designs, and layouts. Thus the subject deals with variations of pattern and styling of garments. After going through this subject, the students will be able to draft various components of the garments.

DETAILED CONTENTS

| THEORY | | PRACTICAL EXERCISE |
|-----------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Principles of Dart Dart Manipulation techniques – pivotal and Slash-Spread technique | (4 hrs) | Practice on: - Dividing darts – one into two, three multiple darts - Combining dart |
| 2. Introduction to style interpretation - What is style interpretation? - How it is done? - What are its benefits? | (2 hrs) | Style interpretation of any given design |
| 3. Use of basic block for adaptation and manipulation | (2 hrs) | - Darts converted into tucks, gathers - Princess line |
| 4. Adaptation of basic block to A-line and Panel Dresses | (4 hrs) | Drafting of ladies garments – blouses, A-line kurta (suit), princess panel kurta |
| 5. Skirt Types | (4 hrs) | Prepare patterns for skirt variations (A-line, fully gathered, gored, wrap over, fully pleated etc) |
| 6. Different type of figure defects fitting sequence, various defects and their rectification | (6 hrs) | Practice on: - Tall and thin, tall and stout, short and stout, short and petite, square shoulder, hollow chest corpulent, erect and stooping - Defect analysis and rectification in basic slopper and sleeve patterns related to chest/bust, shoulder, lengths |

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RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Helen Joseph Armstrong
2. The ABC's of Grading by Murray Sacheir
3. Pattern Making For Fashion Design Armstrong
4. Basic pattern Skill for Fashion Design by Bernard Zamkon
5. Design Apparel through the Falt Pattern by Ernestine Kopp
6. Pattern Cutting and Making up by Martin Shoben
7. Metric Pattern Cutting for Women's Wear by Winifred Aldrich
8. Metric Pattern Cutting for Men's Wear by Winifred Aldrich

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3.3 HISTORY OF FASHION - I

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RATIONALE

The students of Fashion Design should understand the significance of our ancient civilizations, the fashion existing in the different periods, their contribution in shaping the present and promoting the future trends in the field of fashion.

DETAILED CONTENTS

- Origin of Clothing: theories – Protection, modesty, Adornment (05 hrs)
- Ancient Indian Civilizations (25 hrs)
- 2.1 Indus Valley Civilization
- Detailed study of dates, significant developments
Women's Costumes-dresses, jewellery, hairstyles, footwear
Men's costumes - dresses, jewellery, hairstyles, footwear
- 2.2 Mauryan and Sunga Period
- Detailed study of dates, significant developments
Women's Costumes-dresses, jewellery, hairstyles, footwear
- Men's costumes - dresses, jewellery, hairstyles, footwear
- 2.3 Kushan Period
- Detailed study of dates, significant developments
Women's Costumes-dresses, jewellery, hairstyles, footwear
- Men's costumes - dresses, jewellery, hairstyles, footwear
- 2.4 Satavahana Period
- Detailed study of dates, significant developments
Women's Costumes-dresses, jewellery, hairstyles, footwear
Men's costumes - dresses, jewellery, hairstyles, footwear
- 2.5 Gupta Period
- Detailed study of dates, significant developments
Women's Costumes-dresses, jewellery, hairstyles, footwear
Men's costumes - dresses, jewellery, hairstyles, footwear

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3. Medieval period

(05 hrs)

3.1 Mughal Period

Detailed study of dates, significant developments

Women's Costumes-dresses, jewellery, hairstyles, footwear

- Men's costumes - dresses, jewellery, hairstyles, footwear

NOTE: A visit to the National Museum, Crafts Museum, Doll Museum, New Delhi

ASSIGNMENT

Preparation of a portfolio/file of selected traditional silhouettes and accessories of all periods

RECOMMENDED BOOKS

1. The dictionary of Costumes by Linda Watson
2. The Guide to Historic Costumes by Karen Baclawski
3. Ancient Indian Costumes by Roshan Alkazi
4. Costume Patterns and Designs by Max Tike
5. History of Fashion by Manmeet Sodhia

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3.4 / GARMENT MANUFACTURING TECHNOLOGY

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RATIONALE

The students are expected to know various types of machinery and equipment used in manufacturing of garments. They should be able to operate and maintain the machinery and rectify the common defects. The subject intends to develop such skills in the students.

DETAILED CONTENTS

THEORY

- 1 Garment Manufacturing Machinery
Introduction to marker planning, spreading, cutting and sewing machines

Hand shears, Straight knife, Round knife, Electric shears, Band knife, Computer-controlled cutting knives, computerized marker planning, spreading and cutting systems

- 2 Seams & stitches

Terminology

Various seam types as per international ASTM, BS standards - Superimposed seam, Lapped Seam, Bound Seam, Flat Seams, Decorative Stitching, Edge Neatening, Applied seams. Single ply construction

Various stitch types as per international ASTM, BS standards - class 100, 200, 300, 400, 500, 600

- 3 Sewing thread
Types, structure, properties, ticket number

- 4 General purpose of sewing machines: Working of sewing machines hand operated, treadle operated and electric operated.

PRACTICAL EXERCISES

(2 hrs)
Visit to garment industry, garment trade fair/exhibition or show relevant video films to understand the various types of marker planning, spreading cutting and sewing machines

(4 hrs)
Demonstrate various types of seams & stitches in the laboratory or visit to a garment manufacturing unit to show various types of stitches

(2 hrs) Physical analysis of different types of sewing thread structure

(1 hrs) Dismantling and assembly of a hand operated, treadle operated and electric operated sewing machine.

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THEORY

PRACTICAL EXERCISES

- 5 Function of different components of sewing machine – throat plate, feed-dog, machine needle, pressure foot (2 hrs) Usage of various components of machines with respect to various operations
- 6 Attachments: Tuckers, hemmer, seam, guide, binders, quitters button hole, attachment folders, trimmers, stackers (2 hrs) Demonstration of sewing machine attachments - Tuckers, hemmer, seam, guide, binders, quitters button hole, attachment folders, trimmers, stackers
- 7 Elementary knowledge of following sewing machines: (4 hrs) Demonstration of parts of various machines or visit to a garment manufacturing unit to study different types of garment manufacturing machines.
- Lock stitch machine
 - Chain stitch machine
 - Over lock machine
 - Button hole machine
 - Zig-zag machine
 - Double needle
 - Bar-tracking machine
 - Blind stitch machine
 - Flat lock
- 8 Alternative Methods of Joining Materials (4 hrs) Visit to garment machinery exhibition/ trade fairs
- Fusing - Requirements of fusing, The fusing process, Means of fusing, Fusing equipment, Methods of fusing.
- Welding and adhesives - Radio frequency welding, Hot air welding Ultrasonic welding, Hot wedge welding, Adhesives
- Process of moulding
- 9 Pressing and Garment Finishing Techniques (4 hrs) Visit to garment machinery exhibition/ trade fairs
- Categories of pressing, means of pressing, pressing equipment and methods – irons, steam presses, press cladding, Control of the pressing process, Creasing machines, Steam air finisher, Steam tunnel, Pleating, Non-iron garments, The state of pressing

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THEORY

- 10 Maintenance & Lubrication
Necessity of preventive periodic and
corrective maintenance

Types of lubricating oil used,
maintenance schedule for lubricating
the machines

- 11 Common defects of sewing
machine- breaking needles, looped
stitches, upper & lower thread
breaking, Feed dog clogging,
puckered seams, skipped stitches,
stitch length variation

- 12 Automation & Latest Developments (2 hrs)
in garment Machinery

PRACTICAL EXERCISES

Cleaning and lubricating of different
types of sewing machines

Rectification of sewing machine
defects

INSTRUCTIONAL STRATEGY

The students should be given exercises on fault finding and repairing the defective machines so that they are able to maintain the garment machinery in proper working condition. Students should be taken for field visits to various garment machinery exhibitions and trade fairs.

