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PREFACE

Curriculum document is a comprehensive plan of my educational programmer. It is also one of the means for bringing about qualitative improvement of any programme. Under the Chairmanship of Financial Commissioner and Principal Secretary of Technical Education, Government of Haryana, a one day workshop was organized at National Institute of Technical Teachers' Training and Research (NITTTR formerly TTI), Chandigarh on 21 January, 2003 in which the senior officers from Directorate of Technical Education/Board of Technical Education Haryana, Principals and Head of Departments from deliberated upon various issues, for bringing about qualitative improvement in the technician education system in the state of Haryana. One of the out-standing and unanimous decision of the above workshop was to review the curricula of all the diploma programmers being offered in the state of Haryana especially with a view to include appropriate levels of courses in applied sciences, mathematics, computers, engineering sciences and courses relevant to the present day environment of changing technologies.

As a follow-up of the above workshop, this Institute took-up the revision of all the curricula of various diploma programmes in Haryana and it was decided that to begin with, this institute would work-out the course structure and detailed contents for the first year of various diploma programmes to enable Haryana polytechnics to implement these from the current session 203-2004 in order to catch up with the technological developments taking place in the industry/field organizations.

A series of workshops were held at NITTTR, Chandigarh in the months of May-June 2003 and 1st year curriculum of various diploma programmes was handed over to the Haryana Directorate for its implementation from July 2003. This was followed by another series of workshops for revision of 2nd year and 3rd year curricula of all these courses.

The document is based on the feed back from industry/field organizations for wage and self-employment opportunities for the diploma holders in **Fashion Technology** in large, medium and small scale industries. While suggesting employment opportunities for the diploma holders, the three sectors i.e. primary, secondary and tertiary sectors were kept in mind. The document contains the study and evaluation scheme and detailed contents for all the three year to enable the Haryana Polytechnics to implement the revised curriculum from the following year itself.

While working out the detailed contests and study and evaluation scheme, the following important elements have been kept in mind:

- i) Major employment opportunities of the diploma holders

(ii)

- ii) Competency profile of the diploma holders with a view to meet the changing need of technological developments and requirements of the employments.
- iii) Vertical and horizontal mobility of the students for their professional growth
- iv) A rational approach for all the curricula of diploma programmes in engineering and technology in the state of Haryana

The document is an outcome of the feedback received by this institute from the experts during the workshop who represented institutes of higher education, research and development organizations, polytechnic faculty and NITTTR faculty.

The revised curriculum aims at developing desired professional, managerial and communication skills as per the requirement of the world of work. We hope that this revision will prove useful in turning out more competent diploma holders in **Fashion Technology**. The success of this curriculum depends upon its effective implementation and it is expected that the managers of polytechnic system including subject teachers will make efforts to create better facilities, develop linkages with the world of work and foster conducive environment as per recommendations made in the curriculum document.

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SK Gupta
Coordinator

1. SALIENT FEATURES OF THE CURRICULUM FOR DIPLOMA COURSE IN FASHION TECHNOLOGY

1. Name of the programme : Diploma Course in Fashion Technology
2. Duration of the Programme : Three Years
3. Entry Qualifications : Matriculation as per norms laid down by AICTE/State Board of Technical Education, Haryana.
4. Intake : 30 or as prescribed by State Board of Technical Education, Haryana (An aptitude test may be conducted for admission of this diploma programme)
5. Pattern of the programme : Semester System (Each Semester is of 16 weeks and each week has 36-40 contact hours)

2. EMPLOYMENT OPPORTUNITES FOR DIPLOMA HOLDERS IN FASHION TECHNOLOGY

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

1. Fashion Coordinator in export/domestic garment production house/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. Media Guide in Fashion Journalism
7. Fashion Coordinator in organizations working for promotion of traditional craft
8. Self employment

3. COMPETENCY PROFILE OF DIPLOMA HOLDERS IN FASHION TECHNOLOGY

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, culture and nature and its stylization
2. Ability to illustrate different types of figures and dresses in different colour medium
3. Design, draft, prepare patterns (into different sizes) for various types of garments (manually as well as with the use of computers) and grade to different sizes
4. Ability to operate garment manufacturing machines and tools
5. Select suitable fabric for different styles and types of garments according to latest trends and forecast
6. Fabricate various items of apparel made to measure and mass production for all ages and figure types
7. Understanding estimation of fabric and costing of garments
8. Manage the production of different type of garments (children, ladies, gents and special types) on the shop floor
9. Knowledge of interpersonal relations and skills in communication
10. Use of computers in the field of fashion technology
11. Ability to set up an entrepreneurial unit
12. Knowledge of marketing and retail management

4. DERIVING CURRICULUM AREAS FROM COMPETENCY PROFILE

SR. NO.	COMPETENCY PROFILE	CURRICULUM AREAS
1.	Knowledge of fashion technology history, culture and nature and its stylization	- History of Fashion
2.	Ability to illustrate types of figures and dresses in different colour media	- Fashion Illustration
3.	Use of computers in the field of Fashion Technology	- Basics of information Technology - CAD in Fashion technology
4.	Ability to operate garment manufacturing machines and tools	- Garment Manufacturing Machinery
5.	Design, draft, prepare patterns and grade (into different sizes) for various types of garments (manually as well as with the use of computers)	- Garment Designing - Grading - Draping - Pattern Making and Style Interpretation - CAD
6.	Select suitable fabric for different styles and types of garments according to latest trends and forecast	- Textile Science - Elements of Design - Principles of Design
7.	Fabricate various items of apparel made to measure and mass production for all ages and figure types	- Garment Construction
8.	Understanding estimation of fabric and costing of garments	- Estimation of fabric and costing
9.	Manage the production of different types of garments (children, ladies, gents and special types) on the shop floor	- Garment Construction - Production Planning and Management - Quality Control - Human and Industrial Relations

SR. NO.	COMPETENCY PROFILE	CURRICULUM AREAS
10.	Knowledge of interpersonal relations and skills in communication	<ul style="list-style-type: none"> - Communication Skills - Art Portfolio - Design Collection
11.	Knowledge of marketing and retail management	<ul style="list-style-type: none"> - Apparel Merchandizing - Industrial Management
12.	Ability to set up an entrepreneurial unit	<ul style="list-style-type: none"> - Business Management - Entrepreneurship Development

5. ABSTRACT OF CURRICULUM AREAS

a) General Studies

1. Communication Skills
2. Ecology and Environmental Awareness Camp
3. Entrepreneurial Awareness Camp
4. Industrial Management
5. Basics of Information Technology

b) Basic Areas

6. Textile Science
7. Elements of Design
8. Basic Pattern Making and Style Interpretation
9. Fashion Illustration
10. Principles of Design
11. Draping
12. Traditional Indian Textiles
13. History of costumes

c) Applied Areas

14. Garment Construction
15. Garment Design
16. Pattern Making and style Interpretation
17. Garment Manufacturing Machinery
18. Pattern Making and Grading
19. Fashion Retailing
20. Fashion Forecasting and Presentation
21. Advanced Pattern Making
22. CAD in Fashion Technology
23. Production Management and Quality Control
24. Fashion and Apparel Merchandizing
25. Art Portfolio
26. Project Work

7. STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME IN FASHION TECHNOLOGY (HARYANA STATE)

FIRST SEMESTER

Sr. No.	Subject	L	T	P	EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practicals		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
1.1*	Communication Skills-I	3	-	2	25	25	100	3	50(Viva)	2	200
1.2	Textile Science-I	3	-	2	25	25	100	3	50(Viva)	2	200
1.3	Elements of Design	2	-	4	25	50	100	3	50	3	225
1.4	Basic Pattern Making and Style Interpretation-I	2	-	6	25	50	100	3	100	3	275
1.5	Fashion Illustration-I	-	-	4	-	50	-	-	100	3	150
1.6	Garment Construction-I	-	-	8	-	50	-	-	125	3	175
	# Student Centered Activities	-	-	4	-	25	-	-	-	-	25
	Total	10	--	30		-	-	-	-	-	1250

* Common with other diploma programmes

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

L means Lecture (Hrs per week)

T means Tutorial (Hrs per week)

P means Practicals (Hrs per week)

SECOND SEMESTER (FASHION TECHNOLOGY)

Sr. No.	Subject	L	T	P	EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practicals		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
2.1*	Communication Skills-II	3	-	2	25	25	100	3	50(Viva)	2	200
2.2	Textile Science-I	3	-	2	25	25	100	3	50(Viva)	2	200
2.3	Principles of Design	2	-	4	25	50	100	3	50	3	225
2.4	Basic Pattern Making and Style Interpretation-II	2	-	6	25	50	100	3	100	3	275
2.5	Fashion Illustration-II	-	-	4	-	50	-	-	100	3	150
2.6	Garment Construction-II	-	-	8	-	50	-	-	125	3	175
	# Student Centered Activities including Ecology and Environmental Awareness Camp	-	-	4	-	25	-	-	-	-	25
	Total	10	-	30		-	-	-	-	-	1250

FIFTH SEMESTER (FASHION TECHNOLOGY)