RECOMMENDED BOOKS

1. Sewing for the Apparel Industry by Claire Shaeffer
2. Carr and Latham's Technology of Clothing Manufacture by David J. Tyler
3. Sewing threads by G V Rao & R K Gaur
4. Advances in apparel production by Catherine Fairhurst, Woodhead Publishing Limited, Cambridge, England

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RATIONALE

The skill of fashion illustration is essential for the students of Fashion Design to develop the creativity in them. After going through the subject, the student of Fashion Design will be able to illustrate different types of female figures and dresses in different colour media (water proof inks, colour pencil, water colour, poster colour, crayons, oil pastel and photo colours) according to season and occasion. Study and practice of various dry and wet colour mediums in context with various fabric textures like velvet, organza, organdy, georgette, cotton, jute, silk, satin, knitted and net.

DETAILED CONTENTS**PRACTICAL EXERCISES**

- | | |
|----------------------------------------------------------------------------------------|----------|
| 1. Various garment fittings according to figure types – Fitted, Semi-Fitted & Loose | (02 hrs) |
| 2. Garment draping on women's figure | |
| a) Fitted Garments (Western) – | (32 hrs) |
| - Tops and Jeans, | |
| - Shirts and Trousers | |
| - One piece outfit (body clinging) | |
| - Swimming outfit | |
| b) Semi fitted Garments (Indo-western) – | (16 hrs) |
| - Tops/Blouses and Skirts | |
| - Kurta and Pants. | |
| c) Loose Garments (Indian) - | (16 hrs) |
| - Sari and Blouse | |
| - Salwar and Kameez, | |

Note: All work should be done on A3 size sketching pad. Emphasis should be given on various presentation techniques such as preparation of mood board, design board, client details, flat sketches and Illustration board.

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RECOMMENDED BOOKS

1. Fashion Drawing -The Basic Principles by Anne Allen and Julian Seaman
2. Fashion Sketchbook (6th Edition): Bina Abling
3. New Fashion Figure Templates: Over 250 Templates by Patrick John Ireland
4. Creative Fashion Drawing by Noel Chapman & Judith Cheek
5. Sketching by Pratap Mulick
6. 100 Years of Fashion Illustration by Cally Blackman
7. Fashion illustration by Anna Kiper
8. Fashion Design Techniques by Zesha Takamura

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GARMENT CONSTRUCTION - III

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RATIONALE

The diploma holders in Fashion ^{Design} are supposed to fabricate the garments for kids; 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 following kids wears (one each):

1. Zabla
2. Bloomer
3. Jumpsuit/romper
4. Basic skirt
5. A-line frock
6. A party wear frock

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Armstrong
2. Clothing Construction by Doongaji
3. System of Cutting by Zampkar
4. Clothing Construction by Evelyn A Mansfield, Houghton Mifflin Co., Boston
5. Creative Sewing by Allynne Banc; McGraw Hill Book Co., Inc., New York
6. How You Look and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York

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4.1 HISTORY OF FASHION - II

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RATIONALE

The students of Fashion Design are supposed to understand the fashion developments of the Western Civilizations and to draw the inference of their influence on costumes of the World.

DETAILED CONTENTS

Introduction to the Civilizations

1. Egyptian costumes (4 hrs)
 - a) Detailed study of Dates, significant, developments, mummification
 - b) Women's costumes – Dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – Dresses, Jewellery, hairstyle, footwear
2. Greek Costumes (4 hrs)

Detailed study of Dates, significant, developments,
Women's costumes – Dresses, jewellery, hairstyles, footwear
Men's costumes – Dresses, Jewellery, hairstyle, footwear
3. Roman Period (4 hrs)

Detailed study of Dates, significant, developments,
Women's costumes – Dresses, jewellery, hairstyles, footwear
Men's costumes – Dresses, Jewellery, hairstyle, footwear
4. Byzantine Period (3 hrs)

Detailed study of Dates, significant, developments,
Women's costumes – Dresses, jewellery, hairstyles, footwear
Men's costumes – Dresses, Jewellery, hairstyle, footwear
5. Renaissance Period (6 hrs)

Detailed study of Dates, significant, developments,
Women's costumes – Dresses, jewellery, hairstyles, footwear
Men's costumes – Dresses, Jewellery, hairstyle, footwear

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6. Victorian Period

(6 hrs)

Detailed study of Dates, significant developments,
Women's costumes – Dresses, jewelry, hairstyles, footwear
Men's costumes – Dresses, Jewelry, hairstyle, footwear

7. French Costumes

(6 hrs)

- a) Detailed study of Dates, significant developments,
- b) Women's costumes – Dresses, jewelry, hairstyles, footwear
- c) Men's costumes – Dresses, Jewelry, hairstyle, footwear

Note: Classics movie like Cleopatra, Ten Commandments, Julius Ceaser, Helen of Troy, Elizabeth, Titanic should be shown to the students depicting fashion of different periods

ASSIGNMENT

Preparation of a file/Portfolio of selected fashion silhouettes and accessories of all periods

RECOMMENDED BOOKS

1. What People Wore – A visual History of Dress from Ancient Times to 20th Century America by Douglas Gorsline
2. 20,000 Years of Fashion – The History of Costumes and Personal Adornment
3. Yoge 20th Century Fashion by Linda Watson
4. The 20th Century History of Fashion – Skirts and More Skirts by Florida Gondolfi
5. The World of Flags (A Pictorial History) by William Crampton
6. Esquire's Encyclopedia of 20th Century – Men's Fashion

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4.2 GARMENT DESIGN - II

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RATIONALE

The students should be able to design female garments based on season, occasions with proper selection of fabrics textures and colours incorporating latest market trends.

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Create designs for the following women's garments in different colour mediums:

a) Indian wear

- Saree Blouses for formal evening wear
- Salwar-Kameez / Kurta-Churidar for day wear
- Lehenga Choli for party wear

b) Western wear

- Trousers and top for office wear
- Cocktail dress for a formal evening occasion
- Action wears for sport's activities

Note:

1. Inspiration can be taken from any of the sources such as Nature, Architecture, Animal/bird skin texture etc.
2. Market survey for latest fabrics, trends, colours etc.
3. All designs should be prepared on A3-size sheets.
4. Emphasis should be given on various presentation techniques such as preparation of text board, design board, client details, flat sketches and Illustration board.

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.

RECOMMENDED BOOKS

1. Designer's guide to color (All volumes) by Jeanne Allen
2. Fashion Drawing Designs; Magazine of Thailand
3. Pattern Designs for Haute Couture Volume - I
4. Fashion Drawing - The Basic Principles by Anne Allen and Julion Seaman
5. Latest Fashion Style by Winter Hiver
6. Jasmine's "New Look, On Indian Fashion Scene"
7. Lifestyles: Fashion Styles by Katheryn Samuel
8. Spring and Summer Collection; Tokyo, New York
9. John Pattick Ireland - All volumes

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4.3 PATTERN GRADING AND MARKER MAKING

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RATIONALE

The students are supposed to perform the jobs of pattern maker when engaged in garment manufacturing. After going through this subject, students will be able to grading of patterns into different sizes, prepare marker making, spreading of fabrics and preparing estimates of fabric consumption, and all related technical aspects aiding the preparation of proper cut components and garment manufacturing.

DETAILED CONTENTS

| INSTRUCTIONS FOR PRACTICALS | PRACTICAL EXERCISES |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1. Introduction and importance of grading | Exercises on methods of grading a) Stack b) Track |
| 2. Different types of grading a) Horizontal b) Diagonal c) Vertical | Exercises on grading according to: a) Horizontal b) Diagonal c) Vertical |
| 3. Grading of adult basic blocks a) Front and back bodice b) Sleeve c) Back and front skirt | Exercises on grading of: a) Front and back bodice b) Sleeve c) Back and front skirt |
| 4. Marker Planning: Introduction, glossary of terms, quality parameters of fabric for marker making, designs-asymmetry & symmetry in fabric and garments. Precautions for marker making of stripes & check fabric, asymmetry & symmetry in fabric and garments. Marker efficiency | Practice on marker making of different garments – shirt, trouser, skirt, blouse |

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INSTRUCTIONS FOR PRACTICALS

PRACTICAL EXERCISES

5. Fabric spreading or Laying Techniques:

Practical exercise and demonstration.

a) Objectives, Fabric identification, construction, elasticity, visual Characteristics-single faced, reversible, double faced, symmetry.

b) Types of Lay Plan- Half Garment Lay, Whole Garment Lay, Single Size Lay

c) Types of lay - single ply, multiple ply, stepped lay

d) Forms of spreading - one way, face to face, two way

6. Costing and estimating:

Making estimates of materials on different width of cloth

Consumption of fabric & individual garment, Lay estimation & Layout preparation.

RECOMMENDED BOOKS

1. Pattern Making for Fashion Design by Helen Joseph Amstrong
2. The ABC's of Grading by Murray Sacheir
3. Basic Pattern Skills for Fashion Design by Bernard Zamkoff
4. Design Apparel Through the Flat Pattern by Ernestine Kopp
5. Metric Pattern Cutting for Women's Wear by Winifred Aldrich
6. Metric Pattern Cutting for Men's Wear by Winifred Aldrich
7. Pattern Grading for Women's Clothes: The Technology of Sizing by Gerry Cooklin
8. Pattern Grading for Men's Clothes by Gerry Cooklin

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4.4 FASHION ILLUSTRATION - IV

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RATIONALE

The skill in fashion illustration is essential for the students of Fashion Design to develop the creativity in them. After going through this subject, the student of Fashion Design will be able to illustrate different types of male figures and dresses in different colour media (water proof inks, colour pencil, water colour, poster colour, crayons, oil pastel and photo colours) according to season and occasion.

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Illustration of Male figures drawing (14 hrs)
 - a) Difference between Normal & Fashion figures - 8 Head & 10 Head figures
 - b) Block Figures & Bone Structure
 - c) Figure Muscle view/Fleshing - Front, $\frac{3}{4}$, back and side view

2. Illustration of Male garment draping styles (02 models each) (20 hrs)

(Inspiration of design ideas can be taken from dots, stars, stripes, checks, plaids, calligraphy, abstract patterns, camoufla animal patterns, paisley design, mosaic patterns, etc.)

 - a) Casual wear
 - b) Formal wear
 - c) Sports wear
 - d) Wedding/Party wear

Note: Preparation of designs on A3-size sheets.

RECOMMENDED BOOKS

1. Fashion Drawing -The Basic Principles by Anne Allen and Julian Seaman
2. Fashion Sketchbook (6th Edition): Bina Abling
3. Male Fashion Figure Templates: Over-250 Templates by Patrick John Ireland
4. Creative Fashion Drawing by Noel Chapman & Judith Cheek
5. Fashion Design by Pratap Mulick
6. 160 Years of Fashion Illustration by Cally Blackman
7. Fashion Illustration by Anna Kiper
8. Fashion Design Techniques by Zeshu Takamura

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RATIONALE

The skill in draping is essential for the diploma holders in Fashion ^{Design} so that they are able to express design ideas by a three dimensional process of pattern making

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Introduction to:
 - Equipment needed
 - Grain
 - Seam allowances
 - Preparation of fabric
 - Dress form
2. Preparation of basic Patterns for:
 - Basic bodice – front and back
 - Basic bodice variation – yoked, gathered, pleated with multiple darts
 - Basic skirt – front and back
3. Preparation of various variations of bodice: princess line, bask, peplums
4. Preparation of cowls in bodice
5. Preparation of dress style

RECOMMENDED BOOKS

1. Draping for Fashion Design by Jaffe, Hilde
2. Fashion from Concept to Consumer by Stephens
3. Wrap & drape Fashion by Elisabetta 'Kuky' Drudi
4. Fashion illustration by Anna Kiper

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4.6 CAD IN FASHION DESIGN - I

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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.

This course focuses on the usage of computer graphics in achieving the results for Fashion Designing. It deals with various techniques that a designer uses to have an upper hand over manual designing through latest software.

The objective is to expose professionals and to meet the needs of the users by complementing their knowledge, skills, ability and creativity in the field of fashion to computer aided designing techniques and their application in the industry. A lot of flexibility is available with the use of different software e.g. color blending, mixing, fabric construction, figure illustration, development of the motif and prints, background treatment, presentation, special effects can be simulated and printed out with absolute accuracy.