Sr. No.	Subject	L T P Hrs/week			EVALUATION SCHEME						Total Marks
					Internal Assessment		External Assessment (Examination)				
					Theory	Practical	Written Paper		Practicals		
					Max. Marks	Max. Marks	Max. Marks	Hrs	Max. Marks	Hrs	
5.1*	Advanced Pattern Making-I	-	-	8	-	50	-	-	125	3	175
5.2	Garment Construction-V	-	-	10	-	75	-	-	150	3	225
5.3	CAD in Fashion Technology-I	-	-	8	-	50	-	-	100	3	150
5.4	Production Management and Quality Control	4	-	2	25	25	100	3	50	3	200
5.5	Fashion and Apparel Merchandizing	4	-	-	25	-	100	3	-	-	125
	# Student Centred Activities	-	--	4	-	25	-	-	-	-	25
	Total	8	-	32							900

**DETAILED CONTENTS
OF
VARIOUS SUBJECTS**

FIRST SEMESTER

Rationale

Interpersonal communication is a natural and necessary part of organizational life. Yet, communicating effectively can be challenging because of our inherent nature to assume, overreact to and misperceive what actually is happening. Poor communication or lack of communication is often cited as the cause of conflict and poor teamwork. In today's team-oriented workplace, managing communication and developing strategies for creating shared meaning are crucial to achieving results and creating successful organizations. The goal of the *Communicating Effectively in English* course is to produce civic-minded, competent communicators. To that end, students must demonstrate oral as well as written communication proficiency. These include organizational and interpersonal communication, public address and performance.

Objectives of Course in Communicating Effectively in English for the First Year (I & II Semesters) are: * *Understanding how communication works* * *Gaining active listening and responding skills* * *Understanding the importance of body language* * *Acquiring different strategies of reading texts* * *Increasing confidence by providing opportunities for oral and written expressions*

DETAILED CONTENTS FOR FIRST SEMESTER**48 Hrs****1. COMMUNICATION SKILLS 6 hrs**

- 1.1 Verbal and Non-verbal Communication
- 1.2 Process of Communication
- 1.3 Barriers to Communication; Overcoming Strategies
- 1.4 Listening and Speaking Skills and Sub-Skills
- 2. Spoken English-Introduction, Features of Spoken English

(Note: This module is only for practice. This should not be included in the final examination)

2. DEVELOPING ORAL COMMUNICATION SKILLS 8 hrs

- 2.1 Greeting, Starting a Conversation
- 2.3 Introducing Oneself
- 2.4 Introducing Others
- 2.5 Leave Taking
- 2.6 Thanking, Wishing Well
- 2.7 Talking about Oneself
- 2.8 Talking about Likes and Dislikes

3. GRAMMAR AND USAGE 12 hrs

- 3.1 Punctuation
- 3.2 Articles-a, an, the
- 3.3 Framing Questions
- 3.4 Verbs-Classification: Main Verb, Auxiliary Verb, Transitive & Intransitive Verbs, Phrasal Verbs

3.5 Word Formation

4. WRITING SKILLS 10 hrs

4.1 Writing Paragraphs

4.2 Picture Composition

5. READING SKILLS 12 hrs

5.1 Vocabulary Enhancement

5.2 Techniques of Reading: Skimming, Scanning, Intensive and Extensive Reading

NOTE: The Reading Skills of the learners (along with vocabulary enhancement) will be through reading thematic articles/essays and/or stories.

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1.2 TEXTILE SCIENCE-1

L T P
3 - 2

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

1. Introduction to textile fibre, yarn and fabric

- a) Classification of important textile fibres based on their origin and constituents
- b) Important properties of fibres: cotton, jute, linen, wool silk, polyester, nylon, acrylic, spandex, viscose rayon
 - Relating to appearance (Colour, Lustre, Shape, Surface, Contour, Length, Diameter)
 - Relating to Performance (Strengths/Tenacity)
 - Relating to Maintenance (Effect of biological organisms, chemicals, thermal conductivity and other environmental conditions)

2. New fibres and their properties – Tencel, lycra and technical textiles

- 3. a) Relevance of Thread count; linear density, balance yarn slippage to fabric performance

PRACTICAL EXERCISE

Physical analysis of fabrics composed of different fibres:

Cotton, jute, linen, wool silk, polyester, nylon, acrylic, spandex, viscose, rayon

Visual examination of Fibres and yarns

Identification of fibres in a fabric Sample through:

- Burning test
- Microscopic test
- Chemical test

To determine the thread count, balance Linear density and yarn slippage of the Following fabrics:

Cotton (casement, cambric), Viscose rayon, silk, polyester, Nylon

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THEORY

4. Yarn Processing

- a) Manufacturing of cotton, line wool and silk

PRACTICAL EXERCISE

Visit to spinning Mill or relevant video films to understand the various systems of yarn spinning – staple, filament and spun filament yarns

- | | |
|---|--|
| <p>b) Sequence of spinning operation for making spun</p> <p>c) Spinning – mechanical, chemical and melt</p> <p>d) Type of yarns and their properties relevant to fabric behavior</p> <ul style="list-style-type: none"> - Simple yarns: single, ply, cord - Novelty yarns: slub, boucle, Chenille, nubs, Corkscrew, grendelle - Textured yarns: stretch yarns, bulk yarns, core-spun yarns - Blended Yarns - Yarn twist, yarn count/size - Theory of direct and indirect method of yarn numbering systems <p>e) Understanding of various textiles testing equipment with relevance to Yarn twist, yarn strength, crimp, yarn count, fabric strength, abrasion resistance, crease recovery</p> | <p>To analyze and understand fabric texture (appearance and hand) on the basis of the yarns used:</p> <ul style="list-style-type: none"> - Fabrics using simple yarns - Fabrics using novelty yarns - Fabrics using filaments: textured, non-textured, spun filaments - Yarn testing for twist, ply count/size (measurement) - Yarn strength – direct and indirect method (yarn-numbering systems) <p>Visits to a textile testing laboratory for demonstration of various textile testing equipment to assess the quality of yarn and fabric properties</p> |
| <p>5. Fabric structure and properties relevant to consumer requirements such as:</p> <p>a) Weaving – Fundamentals</p> <p>b) Fabrics formed directly from the fibres: felts, non-wovens, flocked, quilted fabrics</p> | <p>Prepare a catalogue of fabric samples made by using different methods of construction</p> |

THEORY

- c) Fabrics formed directly from the yarns

Wovens:

PRACTICAL EXERCISE

Visit to Mill units producing, wovens and non-wovens to understand type of looms and processes of relevant video film may be shown
 A visit to the cottage industry/ handloom sector to understand the working of a loom and types of woven

- Type of looms – pit looms, loins loom, table loom, dobby and jacquard, shuttleless
 - Accessories – shuttle, reed, healed, batten
 - Basic weaves – plain, twill, satin
 - Decorative weaves, swirel, lappet, spot, dobby, jacquard, pile
 - Weaving defects
- fabrics
- 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 and their types: fused, topped fringed
- Identify types of selvedges: market survey of fabrics composed of different fibres and categorized for:
- Variation in textures (smooth to rough)
 - Variation in weight (light weight to heavy weight)
 - End uses
 - Trade names

Assignments for the Students

Prepare a catalogue of fabric samples under following heads:

- i) Fibre composition – Names by which they are available
- ii) Yarn Structure – Texture variation
- ii) Fabric Structure – Characteristic, Different methods of construction and their variations

Note: 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 mills to show the various processes or relevant video films may be screened.

RECOMMENDED BOOKS

1. Understanding Textiles by Phyllis Tortora

2. Modern Textiles by Rothy Siegert Lyle
3. Encyclopedia of Textiles, Fibres and Non-woven Fabrics
4. Textiles Fiber to Fabric – P Corbman
5. Fabric Science by Joseph Pizzuto
6. Essentials of Textiles by Marjery Josphe; Holt, Rinehart and Winston, Inc
7. Textile Fibres and their uses by KP Hess

1.3 ELEMENTS OF DESIGN

RATIONALE

The knowledge and skill related to elements of design is essential for the students of diploma programme of fashion technology in order to develop the understanding regarding how to make a design using lines, dot, shape and colour combination

DETAILED CONTENTS

THEORY

1. Understanding design
2. Relationship to design in daily life
3. Elements of design
 - a) Lines; b) Dots; c) Shapes, How the line; dots and shapes are used in relation to the figure
4. Colour – theory, primary, secondary, sub- secondary, hue, value, intensity, tints, shades, tones, analogues achromatic, Mono- chromatic, polychromatic, warm and cool; transparent and opaque, rainbow; contrast complimentary and split complimentary colours relating to season/ moods/ragas
5. Elements
 - a) texture – smooth, shine, rough etc
 - b) Silhouette
6. Design variations

PRACTICAL EXERCISE

Examples of design 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

Field visit to market/industry to understand colour in fabrics/nature

Practical exercises for texture and silhouette in fabric and other objects/nature and human body

Practice on variations of necklines, collars, bodice, skirt, trousers, belts, sleeves, pockets, yokes, tucks/pleats

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

RECOMMENDED BOOKS

1. Fashion Drawing Designs; Magazine of Thailand
2. Pattern Designs for Haute Couture, Volume 1
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

RATIONALE

The students should know various considerations in making of garments, incorporation of standard measurements, 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**

1. Introduction to standard measurements, standards measurement charts,(06 hrs)
methods of taking measurements (direct, indirect, landmarks)

Classification of measurements – circumference, horizontal and vertical measurements

2. Methods of developing patten (04 hrs)

- flat pattern
- draping

3. Pattern making tools (04 hrs)

Pins and pin holders, scissors, measuring tapes, French curves, scales, curves, scales, notcher, tracing wheel, pattern papers, markers etc.