DETAILED CONTENTS

PRACTICAL EXERCISES

(Course: Use of Corel Draw and Photoshop and Illustrator)

1. Study in detail the different tools of Corel Draw and Photoshop
2. Create a composition of geometrical shapes in 8" x 8" block
3. Design a traditional and a contemporary motif
4. Drawing of female flesh figures
5. Design a present print
6. Create different texture effects
7. Design a receptive wear along with accessories
8. Design a costume worn by a famous fashion model. Scan his/her figure and design the texture and the color combination of the dress.
9. Prepare a mood/story board according to the selected theme
10. Prepare a logo and create a brochure for your own label

Note:

- a) Reference from Indian and Foreign Libraries are required
- b) Visits to designer workshops
- c) Visits to fashion shows and exhibitions, fairs etc
- d) Attend seminars regarding export promotion, industry strategies etc
- e) Latest information through media
- f) Personal interaction with the apparel industry people

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RECOMMENDED BOOKS

1. Literature from the supplier of each software can be consulted
2. The CorelDraw Wow! Book by Linnea Dayton, Shane Hunt, Sharon Steuer
3. CorelDraw! 5 for Dummies by Deke McClellan
4. Bring It Home with CorelDraw: A Guide to In-House Graphic by Roger Wambolt
5. Photoshop Elements 11 For Dummies by Barbara Obermeier and Ted Padova
6. Photoshop CS6 Beta New Features: Digital Classroom Preview by Jennifer Smith
7. Photoshop CS6 For Dummies by Peter Bauer
8. Illustrator CS6: Visual QuickStart Guide by Peter Lourekas and Elaine Weinmann
9. Learning Photoshop - Ramesh Bangia
10. Adobe illustrator - Marianne Centner & France Vereker
11. Corel Draw - BPB Publication
12. Adobe Photoshop - BPB Publication (Latest)
13. Adobe Illustrators (latest)

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4.7 GARMENT CONSTRUCTION -IV

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RATIONALE

The diploma holders in ^{Design} Fashion are supposed to fabricate the garments for ladies; 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 following women's wears (one each):

1. Petticoat
2. Lady's knee blouse
3. Lady's midwar kameez
4. Lady's kalidar kurta and churdiar pyjama
5. Lady's bhanga choli
6. Men's shirt for women

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Amstrong
2. Clothing Construction by Doongaji
3. System of Cutting by Zampkar
4. Clothing Construction by Evelyn A Mansfield, Houghton Mifflin Co., Boston
5. Creative Sewing by Allynie Bane; McGraw Hill Book Co., Inc., New York
6. How to Make a Coat and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York

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5.1 PRODUCTION MANAGEMENT AND QUALITY CONTROL

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RATIONALE

Diploma holders in ^{Design} Fashion 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. Production Planning and Control (6 hrs)
 - a) Types of production processes, job, batch and mass production
 - b) Raw material planning and allocation
 - c) Process planning and process sheet
 - d) Methods of production control
2. Plant Layout (6 hrs)
 - a) Concept of plant layout
 - b) Types of layout (process, product and combination type) their characteristics
 - c) Factors affecting plant layout
 - d) Methods of plant layout
 - e) Workstation design: Factors considered in designing a work station
3. Material Handling (4 hrs)
 - a) Introduction and functions of material handling
 - b) Material handling equipment – their selection
 - c) Safety requirements while using material handling equipment
4. Environmental Engineering (4 hrs)
 - a) Ecology
 - b) Factors causing pollution
 - c) Effects of pollution on Human health
 - d) Air pollution and control act
 - e) Water pollution and control act
 - f) Pollution control equipment
 - g) Noise pollution and its control

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PART B: QUALITY CONTROL

5. What is Quality

(6 hrs)

- a) Need for quality control
- b) Quality Control
- c) Quality Assurance
- d) Quality Standard

6. What is Inspection

(8 hrs)

- i) Different types of inspection
- ii) Various methods
- iii) Role of operation and inspector in inspection
- iv) Major/minor defects classification
- v) Fabric & apparel inspection system – 4 point, 10 point system
- vi) Criteria of rejection/acceptance
- vii) Accepted quality level (AQL)
- viii) Stain removal, washing, dry cleaning, ironing, labeling and packaging

7. Standards and Codes

(2 hrs)

- a) Level of standards,
- b) Types of standards,
- c) Advantage of standards
- d) Characteristics of codes,
- e) Coding system

8. National Codes

(2 hrs)

- a) Certification of BIS,
- b) Importance of ISI codes

9. International codes

(6 hrs)

- a) Introduction to ISO 9000 system
- b) What is ISO and related quality serials
- c) Benefits of ISO 9000
- d) ISO 9000 concept and its evolution and implications
- e) Total quality management (TQM)

LIST OF PRACTICAL

1. Analyzing test reports as per given specification of the buyer
2. Demonstration of basic fabric defects
3. Identifying sewing, finishing and packaging defects
4. Care label
 - Collection of wash care labels
 - Sketching and understanding of symbols

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INSTRUCTIONAL STRATEGY

The teacher should take students to garment industries to show them various production processes and maintenance of quality of garments in the industry

RECOMMENDED BOOKS

1. Managing Quality by S K Bhardwaj and P V Mehta; New Age Publisher, Delhi
2. ISO 9000 -Textile Committee Manual
3. ISO 9000 Work Instructions on Readymade Garments by Textile Committee
4. Quality assurance in apparel manufacturing, NITRA
5. SA 8000, NITRA
6. Fabric Defects - causes and Remedies, by S.S. Stasangi, Usha Publishers, Delhi
7. Garment Finishing and Care Labelling, by S.S. Stasangi, Usha Publishers, Delhi
8. Stain Removal for Textile and Garments, by S.S. Stasangi, Usha Publishers, Delhi

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5.2 ADVANCE PATTERN MAKING - I

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RATIONALE

The students are supposed to perform the jobs of pattern maker when engaged in garment manufacturing. 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. Lady's Shirts
 - Drafting of lady's shirt
 - Adaptation of the lady's shirt to various styles
 - Developing patterns of the various styles (3 styles)
2. Lady's Trousers
 - Drafting of lady's trousers
 - Adaptation of lady's trousers to various styles
 - Developing patterns of the various styles (3 styles)
3. Drafting & pattern making of Lady's Jacket
4. Drafting & pattern making of Lady's coat

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Helen Joseph Armstrong
2. The ABC's of Grading by Murray Sacheir
3. Basic Pattern Skills for Fashion Design by Bernard Zamkoff
4. Design Apparel Through the Flat Pattern by Ernestine Kopp
5. Metric Pattern Cutting for Women's Wear by Winifred Aldrich
6. Metric Pattern Cutting for Men's Wear by Winifred Aldrich

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5.3 CAD IN FASHION DESIGN-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 major objective of this course is to expose the students to different softwares available in the field of garment technology, so that they are able to use those software in the design and construction of various garments

DETAILED CONTENTS

PRACTICAL EXERCISES

1. To create the following using the design software (Fashion Studio/ Design Studio):
 - a) Prints,
 - b) Textures,
 - c) Repeats,
 - d) Color ways
 - e) Drapes
2. Knowledge and operation of any one of the following CAD softwares used for pattern making, grading and marker making:
 - a) TUKAcad (Tukatech Inc., Los Angeles)
 - b) Modaris & Diamino (Lectra, France)
 - c) AccuMark (Gerber Technology, USA)
 - d) Any other latest pattern making, grading and marker making CAD software available in market.
3. Practical exercise on the following using any one of the above CAD software:
 - a) Pattern making,
 - b) Grading
 - c) Marker making

INSTRUCTIONAL STRATEGY

The students should be allowed to use and operate any one software for development of patterns, grading and marker making of different garment items. The teacher may arrange expert lectures/demonstration on CAD exercises by inviting professionals from the garment industry.

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RECOMMENDED BOOKS

1. Computer-Aided Pattern Design & Product Development by Alison Beazley, Terry Bond
2. Computer Aided Apparel Pattern-making Application by Thong Hwee Koh
3. Pattern cutting for clothing using CAD; How to use Lectra Modaris pattern cutting software (Wood head Publishing) by Maggie Stott
4. CAD for Fashion Design by Renee Weiss Chase, Prentice-Hall, Inc.
5. CAD in Clothing and Textiles by Winifred Aldrich, Blackwell Science Ltd.
6. Fashion design on Computers by M.Kathleen Cloussy, Prentice-Hall, Inc.
7. Computer Aided Fashion Design Using Gerber Technology by Jane D. Espinoza-Alvarado, Fairchild Publications, Inc.

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5.4 GARMENT CONSTRUCTION - V

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RATIONALE

The diploma holders in Fashion ^{Design} are suppose to fabricate the garments for men; 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 following garments (one each):

1. Men's pajama
2. Men's kurta
3. Unisex shirt
4. Unisex Trouser
5. Unisex Jeans / Capri pants
6. Unisex jacket

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Armstrong
2. Clothing Construction by Doongaji; Raj Parkashan, Delhi
3. System of Cutting by Zarakar
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

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5.5 MINOR PROJECT WORK

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RATIONALE

Minor project work aims at exposing the students to industrial/field practices so as to have an appreciation of size, scale and type of operations; and work culture in the industries. Also the students will be able to comprehend concepts, principles and practices taught in the classroom and their application in solving field/industrial jobs.

DETAILED CONTENTS

For effective planning and implementation of this practical training, it is suggested that polytechnic should:

- a) Identify adequate number of industrial/field organizations where students will be sent for visits.
- b) Prepare a workbook (which can be used by students) for guiding students to perform definite task during the practical training.
- c) Identify teachers who would supervise the students and provide guidance during practical training.

The teachers along with industry personnel will conduct performance assessment of students. The criteria for assessment will be as below:

- | | |
|--------------------------------------|------|
| a) Punctuality and regularity | 15 % |
| b) Initiative in learning new things | 20 % |
| c) Report Writing | 25 % |
| d) Presentation/Seminar | 40 % |

SUGGESTED THEMES

Hypothetical theme oriented towards market e.g. casual/sports/corporate wear etc.

It is required to be a group of minimum 4-5 students and each group would pick up a concept as following:

- i) Individually the students would design/complete outfit each (e.g. upper, lower, over garment, head gear, footwear & all others)
- ii) However they are required to make a group presentation of one complete collection of 5 outfits.

Note: Team spirit/group activity is to be given importance and understanding each others potential to create a collection. Fabric/colour/detailing has to be in continuation as one collection.

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5.6 SEMINAR RELATED TO INDUSTRIAL TRAINING

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RATIONALE

The students of Fashion Design should be able to visualize the practical workflow in the industry and shall be in a position to set up their own enterprise at the culmination of the course.

SUGGESTED TASKS

1. Understanding of domestic/export garment industry
2. Working of various departments i.e. from sampling to production of garments
3. Understanding the company profile.
4. Work load of various departments including layout plan.
5. Working conditions.
6. Approximate turn over
7. Finance requirement in setting up of the company

Note:

- i) Students are required to select a Boutique/domestic garment production house for minimum of 4 weeks/one month for training.
- ii) At the end of the training, the students are required to prepare a report which has to be submitted.

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6.1 APPAREL RETAILING AND MERCHANDIZING

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RATIONALE

Some diploma holders of Fashion Design may find employment in export houses and apparel merchandizing agencies. After studying this subject the students will understand marketing in domestic and international markets and also able to forecast the future trends in fashion. It focuses attention on apparel industry giving thorough knowledge of merchandizing.

DETAILED CONTENTS

1. Fashion and apparel Retailing (04 hrs)
 - i. Concept of retailing
 - ii. Costing Pricing – cost price, selling price, backward costing
 - iii. Introduction to retail organisations
 - Departmental store
 - Discount stores
 - Specialty stores
 - iv. Introduction to retail organisations
 - v. Concept of wholesale merchants and agents
2. Marketing management (06 hrs)

Functions of marketing, marketing mix, elements of marketing mix, factors influencing marketing mix, market research, sales forecasting, nature of marketing
3. Sales, promotion policies – advertisement etc (02 hrs)
4. Apparel Industry Profile (06 hrs)
 - a) Current Indian export and India's position in the world apparel/textile market
 - b) Main centres of activity along with their specialties – Mumbai, Chennai, Ludhiana, Delhi etc.
 - c) Organizational structure of export house, buying houses and domestic companies
 - d) Buyer classification and buying network in exports
 - e) Understanding of the quota system

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5. Fashion forecasting (6 hrs)
- Concept of Fashion forecasting
 - Spotting fashion trends
 - Sources of forecasting information - fashion fairs, fashion forecast magazine, market research
 - Study of current fashion trends in various fashion cities - Mumbai, New York, Paris, London, Italy
6. Apparel merchandizing (12 hrs)
- Nature of fashion, mis-concepts of fashion
 - Fashion terminology and components
 - Study of fashion principles and fashion cycle
 - Introduction to fashion marketing and merchandizing principles - retail, whole sale, boutique, designer - wear, couture, pret-o-porter (ready to wear), haute couture (hi-fashion)
 - Study of domestic and international market - past, present and future scenario - evolution of fashion
 - Factors affecting fashion interest and demand
 - Factors affecting fashion movement
 - Role of - Freelancing, fashion fairs / Trade shows, Fashion museums, visual merchandising/Window displays, virtual merchandising
6. Sourcing (02 hrs)
- Market survey
 - Factors in deciding fabrics, price, quality, lead time
 - Trim sourcing - buttons, beads, laces, labels, tags, packaging
7. Pricing (06 hrs)
- Concept, types and importance of pricing
 - Profit maximization and pricing

ASSIGNMENT

- Prepare a fashion forecast for different seasons (predicting fabrics colors, trends)
- Prepare a designer's profile (National/International)
- Design a window display for a fashion store/boutique selecting any theme
- Prepare a mood/story board

RECOMMENDED BOOKS

- Fashion from Concept to Consumer
- Fashion and Retail Merchandising
- Fashion Merchandising by Stone & Samples
- Ready to Wear Apparel Analysis by Petty and Brown
- Business Organistaion and Management by-B P Singh & T N Chhabra
- Consumer Behavior in Fashion by Michael R. Solomon, Nancy Rabolt
- Apparel Merchandising: The Line Starts Here by Rosenau & Wilson

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6.2 INDUSTRIAL MANAGEMENT

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RATIONALE

The knowledge of this subject is required for all technicians who wish to choose industry/field as their career. This course is designed to develop understanding of various functions of management, role of workers and professionals and providing knowledge about safety and labour welfare.