4. Introduction to style interpretation (04 hrs)

What is style interpretation? How it is done? What are its benefits

5. Pattern making terms

Pattern drafting, flat pattern making, basic pattern set, templates, working pattern, production pattern, design specification sheet, pattern chart, cost sheet, grain, warp, weft, selvedge, bias, true bias, apex, dart, dart legs, dart intake, trucing and blending, plump line, vertical, horizontal and perpendicular lines, symmetrical and asymmetrical lines, style no., pattern size, pivotal point, pattern manipulation

LIST OF PRACTICALS

1. - Taking measurements directly from body

- Locating land marks and taking anthropometrics measurements
- Taking Measurements from the garments

2. Practice of use of

- Squares and scales
- French curve – for arm hole, necklines etc.
- Practice on use of other equipment

3. Drafting of :

- Child's Panty
- Bloomer
- Child's bodice block and sleeve block
- Child's skirt block

Note: The students may be taken to the nearby manufacturing 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 Zamkoff
4. Design Apparel Through the Flat Pattern by Ernestine Kopp
5. Pattern Cutting and Making up by Martin Shoben

RATIONALE

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

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Concept of fashion drawings
2. a) Fashion Careers that require sketching
b) Maintenance of scrap book
3. Knowledge of Drawing Equipment and Tools
 - Paper
 - Markers and Pencils
 - Drawing Board
 - Ruler
 - Tape
 - Erasers
 - Knives
 - Different media (charcoal, ink, water Colour etc)
 - Outdoor sketching – Central market, Park, Railway Station and Museum
4. Fashion figure (difference between normal and fashion figures)
5. Drawing the eight Head figure/Stick figures/Block figures
6. Bone Structure
7. Muscle view
8. Front view
9. Side view
10. Back pose
11. Structure of legs
12. Structure of hands
13. Drawing the foot

½ sheet each

- | | | | |
|-----|--------------------------------|-------|--------------|
| 14. | Enlargement and reduction | | |
| 15. | Facial proportion | | |
| 16. | Drawing the face, step by step | | |
| | - Draw a rectangle | 1No. | |
| | - Divide the rectangle | 1No. | |
| | - Measurement | 1No. | |
| | | | ¼ Sheet each |
| 17. | Features Drawing | 2Nos. | |
| 18. | The Profile | | |
| 19. | Profile head step by step | | |
| | - Turning Head | 2Nos. | |
| | - Three-dimensional head | 2Nos. | |
| 20. | Drawing of hair step by step | | |
| 21. | Typical view | 2Nos. | |

RECOMMENDED BOOKS

1. Fashion Drawing Designs by Magazine of Thailand
2. Fashion Drawing – The Basic Principles by Anne Allen and Julion Seaman
3. Fashion Illustration by BIna Abling

RATIONALE

The diploma holders in fashion technology are supposed to fabricate various components of garments such as pleats and gather, darts, tucks etc., as per measurements and go for mass production for all ages and size. Hence this subject has been included in the curriculum to develop such competencies in the students. The subject deals with basics of garment construction technology.

DETAILED CONTENTS

INSTRUCTIONS FOR PRACTICALS

1. Tools and equipment used for garment construction
2. Defects and remedies of a sewing machine
3. Straight line, square, concentric square, curved, circle (4lectures)
4. Classification of seams:
- Flat, raised, decorative
5. Variation of pleats and gather
6. Darts, tucks – sample
7. Gathers shirring
8. Types of fasteners – hooks, shapes, loops, button, Velcro, snaps

PRACTICAL EXERCISES

- Practice on threading, oiling, handling and care of sewing machine and over lock machine
- Machine control exercises on speed control, Paper exercises, Fabric exercises
- Practice on various samples of machine seam – plain, run and fell, French, lapped seam, counter seam, mantira makers, counter hem, top seam, slot seam, beading

Preparation of variation of pleats and gather

Preparation of darts, tucks

Preparation of samples for Gathers shirring

Practice on various types of fasteners

9. Edge finishing of garments

Practice on variations of garments edge finishing by hemming, piping and edge binding

ASSIGNMENT

Preparation of a baby frock incorporating the above techniques

RECOMMENDED BOOKS

1. Clothing Construction by Doongaji
2. System of Cutting by Zarakar
3. Clothing Construction by Evelyn A Mansfield, Hougutan Miffin Co., Boston
4. Creative Sewing by Allynie Bane; McGraw Hill Book Co., Inc., New York
5. How you look and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York
6. Fashion Maker by Betty Foster
7. Fashion Clothes- She by Debbie Bliss, Sue Penerill
8. Basic Processes and Clothing Construction by Sherie Doongaji and Raushini
9. Simplicity revised ABC of Short-Cut Sewing
10. The Brides Sewing Book by Anne Ladbury
11. Stitch by Stitch by Tarstar Books
12. Complete Guide to sewing by Reader's Digest

SECOND SEMESTER

COMMUNICATION SKILLS – II

030021

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L T P

Rationale

Interpersonal communication is a natural and necessary part of organizational life. Yet communicating effectively can be challenging because of our inherent nature to assume, overreact to and misperceive what actually is happening. Poor or lack of communication is often cited as the cause of conflict and poor teamwork. In today's team-oriented workplace, managing communication and developing strategies for creating shared meaning are crucial to achieving results and creating successful organizations. The goal of the *Communicating Effectively in English* course is to produce civic-minded, competent communicators. To that end, students must demonstrate oral as well as written communication proficiency. These include organizational and interpersonal communication, public address and performance.

II SEMESTER 48 hrs

1. LISTENING COMPREHENSION 4hrs

- 1.1 Locating Main Ideas in a Listening Excerpt
- 1.2 Note-taking

2. ORAL COMMUNICATION SKILLS 14 hrs

- 2.1 Offering-Responding to Offers
- 2.2 Requesting-Responding to Requests
- 2.3 Congratulating
- 2.4 Expressing Sympathy and Condolences
- 2.5 Expressing Disappointments
- 2.6 Asking Questions-Polite Responses
- 2.7 Apologizing, Forgiving
- 2.8 Complaining
- 2.9 Persuading
- 2.10 Warning
- 2.11 Asking for and Giving Information
- 2.12 Giving Instructions
- 2.13 Getting and Giving Permission
- 2.14 Asking For and Giving Opinions

3. GRAMMAR AND USAGE 10hrs

- 3.1 Prepositions
 - 3.2 Pronouns
 - 3.3 Determiners
 - 3.4 Conjunctions
 - 3.5 Question and Question Tag
 - 3.6 Tenses (Simple Present, Simple Past)
- *One chapter revising the topics discussed during the first semester.
(Punctuation, Articles, Framing questions, Verbs, Word formation)

4. WRITING SKILLS 10hrs

- 4.1 Writing Notice
- 4.2 Writing Circular
- 4.3 Writing a Memo
- 4.4 Agenda for a Meeting
- 4.5 Minutes of the Meeting

4.6 Telephonic Messages

* Writing a paragraph will be a continuous exercise through out the session.
(Writing will be based on verbal stimuli, tables and graphs.)

5. READING SKILLS 10hrs

5.1 Vocabulary Enhancement

5.2 Techniques of reading: Skimming, Scanning, Intensive and Extensive Reading

NOTE: The Reading Skills of the learners (along with vocabulary enhancement) will be through reading thematic articles/essays and/or stories.