DETAILED CONTENTS

1. Principles of Management (6 hrs)
 - a) Management, different functions of management: planning, organizing, coordination and control
 - b) Structure of an industrial organization
 - c) Functions of different departments
 - d) Relationship between individual departments

2. Human and Industrial Relations (6 hrs)
 - a) Human relations and performance in organization
 - b) Understand self and others for effective behaviour
 - c) Behaviour modification techniques
 - d) Industrial relations and disputes
 - e) Relations with subordinates, peers and superiors
 - f) Characteristics of group behaviour and trade unions
 - g) Mob psychology
 - h) Grievance, handling of grievances
 - i) Agitations, strikes, lockouts, picketing and gherao
 - j) Labour welfare schemes
 - k) Workers' participation in management

3. Motivation (4 hrs)
 - a) Factors determining motivation
 - b) Characteristics of motivation
 - c) Methods of improving motivation
 - d) Incentives, pay promotion, rewards
 - e) Job satisfaction and job enrichment

4. Leadership (4 hrs)
 - a) Need for leadership
 - b) Types of leadership
 - c) Functions of a leader
 - d) Factors for accomplishing effective leadership
 - e) Manager as-a leader

5. Human Resource Development (4 hrs)
 - a) Introduction
 - b) Staff development and career development
 - c) Training strategies and methods

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6. Wage Payment (4 hrs)
- Introduction
 - Classification of wage payment scheme
7. Labour, Industrial and necessity of Industrial Legislation (4 hrs)
- Importance and necessity of Industrial Legislation
 - Types of Labour Laws and disputes
 - Brief description of the following acts: The Factory act 1948, Payment of wages act 1936, Minimum wages act 1948, workman's compensation act 1923, Industrial disputes act 1947, Employees State Insurance Act 1948, Provident fund act
 - Various types of Taxes – Production Tax, Local Tax, Sales Tax, Excise Duty, Income Tax
 - Labour welfare schemes
8. Accidents and Safety (4 hrs)
- Classification of accidents: According to nature of injuries: Fatal temporary: According to event: according to place
 - Causes of accidents Psychological, physiological and other industrial hazards
 - Effects of accidents
 - Accidents prone workers
 - Action to be taken in case of accidents with machines, electric shock, road accidents, fires and erection and construction accidents
 - Safety consciousness
 - Safety procedures
 - Safety measures – Do's and Don'ts
 - Safety Publicity
9. Professional Ethics (4 hrs)
- Concept of ethics
 - Concept of professionalism
 - Need for professional ethics
 - Code of professional ethics
 - Professional bodies and their role
 - Requirement of social accountability (SA 8000)
8. Entrepreneurship Development (4 hrs)
- Concept of entrepreneurship
 - Need of entrepreneurship in the context of prevailing employment conditions of the country
 - Preparation of project report
 - Intellectual Property Rights

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RECOMMENDED BOOKS

1. A Handbook of Entrepreneurship, Edited by BS Rathore and Dr JS Saini; Aapga Publications, Panchkula (Haryana)
2. Entrepreneurship Development by CB Gupta and P Srinivasan, Sultan Chand and Sons, New Delhi
3. Environmental Engineering and Management by Suresh K Dhamija, SK Kataria and Sons, New Delhi
4. Environmental and Pollution Awareness by Sharina BR, Satya Prakashan, New Delhi
5. Thakur Kailash, Environmental Protection Law and policy in India: Deep and Deep Publications, New Delhi
6. Handbook of Small Scale Industry by PM Bhandari
7. Marketing Management by Philip Kotler, Prentice Hall of India, New Delhi
8. Industrial management by N. Mohan, and AP Verma, SK Kataria and Sons, Nai Sarak, Delhi-110006
9. Total Quality Management by Dr DD Sharma, Sultan Chand and Sons, New Delhi.
10. Principles of Management by Philip Kotler TEE Publication
11. Intellectual Property Rights and the Law by Dr. GB Reddy.

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6.3 ADVANCE PATTERN MAKING - II

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RATIONALE

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

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Garment spec sheet – Need, importance
2. To understand the various garment spec sheets regarding their
 - Garment name,
 - Style no.,
 - Measurements,
 - Trimmings,
 - Accessories,
 - Flat sketch-front and back,
 - Fabric swatch,
 - Color ways
3. Preparing Industrial Patterns as per the spec sheet for the following garments:
 - Lady's one-piece dress
 - Lady's skirt
 - Lady's shirt
 - Lady's trouser
 - Men's trouser
 - Men's waistcoat
 - Lady's coat
4. Development of specsheet for any two garments.

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Helen Joseph Armstrong
2. The ABC's of Grading by Murray Sacheir
3. Basic Pattern Skills for Fashion Design by Bernard Zamkoft
4. Design Apparel through the Flat Pattern by Ernestine Kopp
5. Metric Pattern Cutting for Women's Wear by Winifred Aldrich
6. Metric Pattern Cutting for Men's Wear by Winifred Aldrich

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RATIONALE

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Art portfolio provides a challenging platform for the students to demonstrate their analytical skills necessary for designing. Thus the student should be able to design a catalogue depending on various design themes for boutiques, domestic and export markets.

DETAILED CONTENTS

PRACTICAL EXERCISES

Design portfolio to be created:

- | | |
|-------------------------------------------------------------------------------------------------------------------------------|----------|
| 1. Theme selection | (09 hrs) |
| 2. Preparation of mood board | (03 hrs) |
| 3. Preparation of text board and client details | (03 hrs) |
| 4. Preparation of colour board | (06 hrs) |
| 5. Design and illustrate the 10 garments (as per theme selected) keeping in mind the colour, silhouette, drape / surface etc. | (33 hrs) |
| 6. Preparation of technical flats (flat sketches) | (06 hrs) |
| 7. Preparation of swatch (fabric) board based on prevailing market trends | (03 hrs) |
| 8. Preparation of trims & accessories board | (03 hrs) |

Note: Design portfolio to be created on A3-size sheets. Emphasis should be given on various presentation techniques such as preparation of text board, mood board, design board, client details, flat sketches and illustration board, swatch & accessories board.

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RECOMMENDED BOOKS

1. Fashion Drawing -The Basic Principles by Anne Allen and Julian Seaman
2. Fashion Sketchbook (6th Edition): Bina Abling
3. Creative Fashion Drawing by Noel Chapman & Judith Cheek
4. Fashion illustration by Anna Kiper
5. Fashion Design Techniques by Zeshu Takamura
6. Ideas, Contact Communication
7. Fashion Forward, Contact Communication
8. Fashion Forecasting by K. Mckelvey & J. Munslow

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6.5 MAJOR PROJECT WORK

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RATIONALE

Individual creativity is expressed in design collections. It will enable them to comprehend the relevance of class-room knowledge and skills. Therefore, a student of Fashion Design should be able to incorporate what he has learnt in the last five semesters through this diploma programme in the live presentation

DETAILED CONTENTS

As far as possible students should be given live project problems with a view to:

- i) Develop understanding regarding the size and scale of operations and nature of field work in which students are going to play their role after completing the courses of study.
- ii) Develop understanding of subject based knowledge given in the classroom in the context of its application at work places.
- iii) Develop first hand experience and confidence amongst the students to enable them to use and apply polytechnic/institute based knowledge and skills to solve practical problems of the world of work.
- iv) Develop special skills and abilities like interpersonal skills, communication skills, attitudes and values.

For the fulfillment of above objectives, polytechnic may establish close linkage with 8-10 relevant organization for providing such an experience. It is necessary that each organization is visited well in advance and activities to be performed by students are well defined. The chosen activities should be such which are of curricular interest to students and of professional value to industrial/field organizations. Each teacher is expected to supervise and guide 5-6 students.

Effort should be made to identify actual field problems to be given as project work to the students. Project selected should not be too complex which is beyond the level of the students. The placement of the students for such a practical cum project work should match with the competency profile of students and the project work assigned to them.

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Students may be assessed both by industry and polytechnic faculty. The suggested performance criteria are given below:

- a) Punctuality and regularity
- b) Initiative in learning/working at site
- c) Level/proficiency of practical skills acquired
- d) Sense of responsibility
- e) Self expression/Communication skills
- f) Interpersonal skills
- g) Report writing skills
- h) Viva voce

SUGGESTED PRACTICAL EXERCISES

1. Making a design Collection
2. Selection of a theme
3. Finalising five designs
4. Development of designs into garments
5. Final presentation of the garments

A viva voce examination shall be conducted at the end of the project for assessing the work of the student. The examination committee for this purpose shall consist of a professional designer and the teacher who has guided the project. The project work should be properly displayed by the students.

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8. RESOURCE REQUIREMENT

8.1 Physical Resources

8.1.1 Space Requirement

The total space for lecture halls, tutorial rooms and drawing hall/studio may be worked out as per latest AICTE norms

8.1.2 Equipment Requirement

| Sr. No. | Details of Equipment | Qty | Tentative cost per unit |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------|
| A) DRAFTING AND PATTERN MAKING WORKSHOP | | | |
| 1. | Drafting tables (2.5 X 1.5 x 1mt) | 12 | 7,000 |
| 2. | Drafting squares (Graduated) | 06 | 1,000 |
| 3. | Full size mirror | 1S | 8,000 |
| 4. | Scissors (5", 8", 9", 10", 12") | 2 each | 100 |
| 5. | Pattern punching machine | 01 | 1,200 |
| 6. | Dummies | 16 | 8,000 |
| | Children (size 4) = 1 | | |
| | Ladies (size 10) = 5 (3 with sleeve, 2 without sleeve) | | |
| | (size 12) = 5 (3 with sleeve, 2 without sleeve) | | |
| | (size 14) = 2 (1 with sleeve, 1 without sleeve) | | |
| | (size 16) = 2 (1 with sleeve, 1 without sleeve) | | |
| | Maternity = 1 (with sleeve) | | |
| | Crests = 5 | | |
| 7. | Pinking scissors 10" size | 06 | 1,200 |
| 8. | Miscellaneous equipment: Tailors art curves, measuring tapes, meter scales, thimbles, milton clothes, tracing wheel, readymade patterns, punchnotcher | 6 Sets | 10,000 |
| 9. | Man required | 02 | |

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| Sr. No. | Details of Equipment | Qty | Tentative cost per unit |
|-----------------------------------|----------------------------------------------------------------|---------|-------------------------|
| B) CONSTRUCTION LABORATORY | | | |
| 1. | Sewing Machine (Industrial Machines) (Juki/Brother make) | 15 | 1,20,000 |
| 2. | Cutting Tables with felt top (2.5 x 1.5 x 1 mt) | 04 | 8,000 |
| 3. | Over lock machine: (Juki/Brother) Motorized 5 Thread | 01 | 1,20,000 |
| 4. | Button Covering Machines (Juki/Brother) | 01 | 10,000 |
| 5. | Ironing boards and sleeve boards | 02 each | 10,000 |
| 6. | Flat Lock (Juki/Brother) | 01 | 15,000 |
| 7. | Fashion Macer/Wonder Sketch | | 10,000 |
| 8. | Button Hole Machine (Motorized) | 01 | 1,25,000 |
| 9. | Eyelet Button Hole Machine 2,00,000 | 01 | |
| 10. | Button Stitch Machine 1,00,000 | 01 | |
| 11. | Double needle lock stitch machine | 01 | 80,000 |
| 12. | Zig-zag Machine | 01 | 25,000 |
| 13. | Bar Tacking Machine | 01 | 60,000 |
| 14. | Cuff Turning Machine | 01 | 50,000 |
| 15. | Steam Iron with Boiler (work station) | 02 | 50,000 |
| 16. | Blind Stitch Machine | 01 | 50,000 |
| 17. | Electric cutter (Straight knife 8" blade, round Blade) Eastman | 01 | 30,000 |
| 18. | Fusing Press for Collars and Cuffs | 01 | 1,00,000 |
| 19. | Retractable collar turning and Pressing Machine 1,00,000 | 01 | |
| 20. | Notcher | 01 | 10,000 |

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| Sr. No. | Details of Equipment | Qty | Total amount (Approx. in Rs) |
|---------|--------------------------|-----|------------------------------|
| 21. | Rivet Attaching Machine | 01 | 10,000 |
| 22. | Drilling Machine | 01 | 11,000 |
| 23. | Manual Spreading machine | 01 | 22,000 |
| 24. | Feed off the arm | 01 | 53,000 |

C) COMPUTER LABORATORY

| | | | |
|----|----------------------------------------------------------------------------------------------------------------------|----|----------|
| 1. | PC Computer (Multimedia) | 15 | 9,00,000 |
| 2. | Laser Printer | 02 | 36,000 |
| 3. | Software: Windows, MS Office, latest version Corel Draw (latest version) Adobe Photoshop and Adobe Illustrator | LS | 3,00,000 |

A printer sharing unit may be used to switch the printer between computers

D) CAD LABORATORY

Set of digitizer and scanner

Software: Lectra/GGT/Tuka technology and any other available software (purchase any one) (Technical Institutes are given special concession for purchase of certain software as these are used for training purpose) 2,00,000

Digital Camera (with high resolution) SLR (Still photography) 60,000

LCD Projector for Presentation 1,00,000

E) TEXTILE TESTING LABORATORY

| | | | |
|----|-----------------------------------------------------------|----|--------|
| 1. | Projection Microscope (Magnification upto 1500 times) | 02 | 30,000 |
| 2. | Magnifying Glass (Mounted in stainless steel with handle) | 15 | 2,000 |
| 3. | Twist Tester (Ordinary) | 02 | 10,000 |
| 4. | Spirit Lamps (125 ml) | 15 | 2,000 |
| 5. | Basin | 6 | 200 |

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| Sr. No. | Details of Equipment | Qty | Total amount (Approx. in Rs) |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------|
| 6. | Pick Counting Glass (1" x 1/2" x 1/4") | 20 | 500 |
| 7. | Wrap Reel (Manual) | 01 | 4,000 |
| 8. | Electronic Weighing Balance (0.001-200 gm) (Electronic) | 01 | 2,000 |
| 9. | Crockometer | 01 | 5,000 |
| 10. | Beesley Yarn Balance | 01 | 10,000 |
| 11. | Single Yarn Strength Tester | 01 | 70,000 |
| 12. | Cloth Crease Recovery Tester | 01 | 5,000 |
| 13. | Miscellaneous Items for Testing and Analysis (Test tubes, Test tube holders, Test tube stands, Wooden spoons, Enamel Bowls, Tube, Buckets, Chemicals, Graph Papers, Samples of different fabrics and cloths Yarn of different types) | LS | 10,000 |
| | GSM Counter and cutter | 01 | 10,000 |
| | Water Bath | 01 | 5,000 |
| | Grey Scale Set | 01 | 11,500 |
| | Oven | 01 | 10,000 |
| | Refrigerator | 01 | 12,000 |

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9. EVALUATION STRATEGY

9.1 INTRODUCTION

Evaluation plays an important role in the teaching-learning process. The major objective of any teaching-learning endeavor is to ensure the quality of the product which can be assessed through learner's evaluation.