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2.2 TEXTILE SCIENCE – II

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 Structure and properties relevant to consumer requirements such as:

a. Knits:

- Type of stitches used (Purl, Jersey, Miss, Tuck)
- Classification: warp and weft knits
- Weft knits: Plain, Purl, Rib, Velour Terry, Pile
- Warp Knits: Tricot, Milanese, Lascael

Identify 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. Braids, lace, nets – basics

2. Finishes

a) Importance of finish: definition, objectives and preliminary preparations

Prepare a catalogue of fabrics with following finishes on the basis of visual inspection and textile markings: bleaching, mercerization, embossing, moiering, napping, flocking, plisse, organdy, acid finish, devore

b) Type and classifications of finishes

Finishes affecting appearance: bleaching, calendaring, moiering, embossing, glazing, schiering

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THEORY

- Finishes affecting texture: Flocking, mapping, burnt out designs, plisse, acid finish, stiffening
 - Finishes affecting function: Tentering, shrinkage control in cotton rayon, wool, heat setting in synthetics, moth, mildew, proofing, water repellency, was-n-wear finish, mercerization, crease resistant
3. Understanding role of labels/textile markings textile consumer
–Criteria for textile markings
(Sources: BIS pamphlets)
4. Application of colour aesthetic finish
- Dyeing – Definition stages of dyeing (fibre, yare, piece dyeing, garment dyeing) and value added washes
- Stone wash
 - Enzyme wash etc
5. Printing- definition, methods and type of printing techniques
- Direct: block, roller printing, discharge duplex
 - Resist: Screen, Stencil, heat transfer
 - Batik, tie and dye
 - Photographic, bubble and marbel printing
6. Importance of colour fastness to the consumer – Evaluation of colour fastness, Factors influencing colour fastness

PRACTICAL EXERCISE

Collect swatches of different type of fabrics of textile markings and critically analyze them for the contents

Dyeing of yarns/value of cotton/wool

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

Assessing colour fastness of the given fabric samples (dyed and printed) to:

- i) Laundering
- ii) Light/Sunlight
- iii) Ironing – dry and wet
- iv) Perspiration
- v) Crocking

THEORY

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:
 1. Fiber type

7. Importance of shrinkage calculation during garment construction

8. Defects in Fabrics

- Dyeing defects
- Print defects

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PRACTICAL EXERCISE

Demonstration of following equipment used for testing colour fastness through a visit to a textile testing laboratory laundry-meter, fadometer, spectro-meter, crockometer, colouri-meter

To determine and calculate fabric and garment shrinkage in cotton, worsted and georgette

2. Yarn type
 3. Processing type of fabric (Dyed of Printed)
 4. Fabric finishing
- ii) Production Cost/mt.
 - iii) Available width of fabric
 - iv) Type of packaging
 - v) Place (City/Area of Manufacture)

Assignment

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

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

RECOMMENDED BOOKS

1. Understanding Textiles by Phyllis Tortora
2. Modern Textiles by Rothy Siegert Lyle
3. Encyclopedia of Textiles, Fibres and Non-woven Fabrics
4. Textiles Fiber to Fabric – P Corbman
5. Fabric Science by Joseph Pizzuto

2.3 PRINCIPLES OF DESIGN

L T P
3 - 2

RATIONALE

The Knowledge and skill related to principles of design is essential for the students of diploma programme of fashion technology in order to develop the understanding regarding how to make a design using scale, space, proportion, rhythm, harmony, textures and collage from waste material

DETAILED CONTENTS

THEORY	PRACTICAL EXERCISE
1. Principles of design, rhythm, harmony, space, scale, proportions, balance, unity, symmetry	Corresponding exercises with rhythm, Harmony, balance, unity, and symmetry to be done on dummy
2. Space – value and space in design	Practical exercises on optical illusion
3. Collage and its types – relief and flat	Making collage with waste material Making collage with flat materials Making collage with fabrics

Note: The teacher should encourage the students to do market surveys, field visits and the students may be exposed to fairs and exhibition

RECOMMENDED BOOKS

1. Fashion Drawing Designs; Magazine of Thailand
2. Pattern Designs for Haute Couture Volume 1
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. Lifestyle: Fashion Styles by Katheryn Samuel
7. Spring and Summer Collection; Tokyo, New York

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2.4 BASIC PATTERN MAKING AND STYLE INTERPRETATION – II

L T P
3 - 2

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

1. Principle of pattern making – manipulation addition continuing (04 hrs)
2. Pattern details – terminology and classification of : (08 hrs)
 - Collar
 - Sleeves
 - Yokes – functional and decorative
 - Empire and princess line
 - Pockets
3. Pattern styles – skirt terminology (06 hrs)

- categorization of skirts on the basis of length and flare and their variations
4. Pants
- terminology
 - categorization of pants on the basis of length and fit and their variations
5. Study of the basic figure types, figure defects and developing patterns (04 hrs)
For them
6. Layouts (06 hrs)
- Planning layouts for various widths and special fabric (e.g. plaids, piles and unidirectional fabrics)

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LIST OF PRACTICALS

1. Style interpretation of any given design
2. Adaptation of child's bodice to :
 - Yokes
 - Bodice lengths
3. Adaptation of basic sleeve to:
 - Puff sleeve
 - Cap sleeve
 - Flared sleeve
 - Magyar sleeve
 - Balloon sleeve
 - Petal sleeve
 - Leg-o-mutton sleeve
4. Drafting and adaptation of various collars
 - Baby collar
 - Peter Pan collar – flat and raised
 - Cape collar
 - Sailor's collar
 - Convertible collar

Note: The students may be taken to the nearby garment manufacturing 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 Zamkoff
4. Design Apparel Through the Flat Pattern by Ernestine Kopp
5. Pattern Cutting and Making up by Martin Shoben

2.5 FASHION ILLUSTRATION - II

40

L T P
- - 4

RATIONALE

The skill in fashion illustration is essential for the students of fashion technology so as to develop in them the creativity. After going through this subject, the student of fashion technology will be able to illustrate different type of figures and dresses in different colour media

DETAILED CONTENTS

PRACTICAL EXERCISES

- | | | | |
|----|--|--------|-----------|
| 1. | Drawing from A live model (2 hrs/week) | | 1/2 sheet |
| 2. | Three-dimensional body | 2 Nos. | 1/2 sheet |
| 3. | Drawing from photographs | 4 Nos. | 1/4 sheet |
| 4. | Different color media | | 1/4 sheet |
| 5. | Presenting illustrations | 2 Nos. | 1/2 sheet |
| 6. | Inspiration | | |

- Collecting scrap
- Sketch Book
- Museums and Fine Art Books
- Contemporary Fine Arts
- Movies

7. Period Fashion Illustrations

- | | | | |
|---|----------------|-------|--------------|
| - | 1900 – 1930 | 1 No. | ¼ sheet each |
| | 1930 – 1950 | 1 No. | |
| | 1950 – 1970 | 1 No. | |
| | 1970 – Present | | |

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8. Contemporary Illustration: causal wear, summer wear, and rainy wear season (1/4 sheet)

9. Drawing of men in different colour media like poster colour, water colour, water proof inks

- | | | | |
|---------------|--------------------------|------------|--------------|
| - | Male muscle structure | 2 Nos each | |
| - | Drawing men step by step | | |
| - | Men faces | | |
| Men garments: | | | |
| - | Shirts | 4 Nos each | ¼ sheet each |
| - | Casual Tops | | |
| - | Men's suits | | |

10. Drawing of Children Proportion

- | | | |
|---|------------------|------------|
| - | 1 Year old | 2 Nos each |
| - | 2 – 3 years old | |
| - | 5 Years old | |
| - | 5 – 10 Years old | |

11. Drawing of Assessories

- | | | |
|---|-----------|-------------|
| - | Shoes | 2 Nos each. |
| - | Belts | |
| - | Jewellery | |

- Gloves
 - Hats
12. Coloring of the various dresses using appropriate colour media e.g. using water- colour to depict silk, woolen, jute, hosiery, net, sheer fabrics. The material should be identified (4 sheet of ¼ sheet)
 13. Group discussions – Once a week, Fashion TV to be watched for half an hour in a week
 14. Innovative design development of creativity – 2 sheets of ½ sheet)
 15. Different types of fashion figures both Western and Indian
 16. Quick sketching with sketch pen
 17. Visit to the Central park, Museums, Railway station for Outdoor sketching

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2.6 GARMENT CONSTRUCTION – II

L T P
- - 8

RATIONALE

The diploma holders in fashion technology 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

1. Types of plackets (extended mock, 2 piece etc)
2. Neckline variations (round, square, cowl, V shape, ruffle, sweet heart, boat)
3. Types of Pockets (patch, bello, welt, bound, set in)
4. Types of sleeves (plain, puff, flared, bell, cap, Magyar)
5. Type of fastners – zipper

PRACTICAL EXERCISES

- Preparation of various types of plackets (extended mock, 2 piece etc)
- Preparation of neckline variations (round, square, cowl, V shape, ruffle, sweet heart, boat)
- Preparation of various types of Pockets (patch, bello, welt, bound, set in)
- Preparation of various types of sleeves (plain, puff, flared, belt, cap, Magyar)
- Practice of attachment of zipper (concealed open ended, lapped, centered)

RECOMMENDED BOOKS

1. Clothing Construction by Doongaji; Raaj Parkashan Ltd., Delhi
2. System of Cutting by Zarpakar
3. Clothing Construction by Eyelyn A Mansfield, Hougutan Miffin Co., Boston
4. Creative Sewing by Allynie Bane; McGraw Hill Book Co., Inc., New York
5. Complete Guide to Sewing by Readers Digest

6. Fashion Maker by Betty Foster
7. Fashion Clothes- Sher by Debbie Bliss, Sue Penerill
8. Basic Processes and Clothing Construction by Sherie Doongaji and Raushini Despande
9. Simplicity Revised ABC of Short-Cut Sewing
10. The Brides Sewing Book by Anne Ladbury

11. Pattern Cutting and Making up by Martin Shoben
13. The art of Sewing by Auna Jacob Thomas; UBS Publishers Distributors Ltd., New Delhi

ECOLOGY AND ENVIRONMENTAL AWARENESS CAMP

A diploma holder must have knowledge of different types of pollution caused due to industries and constructional activities so that he may help in balancing the eco system and controlling pollution by pollution control measures. He should also be aware of environmental laws related to the control of pollution.