The purpose of student evaluation is to determine the extent to which the general and the specific objectives of curriculum have been achieved. Student evaluation is also important from the point of view of ascertaining the quality of instructional processes and to get feedback for curriculum improvement. It helps the teachers in determining the level of appropriateness of teaching experiences provided to learners to meet their individual and professional needs. Evaluation also helps in diagnosing learning difficulties of the students.

Evaluation is of two types: Formative and Summative (Internal and External Evaluation)

Formative Evaluation

It is an on-going evaluation process. Its purpose is to provide continuous and comprehensive feedback to students and teachers concerning teaching-learning process. It provides corrective steps to be taken to account for curricular as well as co-curricular aspects.

Summative Evaluation

It is carried out at the end of a unit of instruction like topic, subject, semester or year. The main purpose of summative evaluation is to measure achievement for assigning course grades, certification of students and ascertaining accountability of instructional process. The student evaluation has to be done in a comprehensive and systematic manner since any mistake or lacuna is likely to affect the future of students.

In the present educational scenario in India, where summative evaluation plays an important role in educational process, there is a need to improve the standard of summative evaluation with a view to bring validity and reliability in the end-term examination system for achieving objectivity and efficiency in evaluation.

9.2 NATURE OF SUBJECTS FOR STUDENTS EVALUATION

The student evaluation is carried out for the following category of subjects:

Theory

Drawing

Practical Work (Laboratory Experiments, Practical and Workshop Exercises)

Project Work

Practical Training

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9.2.1 Theory

Evaluation in theory aims at assessing students' understanding of concepts, principles and procedures related to a course/subject, and their ability to apply learnt principles and solve problems. The formative evaluation for theory subjects may be caused through sessional/class-tests, home-assignments, tutorial-work, seminars, and group discussions etc. For end-term evaluation of theory, the question paper may comprise of three sections.

Section-I

It should contain objective type items e.g. multiple choice, matching and completion type. Total weightage to Section-I should be of the order of 20 percent of the total marks and no choice should be given in this section. The objective type items should be used to evaluate students' performance in knowledge, comprehension and at the most application levels of domain only.

Section-II

It should contain short answer/completion items. The weightage to this section should be of the order of 40 percent of the total marks. Again, no choice should be given in section-II

Section-III

It may contain two to three essay type questions. Total weightage to this section should be of the order of 40 percent of the total marks. Some built-in, internal choice of about 50 percent of the questions set, can be given in this section

Table II: Suggested Weightage to be given to different ability levels

| Abilities | Weightage to be assigned |
|-----------------------------------------------------------------|--------------------------|
| Knowledge | 10-30 percent |
| Comprehension | 40-60 percent |
| Application | 20-30 percent |
| Higher than application i.e. Analysis, Synthesis and Evaluation | Upto 10 percent |

9.2.2 Drawing

The main purpose of evaluation is to assess students ability to read and interpret technical drawing. A question paper in technical drawing for summative evaluation aims at testing following abilities in the students:

Reading and interpreting technical drawing

Preparing drawing as per given scale, dimensions, size and proportion, line work, specification and accuracy.

Formative evaluation should be based on the portfolio prepared by the students throughout the session. Summative evaluation may comprise of a question paper set by an external examiner based on weightage to proportion, quality of drawing and time to complete the drawing. It should be followed by a viva-voce.

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9.2.3 Practical Work

Evaluation of students performance in practical work (Laboratory experiments, practical and workshop exercises) aims at assessing students ability to apply or practice learnt concepts, principles and procedures, manipulative skills, ability to observe and record, ability to interpret and draw conclusions and work related attitudes. Formative and summative evaluation may comprise of weightages to performance on task, quality of product, general behaviour and it should be followed by viva-voce.

9.2.4 Project Work

The purpose of evaluation of project work is to assess students ability to apply, in an integrated manner, learnt knowledge and skills in solving real life problems, manipulative skills, ability to observe, record, creativity and communication skills. The formative and summative evaluation may comprise of weightage to nature of project, quality of product, quality of report and quality of presentation followed by viva-voce.

9.2.5 Practical Training

Evaluation of practical training report and viva-voce/presentation aims at assessing students' understanding of materials, industrial processes, practices in the industry/field and their ability to engage in activities related to problem-solving in industrial setting as well as understanding of application of learnt knowledge and skills in real life situation. The formative and summative evaluation may comprise of weightages to performance in testing, general behaviour, quality of report and presentation during viva-voce.

9.3 ASPECTS OF QUESTION PAPER-SETTING

Validity and reliability are the most important considerations in the selection and construction of evaluation procedures. First and foremost are the evaluation tools to measure the specific outcomes for which they are intended to measure. Next in importance is reliability, and following that is a host of practical features that can be classified under the heading of usability.

For weightage of marks assigned to formative (internal) and summative (external) evaluation and duration of evaluation has been given in the study and evaluation scheme of the curriculum document. Teachers/Paper-setters/Examiners may use Manual for external examiners developed by Curriculum Development Centre, Technical Teachers' Training Institute, Sector-26, Chandigarh to bring objectivity in the evaluation system.

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10. RECOMMENDATIONS FOR EFFECTIVE IMPLEMENTATION OF CURRICULUM

The following recommendations are made for effective implementation of this curriculum.

- a) While imparting instructions, stress should be laid on the development of practical skills in the students. For this purpose, as far as possible, classes should be conducted in the laboratories itself.
- b) Industrial/field visits be organised as and when required to clarify the concepts, principles and practices involved. For this purpose, time has already been provided in student centred activities
- c) Extension lectures from professionals should be organized to impart instructions in specialized areas
- d) There is no need of purchasing very costly equipment. Efforts may be made to establish linkages with local industry
- e) Teachers should generate competitiveness among the students for the development of professional skills.
- f) Hobby clubs and other co-curricular activities be promoted to develop creativity in the students
- g) Students should be given well thought out project assignments. This can help students in developing creativity and confidence in them for gainful employment (wage and self)
- h) A project bank should be developed by the Fashion Design department in consultation with fashion industry.
- i) For all practical subjects, the teacher should develop master samples
- j) The teachers should encourage students to do market survey, industrial/field visits, exposure to fashion shows, exhibition etc
- k) The teachers should be given extensive training in the use of computers

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