This is to be organized at a stretch for 3 to 4 days. Lectures will be delivered on following broad topics. There will be no examination for this subject.

1. Basics of ecology, eco system and sustainable development

2. Conservation of land reforms, preservation of species, prevention of advancement of deserts and lowering to water table
3. Sources of pollution – natural and man made, their effects on living and non-living organisms
4. Pollution of water – causes, effects of domestic wastes and industrial effluent on living and non-living organisms
5. Pollution of air-causes and effects of man, animal, vegetation and non-living organisms
6. Sources of noise pollution and its effects
7. Solid waste management; classification of refuse material, types, sources and properties of solid wastes, abatement methods
8. Mining, blasting, deforestation and their effects
9. Legislation to control environment
10. Environmental Impact Assessment (EIA), Elements for preparing EIA statements
11. Current issues in environmental pollution and its control
12. Role of non-conventional sources of energy in environmental protection

THIRD SEMESTER

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3.1 GARMENT DESIGN – I

RATIONALE

The students should be able to design 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 satisfaction and need.

DETAILED CONTENTS

Practical exercises

1. Designing of any 5 garments by applying principles of garment design

2. Designing casual and formal frocks, jump suits/dungarees, night wears, shirts and shorts using mix and match fabrics and prints.

No. of Designs = 4

Age = 2-5 years

3. Designing accessories for children

- Bags
- Shoes
- Belts
- Head gears

4. Sourcing of suitable materials

The students should do a market survey for the fabrics, colours and textures available in the market. They are required to attach suitable fabric swatches on the design sheets.

RECOMMENDED BOOKS

1. Design for the Real World: Human Ecology and Social Change by Papanek
2. Repeat Patterns: A Manual for Designers, Artists and Architects by Phillips and Bunce
3. Textiles Designs 200 Years of Patterns for Printed Fabrics by Meller and Elffers

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3.2 PATTERN MAKING AND STYLE INTERPRETATION

L T P
- - 8

RETIONALE

The students are supposed to know how to adapt 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

Practical exercise

1. Drafting of adult's bodice block and sleeve
2. - Drafting of adult's skirt block
- Adaptation of skirt block to various styles
3. Adaptation of plain sleeve to the following sleeves
 - Ruffle sleeve
 - Bishop sleeve
 - Kimono sleeve
 - Raglan sleeve
 - Dolman sleeve
4. Drafting and adaptation of the following collars
 - Chinese band
 - Shawl collar
 - Stand and fall collar
 - Two Piece notched collar
 - Revers
5. Drafting of lad's saree blouse

RECOMMENDED BOOKS

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

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3.3 DRAPING

L T P
- - 2

RATIONALE

The skill in draping is essential for the diploma holders in fashion technology so that they are able to express design ideas by a three dimensional process of pattern making

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Introduction to:
 - a) Equipment needed
 - b) Grain
 - c) Seam allowances/ease
 - d) Preparation of fabric
 - e) Dress form/dummies

2. Preparation of basic Patterns by draping the following:
 - a) Basic bodice – front and back
 - b) Basic skirt – front and back
 - c) Bodice variation – princess line, yokes with gathers/pleats and cowls

RECOMMENDED BOOKS

1. Draping for Fashion Design by Jaffe, Hilde
2. Fashion from Concept to Consumer by Stephens

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3.4 GARMENT CONSTRUCTION – III

L T P
2 - 8

RATIONALE

The diploma holders in fashion technology 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

Theory

1. Tools and equipments used in marking, cutting, sewing and finishing (02 hrs)

- | | | |
|----|---|----------|
| 2. | Selection of fabrics for | (02 hrs) |
| | <ul style="list-style-type: none"> - Different age groups - Seasons - Occasions - Sex - Activity | |
| 3. | Preparation of fabric for cutting | (04 hrs) |
| | <ul style="list-style-type: none"> - Straightening the fabric - Shrinking the fabric - Ironing/pressing the fabric | |
| 4. | Sequence of cutting | (04 hrs) |
| | Laying out the pattern pieces, marking and transferring the pattern
Details, cutting | |
| 5. | Handling of special fabrics while stitching | (02 hrs) |
| 6. | Construction details | (06 hrs) |
| | <ul style="list-style-type: none"> - Seams and seam finishes - Fullness and its types – Gathers/Pleats - Shirring, Smoking - Plackets and fasteners - Hem finishes | |
| 49 | | |
| 7. | Decorative Details | (04 hrs) |
| | <ul style="list-style-type: none"> - Frills, flounces, peplums - Trimmings - Belts and bows | |
| 8. | Fitting | (08 hrs) |
| | <ul style="list-style-type: none"> - Principles of good fit - Sequence of fitting - Alterations to achieve a good fit | |

Practical Exercises

1. Classification of collars/flat and convertible collars
2. Prepare samples of different types of collars: peterpan, Chinese, shawl, sailors, stand and fall collar
3. Preparing samples of different type of cuffs – lined/unlined
4. Construction of kids wear – A-line frock, romper, casual frock

Note: Exposure to different types of linings and fusing materials available in the market.

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Amstrong
2. Clothing Construction by Doongaji
3. System of Cutting by Zarapkar
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
7. Complete Guide to Sewing by Reader's Digest

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3.5 TRADITIONAL INDIAN TEXTILES

L T P
2 - 2

RATIONALE

The students of fashion technology should know and acquire relevant skills in embroidery techniques of different types of traditional Indian embroideries and textiles. The subject aims at developing skills in various types of stitches, traditional embroidery.

DETAILED CONTENTS

Theory

1. Traditional embroideries (14 hrs)

To study in detail the following traditional embroideries

- Kantha of Bengal
- Kasuti of Karnataka
- Chikankari of Uttar Pradesh.
- Chamba of Himachal Pradesh
- Sindhi from Kathiawar
- Kashida of Kashmir
- Phulkari of Punjab and Haryana
- Zardozi of Uttar Pradesh
- Applique of Orissa

2. To Study in details the following traditional Woven Textiles of India (08 hrs)

Brocades, Chander/Paithani, Maheshwari, Kanchiwaram, Patolas, Pochanpalli, Ikat, Gardwal, Venketagiri

3. To study in details the following traditional Printed Textiles of India (06 hrs)

Sanganeri prints, Bagroo, Tie and Dye – Laharia and Bandhunis

4. To study in details the traditional Painted textiles – Kalamkari (02 hrs)

5. To study in details the traditional Knotted Textiles – Carpets (04 hrs)

PRACTICAL EXERCISES

1. Preparation of samples on following traditional embroideries of different states of India:

- Kantha of Bengal
- Kasuti of Karnataka
- Chikankari of Uttar Pradesh.
- Sindhi from Kathiawar
- Phulkari of Punjab and Haryan

RECOMMENDED BOOKS

1. Embroidered Textiles: Traditional Pattern Form Five Continents by Paine
2. Traditional Embroideries of India by Shailja D. Naik
3. Traditional Indian Embroideries by Samrity Pandit
4. Master Pieces of Indian Textiles by Rustam Mehta
5. Traditional Textiles of India by Kamaldevi Chatopadhya
6. Handicrafts of India by Kamaldevi Chatopadhya
7. Ethenic Indian Embroideries by Usa Srikant
8. Traditional Embroideries by Jamila Brijbhushan

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3.6 HISTORY OF COSTUMES – I

L T P
3 - -

RATIONATE

The students of fashion technology should be able to appreciate our ancient civilization, 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

1. Origin of Clothing: theories – Protection, modesty, Adornment (02 hrs)

2. Ancient Indian Civilizations (22 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 Gandhara 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 (06 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

4. British Period (06 hrs)

- Detailed study of dates, significant developments
- Women's Costumes-dresses, jewellery, hairstyles, footwear

5. Traditional Costumes of India: Types of costumes for male and female, significance of culture and rituals: Jammu and Kashmir, Punjab, Rajasthan, UP, West Bengal, Assam, Maharashtra, Tamil Nadu (12 hrs)

NOTE:

- a) A visit to be National Museum, New Delhi
- ii) Preparation of a portfolio of select fashion silhouettes and accessories of all periods
- iii) Design few contemporary silhouettes based on inspirations drawn from different periods

RECOMMENDED BOOKS

- 1. Indian Costumes by S.N.Dhar
- 2. Costumes of India by Dhar and Parameters
- 3. Ancient Indian Costumes by Roshan Alkazi
- 4. Man's Costumes – Dresses, jewellery, hairstyles, footwear
- 5. Fashion Memoir by Yves Saint Laurent, Pieme Berge
- 6. A History of Costume in the West by Boucher
- 7. Costume 1066-1990's by Peacock

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3.7 GARMENT MANUFACTURING MACHINERY

L T P
3 - -

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. The main types of stitching machinery and their used in garment assembly (industry setup)

- Dismantling and assembly of a treadle
(04 hrs) operated sewing machine with all
attachments
2. General purpose of sewing machines:
Working of sewing machines hand
operated, treadle operated and electric
operated. Function of different
components of sewing machine
(06 hrs) Demonstration of parts of various
machines or visit to a garment
manufacturing unit to study different
types of garment manufacturing
machines
3. Attachments: Tuckers, hemmer, seam,
guide, binders, quilters button hole,
attachment folders, trimmers
(10 hrs)
4. Elementary knowledge of following
machines and their components:
- Lock stitch machine
- Chain stitch machine
- Over lock machine
- Button hole machine
- Zig-zag machine
- Double needle lockstitch machine
- Bar-tracking machine
- Blind stitch machine
- Flat lock machine
(10 hrs)
5. Necessity of preventive periodic and
corrective maintenance
(04 hrs)
6. Types of lubricating oil used,
maintenance schedule for lubricating
the machines
(02 hrs)
- DEMONSTRATION WHILE
TEACHING**
7. Common defects of sewing machine
(03 hrs)
8. Fedral stitch standards – various stitch
types as per international standards –
class 100,300,500,600
(07 hrs)
- Dismantling and assembly of a hand
operated sewing machine
- Usage of various components of
machines with respect to various
operations
9. Fusing and Pressing equipment
(02 hrs)
- 55
- Cleaning and lubricating of different
types of sewing machines

Demonstrate various types of stitches in the laboratory or visit to a garment manufacturing unit to show various types of stitches

Rectification of sewing machine defects

Exercises on fusing and pressing of garments

INSTRUCTIONAL STRATEGY

The students should be given exercises on fault finding and repairing the defective machines by demonstration so that they are able to maintain the garment machinery in proper working condition

FOURTH SEMESTER

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4.1 GARMENT DESIGN – II

L T P
- - 8

RATIONALE

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

DETAILED CONTENTS

Practical Exercises

Creating designs for men/women by taking inspiration from various sources of nature, architecture history etc.

SECTION – A

1. Designing Indian wear (traditional)

- Saree Blouses
- Salwar-Kameez
- Kurta – Churidar Pujami

2. Designing of western wear

- Skirt-top
- One-piece dress
- Trouser tops
- Formal evening wear

3. Designing of sports wear

- Track suit
- Tennis skirts/short and tops
- Cycling Shorts

SECTION –B

1. Prepare a scrap book with fashion news, designs and pictures etc.

Note: The students are required to use various colour mediums for designing

INSTRUCTIONAL STRATEGY

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

RECOMMENDED BOOKS

1. Fashion Drawing Designs; Magazine of Thailand

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

58

4.2 PATTERN MAKING AND GRADING

L T P
- - 8

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. Dart manipulation by:
 - Slash and spread method
 - Pivot method
2. Dart manipulation into:
 - Single dart series
 - Two dart Series
 - Multiple dart Series
 - Single lines – princess and empire
 - Yokes
3. Addition of fullness through
 - Conversion and relocation of darts
 - Additional fullness
4. Developing patterns for children garments
 - frocks
 - Rompers/Jump suits
 - Skirts and tops
5. Grading the above patterns to various sizes

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 by Armstrong
4. Basic Pattern Skills for Fashion Design by Bernard Zamkoft
5. Designing Apparel Through the Flat Pattern by Ernestine Kopp

4.3 GARMENT CONSTRUCTION – IV

L T P
- - 8

RATIONALE

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

DETAILED CONTENTS

Practical Exercises

1. Construction of party frock
2. Construction of Jump Suit
3. Construction of boys shorts
4. Construction of boys shirt
5. Construction of skirt and top

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Amstrong
2. Clothing Construction by Doongaji
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

4.4 HISTORY OF COSTUMES – II

61

L T P
3 - -

RATIONALE

The students of fashion technology should appreciate fashion developments of the western Civilizations and to draw the inference on their influence on costumes of the World.

DETAILED CONTENTS (Theory)

Introduction to the Civilizations

1. Egyptian costumes (05 hrs)
 - a) Detailed study of dates, significant developments, mummification
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
2. Greek Costumes (05 hrs)
 - a) Detailed study of dates, significant developments,
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
3. Roman Period (05 hrs)
 - a) Detailed study of dates, significant developments,
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
4. Byzantine Period (05 hrs)
 - a) Detailed study of dates, significant developments,
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
5. Renaissance (06 hrs)
 - a) Detailed study of dates, significant developments,
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
6. Victorian period (06 hrs)
 - a) Detailed study of dates, significant developments,
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
7. French Revolution (08 hrs)
 - a) Detailed study of dates, significant developments,
 - b) Women's Costumes-dresses, jewellery, hairstyles, footwear
 - c) Men's costumes – dresses, jewellery, hairstyles, footwear
8. 20th Century Fashion (08 hrs)
 - a) Significant development periodwise – decadewise

- b) Designers – Indian and International and their contribution
- c) Development of Fashion Industry and its role

Note: Classics movie like Cleopetra, Ten Commandments, Julius Ceaser, Heien of Troy, Elizabeth, Titanic Should be shown to the students depicting fashion of different periods

ASSIGNMENT

1. Preparation of a Portfolio of selected fashion silhouettes and accessories of all periods
2. Design few contemporary silhouettes based on inspirations drawn from different periods

RECOMMENDED BOOKS

1. 20TH Century “Fashion by Peacock J
2. Fashion Memoir by Yves Saint Laurent, Pieme Berge
3. A History of Costume in the West by Boucher
4. Costume 1066 – 1990’s by peacock
5. World Costume
6. The Concise History of Fashion

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4.5 BASICS OF INFORMATION TECHNOLOGY

L T P
- - 4

RATIONALE

Information technology has 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 information technology such as understanding the concept of information technology and its scope; operating a computer; use of various tolls 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. Information Technology – its concept and scope
 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
- 64
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
 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. Given a PC, name its various components and list their functions
2. Identification of various parts of a computer and peripherals
3. Practice in installing a computer system by giving connection and loading the system software and application software
4. Installation of DOS and simple exercises on TYPE, REN, DEL, CD, MD, COPY, TREE, BACKUP commands
5. Exercises on entering text and data (Typing Practice)
6. Installation of Windows 98 or 2000 etc.
 - (1) 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

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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,
- 66
- 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

- 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. Internet and its Applications

- a) Log-in to internet
 - b) Navigation for information seeking on internet
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- 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
7. Fundamentals of Information Technology by Leon and Leon; Vikas Publishing House Pvt. Ltd., Jungpura, New Delhi

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4.6 FASHION RETAILING

L T P
2 - 2

RATIONALE

Some diploma holders of fashion technology may find employment in apparel merchandising and retailing agencies. So the aim of the subject is to enable students

to appreciate the unique aspects and concepts of retailing etc. It focuses attention on apparel business giving a thorough knowledge of retailing.

DETAILED CONTENTS

Theory

1. Concept of retailing (04 hrs)
2. Introduction to various terms
Cost price, selling price, markups, markdowns (04 hrs)
3. Introduction to retail organisations (16 hrs)
 - Departmental store
 - Discount store
 - Speciality store
4. Concept of wholesale merchants and agents (04 hrs)
5. Sales promotion policies – procedures (02 hrs)
6. Concept of visual merchandising (02 hrs)

Practical Exercises

1. Identification of a retail outlet in the local area
2. Studying the present display of the organisation
3. On the basis of latest market trends, working on the displays at windows of these reputed outlets
4. Customer/client feedback
5. Improvement of the display with regards to the feedback

INSTRUCTIONAL STRATEGY

The subject is more practical in nature. Assignments can be taken up in the window display of local retail outlets.

RECOMMENDED BOOKS

1. Inside Fashion Business
2. Fashion Merchandising
3. Fashion and Retail Merchandising
4. Retailing

ENTREPRENEURIAL AWARENESS CAMP

This is to be organized at a stretch for two to three days during second year. Lectures will be delivered on the following broad topics. There will be no examination for this subject

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

FIFTH SEMESTER

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5.1 ADVANCED PATTERN MAKING – I

L T P
- - 8

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. Drafting of kalidar kurta and churidar pyjama
3. Developing patterns for
 - Lady's skirts
 - Lady's tops
 - Lady's nightwear
4. Lady's Trousers
 - Drafting of lady's trousers
 - Adaptation of lady's trousers to various styles
 - Developing patterns of the various styles (3 styles)
5. Drafting of Men's Shirt

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Helen Joseph Armstrong
2. The ABC's of Grading by Murray Sacher
3. Pattern Making for Fashion design by Armstrong
4. Basic Pattern Skills for Fashion Design by Bernard Zamkoff
5. Design Apparel Through the Flat Pattern by Ernestine Kopp

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5.2 GARMENT CONSTRUCTION - V

L T P
- - 10

RATIONALE

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

DETAILED CONTENTS

Practical Exercises

1. Construction of lady's salwar kameez
2. Construction of lady's kalidar kurta and churdiar pyjama
3. Construction of lady's saree blouse
4. Construction of lady's lehnga choli
5. Construction of gent's shirt

RECOMMENDED BOOKS

1. Pattern Making for fashion design by Armstrong
2. Clothing Construction by Doongaji; Raj Parkashan, Delhi
3. System of Cutting by Zarpakar
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 You Look and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York

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, 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
(Software: Use of Corel Draw and Photoshop)

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. Draw 3 profiles of female flesh figures (front, back and side view)
5. Design a nursery print
6. Design an executive wear along with accessories
7. Drape a saree with masking effect
8. Pick up a costume worn by a famous fashion model. Scan his/her figure and redesign the texture and the color combination of the dress.
9. Design a mood/story board according to the selected theme (both paper and computer assignment)
10. Design 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
- c) Latest information through media
- f) Personal interaction with the apparel industry people

RECOMMENDED BOOKS

Literature from the supplier of each software can be consulted

Corel Draw 9 – BPB Publication

Adobe Photoshop 5.5 – BPB Publication

5.4 PRODUCTION MANAGEMENT AND QUALITY CONTROL

RATIONALE

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

DETAILED CONTENTS

PART A: PRODUCTION MANAGEMENT

1. Introduction to Basic Production Terms (04 hrs)
Production, productivity, work in process, time study, motion study, work study, ergonomics
2. Production Planning and control (08 hrs)
 - Types of production processes, job, batch and mass production
 - Raw material planning and allocation
 - Process planning and process sheet
 - Methods of Production control
3. Plant Layout and Material Handling (10 hrs)
 - Concept of plant layout
 - Types of layout (process, product and combination type) and their characteristics
 - Factors affecting plant layout
 - Methods of plant layout
 - Workstation design: Factors considered in designing a work station
4. Material Handling (08 hrs)
 - Introduction and functions of material handling
 - Material handling equipment – their selection
 - Safety requirements while using material handling equipment

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PART B: QUALITY CONTROL

5. What is Quality (04 hrs)
 - Need for quality control

- Quality Control
 - Quality Assurance
 - Quality Standard
6. What is Inspection (06 hrs)
- Different types of inspection
 - Various methods
 - Role of operation and inspector in inspection
7. ISO-9000 (06 hrs)
- Introduction to ISO-9000 system
 - What is ISO and related quality serials
 - Benefits of ISO 9000
 - Cost distribution for ISO certification fees per garment
8. Introduction to Quality Control concepts (10 hrs)
- Accepted quality level (AQL); Total quality management (TQM)
9. Major/minor defects classification and criteria of rejection/acceptance (10 hrs)
- Stain removal, washing, dry cleaning, ironing, labeling and packaging

LIST OF PRACTICAL

1. Analyzing test reports as per given specification of the buyer
2. Demonstration of basic fabric defects
3. Demonstration of sewing, finishing and packaging defects through a visit to an Industrial visit
4. Care label
 - a) Collection of wash care labels
 - b) Sketching and understanding of symbols

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 SK Bhardwaj and PV Mehta; New Age Publisher, Delhi
2. ISO 9000 – Textile Committee Manual

5.5 FASHION AND APPAREL MERCHANDIZING

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L T P
4 - -

RATIONALE

Some diploma holders of fashion technology 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 their quota systems. It focuses attention on apparel industry giving thorough knowledge of merchandizing.

DETAILED CONTENTS

1. Apparel Industry Profile (18 hrs)
 - 1.1 Current Indian export and India's position in the world apparel/textile market
 - 1.2 Apparel cluster along with their specialities – Mumbai, Chennai, Ludhiana, Delhi etc.
 - 1.3 Organizational structure of export house, buying houses and domestic companies
 - 1.4 Buyer classification and buying network in exports
 - 1.5 A basic profile of industry in far east, USA, Europe, Australia and ECE
 - 1.6 Understanding of the quota system and relevance of AEPC (Apparel Exports and Promotion Council)

2. Fashion merchandizing (12 hrs)
 - 2.1 Study of fashion principles, theories and fashion cycle and terminology
 - 2.2 Introduction to fashion marketing and merchandizing principles – retail, whole sale, boutique, designer – wear, couture, prêt-o-porter (ready to wear), haute couture (hi-fashion)
 - 2.3 Study of domestic and international market – past, present and future scenario – evolution of fashion
 - 2.4 Economical social, environmental and political influences of fashion

3. Sourcing (22 hrs)
 - 3.1 Assignment based on the market survey within the local market for various fabrics, trims and accessories
 - 3.2 Factors in deciding fabrics, price, quality, lead time, factory suitability, fly accessibility
 - 3.3 Trim sourcing – buttons, beads, laces, labels, tags, packaging
 - 3.4 Costing Pricing – cost price, selling price, backward costing

Note: 3.1, 3.2, 3.3 and 3.4 should be covered with the market survey and theoretical inputs.

RECOMMENDED BOOKS

1. Fashion from Concept to Consumer
2. Fashion and Retail Merchandising
3. Inside the fashion Business by Joonow, Jea
4. Fashion Merchandising by Stone, Ela
5. Ready to Wear Apparel Analysis by Petty and Brown

SIXTH SEMESTER

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6.1 ADVANCED PATTERN MAKING – II

L T P
- - 8

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, increase or decrease any pattern proportions and prepare commercial patterns.

DETAILED CONTENTS

Practical Exercises

1. Preparing Commercial Patterns along with layout for the following
 - Frock
 - Lady's skirt
 - Lady's shirt
 - Lady's trouser
 - Men's trouser
 - Men's waistcoat

RECOMMENDED BOOKS

1. Pattern Cutting for Women's Outwear by Cooklin, Gerry
2. Islamic Patterns: An Analytical and Cosmological Approach by Critchlow
3. Repeat Patterns: A Manual for Designers, Artists and Architects by Phillips and Bunce

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 prints, textures, repeats, color ways and drapes using fashion studio software
2. Knowledge and operation of CAD package for pattern making/digitizing/grading/ market making

The software can be any one from the following:

- a) Lectra
- b) Tuka Tech. Inc U.S.A.
- c) Gerber Garment Technology (GGT)
- d) Any other pattern making package available in markets (latest version)

INSTRUCTIONAL STRATEGY

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

6.3 INDUSTRIAL MANAGEMENT

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L T P
4 - -

RATIONALE

The knowledge of this subject is required of all diploma holder who wish to choose industry/field as his career. This course is designed to develop understanding of

various functions of management, role of workers and engineers and providing knowledge about safety and labour, industrial and tax laws.

DETAILED CONTENTS

Theory

- 1. Principles of Management** (2 hrs)
 - * Management, different functions of management: Planning, organizing, coordination and control.
 - * Structure of an industrial organization.
 - * Functions of different departments. Relationship between individual departmental.

- 2. Human and Industrial Relations** (4 hrs)
 - * Human relations and performance in organization.
 - * Understand self and others for effective behaviour.
 - * Behaviour modification techniques.
 - * Industrial relations and disputes.
 - * Relations with subordinates, peers and superiors.
 - * Characteristics of group behaviour and trade unionism
 - * Mob psychology
 - * Grievance, handling of grievances.
 - * Agitations, strikes lockouts, picketing and gherao
 - * Labour welfare.
 - * Workers, participation in management.

- 3. Professional Ethics** (4 hrs)
 - * Concept of ethics.
 - * Concept of professionalism.
 - * Need for professional ethics.
 - * Code of professional ethics.
 - * Typical problems of professional engineers.
 - * Professional bodies and their role.

- 4. Motivation** (4 hrs)
 - * Factors determining motivation
 - * Characteristics of motivation.

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 - * Methods for improving motivation.
 - * Incentives, pay, promotion, rewards.
 - * Job satisfaction and job enrichment.

- 5. Leadership** (4 hrs)
 - * Need for leadership.

- * Functions of a leader.
- * Factors for accomplishing effective leadership.
- * Manager as a leader.

6. Human Resource Development (4 hrs)

- * Introduction.
- * Staff development and career development.
- * Training strategies and methods.

7. Wage Payment (4 hrs)

- * Introduction
- * Classification of wage payment scheme.

8. Labour, Industrial and Tax Laws (6 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; Workmen Compensation Act 1923; Industrial Dispute Act 1947; Employee' State Insurance Act, 1948; Provident Fund Act.
- * Various types of Taxes-Production Tax, Local Tax, Sales Tax, Excise Duty, Income Tax.
- * Labour Welfare schemes.

9. Accidents and Safety (4 hrs)

- * Classification of accidents; according to nature of injuries i.e. fatal, temporary; according to event and 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 accident with machines, electric shock, road accident, fires and erection and construction accidents.
- * Safety consciousness & publicity.
- * Safety procedures.
- * Safety measures-Do's and don'ts & good housekeeping (55).
- * Safety measures during executions of Electrical Engineering works.

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10. Environment Engineering (4 hrs)

- * Ecology.
- * Factors causing pollution.

- * Effects of pollution on human health.
- * Air Pollution and control act.
- * Water pollution & control Act
- * Noise pollution.

11. Materials Management (4 hrs)

Material in industry, inventory control model, ABC Analysis, Safety stock, Re-order, level, Economic ordering quantity, Stores equipment, Stores records, purchasing procedures, purchase records, Bin card, Cardex, Material handling, Manual lifting, Hoist, Cranes, conveyors, trucks, fork trucks.

12. Financial Management (4 hrs)

Important, ledger, Journal, Profit and Loss Account, balance Sheet, Interpretation of Statements, Ration Analysis, Project financing, Project appraisal, return on investments.

13. Marketing and Sales (4 hrs)

Sellers and Buyers markets, Marketing, Sales, Market conditions, monopoly, oligraphy, perfect competition, Cost Elements of Cost, Contribution, Break even analysis, Budgets, Pricing Policies.

RECOMMEDNDED BOOKS

1. Industrial Engineering and Management by TR Banga.
2. Industrial Engineering and Management by OP Khanna, Dhanpat Rai Publications, Delhi.
3. Industrial Management by VK Sharma, OP Harkut.
4. Sharma BR, Environmental and Pollution Awarness: Satya Prakashan, New Delhi
5. Thakur Kailash, Environment Protection Law & Policy in India: Deep & Deep publication, New Delhi.
6. Handbook of small scale Industry by P.M. Bhandari.
7. Marketing Management by Philip Kotler, Prentice Hall of India, New Delhi.
8. Principles of Management by Philip Kotler, TEE Publication.

6.4 ART PORTFOLIO

RATIONALE

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 and domestic markets

DETAILED CONTENTS

Practical Exercises

Design portfolio to be created

1. Design Collection
 - a) Select a theme and develop mood boards using computer skills
 - b) Design and illustrate 10 designs
2. Create 2 designs each for the following:
 - a) Casual wear
 - b) Evening wear
 - c) Bridal wear
 - d) School uniforms
 - e) Design sports wear for teenagers (16 – 19 years)
 - f) Design for elderly persons (casual and formal)
 - g) Night wear for school going, men and women

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 technology should be able to incorporate what he has learnt in the last five semesters through this diploma programme in the live presentation

DETAILED CONTENTS

Practical Exercises

1. Making a design Collection
 - Selection of a theme
 - Finalising five designs
 - Development of designs into garments
 - Final presentation of the garments

2.
 - Training with a Boutique/domestic garment production house for minimum of 4 weeks/one month
 - Submission of a report at the end of training

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, teacher who has guided the project. The project work should be properly displayed by the student

9. RESOURCE REQUIREMENT

9.1 Physical Resources

9.1.1 Space Requirement

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

9.1.2 Equipment Requirement

Sr. No.	Details of Equipments	Qty	Tentative cost per unit
A) DRAFTING AND PATTERN MAKING WORKSHOP			
1.	Drafting tables (2.5 X 1.5 x 1mt) with cork boards	12	7,000
2.	Drafting squares (Graduated)	06	1,000
3.	Full size mirror – 6 ft. x 4 ft.	LS	8,000
4.	Scissors 5”,9”,12” (blade size)	2each	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)		
7.	Pinking shears 10” blade	06	1,200
8.	Miscellaneous equipment: Tailors art curves, measuring tapes, meter scales, thimbles, tracing wheel, readymade patterns, puncher notcher	6 Sets	10,000
9.	Steam Iron with 1 boiler	2	25,000
88			
Sr. No.	Details of Equipments	Qty	Tentative cost per unit

B) CONSTRUCTION LABORATORY

1.	Sewing Machine (Industrial Machines) (Juki/Brother make)	15	25,000
2.	Cutting Tables with felt top (2.5 x 1.5 x 1mt)	04	8,000
3.	Over lock machine:(Juki/Brother) Motorized 5 Thread	02	1,20,000
4.	Ironing boards and sleeve boards	02each	10,000
5.	Flat Lock (Juki/Brother)	01	15,000

C) INDUSTRIAL MACHINE WORKSHOP

1.	Button Hole Machine (Motorized)	01	1,25,000
2.	Eyelet Button Hole Machine	01	2,00,000
3.	Button Stitch Machine	01	1,00,000
4.	Double needle lock stitch machine	01	80,000
5.	Steam Iron with Boiler (work station)	02	50,000
6.	Electric cutter (Straight knife 8” blade, round Blade) Eastman	01	80,000
7.	Flat bed – Fusing machine	01	1,00,000
8.	Notcher	01	10,000
9.	Rivet Attaching Machine	01	10,000
10.	Drilling Machine	01	11,000
11.	Manual Spreading machine	01	22,000

D) COMPUTER LABORATORY

1.	PC Computer	30	40,000
2.	Laser Printer	01	15,000

Sr. No.	Details of Equipments	Qty	Tentative cost per unit
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3. Software:
Windows, MS Office, latest version Coral Draw, LS 3,00,000
Adobe Photoshop

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

E) CAD LABORATORY

Set of digitizer and scanner

Software: Lectra/GGT/Tuka technology and any other 7,00,000
available software (purchase any one) (Technical Institutes
are given special concession for purchase of certain software
as these are used for training purpose)

F) 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. | Spirit Lamps (125 ml) | 15 | 2,000 |
| 4. | Basin | 6 | 200 |
| 5. | Pick Counting Glass(1" x 1/2" x 1/4") | 20 | 500 |
| 6. | Electronic Weighing Balance (0.001-200 gm) (Electronic) | 01 | 2,000 |
| 7. | Crockometer | 01 | 5,000 |
| 8. | 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 Yarn of different types | LS | 10,000 |
| 9. | Water Bath | 01 | 5,000 |
| 10. | Laundrometer | 01 | 20,000 |

Sr. No.	Details of Equipments	Qty	Tentative cost per unit
11.	Grey Scale Set	01	11,500

12.	Printing Table	02	6,000
13.	Blocks (Printing)	25	5,000
14.	Spectrometer	01	10,000
15.	Fabric Inspection Table	01	10,000

9.2 Human Resource Requirement

Weekly work schedule, annual work schedule, student-teacher ratio for various group and class size, staffing pattern, work load norms, qualifications, experience and job description of teaching staff, workshop staff and other administrative staff may be worked out as per norms and standards laid down by AICTE

Following are the qualifications and experience suggested for the teaching faculty and technical staff

Qualification	Experience
<u>Lecturer</u>	
First Class Post Graduate Diploma in Garment Manufacturing/Fashion Design of NIFT/NIID/ NIIFT or equivalent	One year experience
OR	
First Class Graduate with diploma in Garment Technology or Fashion Design/Technology or equivalent	2 years experience in the relevant field
OR	
First Class three year diploma in Garment Technology or Fashion Design/Technology or equivalent	5 years experience in relevant field
OR	
First Class Post Graduate Degree (M.Sc.) in Clothing and Textiles or equivalent	2 years experience in relevant field
OR	
First Class Post Graduate Diploma in Dress Designing or equivalent	

<p><u>Sr.Lecturer</u></p> <p>First Class Post Graduate Diploma in Garment Manufacturing/Fashion Design of NIFT/NIID/ NIIFT or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class Graduate with diploma in Garment Technology or Fashion Design/Technology or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class three year diploma in Garment Technology or Fashion Design/Technology or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class Post Graduate in Clothing and Textile or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class Post Graduate in Diploma in Dress Designing or equivalent</p>	<p>3 years experience in relevant field</p> <p>5 year experience in teaching/ industry/ field at the level of Lecturer or equivalent</p>
<p><u>Head of Department</u></p> <p>First Class Post Graduate Diploma in Garment Manufacturing/Fashion Design of NIFT/NIID/ NIIFT or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class Graduate with diploma in Garment Technology or Fashion Design/Technology or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class three year diploma in Garment Technology or Fashion Design/Technology or equivalent</p> <p style="text-align: center;">OR</p> <p>MBA/MSc(Clothing and Textile)/ Post Graduate Diploma in Garment Technology or equivalent</p> <p style="text-align: center;">OR</p> <p>First Class post Graduate Diploma in Dress Designing or equivalent</p>	<p>5 years experience in teaching/industry/ research at the level of Lecturer or equivalent</p>
<p><u>Technician</u></p> <p>3 years diploma in Garment Technology or Fashion Design/Technology or Equivalent</p>	<p>2 years practical experience</p>

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 organized 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 technology 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 show, exhibition etc
- k) The teachers should be given extensive training in the use of computers

11 LIST OF PARTICIPANTS

- a) The following experts participated /contributed in the revision of curriculum for diploma programme in Fashion Technology for Haryana during the workshop for revision of first year for Haryana state held on 26-27 May, 2003 at National Institute of Technical Teacher's Training and Research, Chandigarh

Sr.No. Name, Designation and Official Address

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1. Ms. Poonam Thakur
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2. Ms. Shipra Chauhan
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NIIFT, C-115, Phase – VII,
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From NITTTR, Chandigarh

3. Dr. K.M.Rastogi
Professor & Head
Curriculum Development Centre
4. Mr. S.K.Gupta (Co-ordinator)
Lecturer (Selection grade)
Curriculum Development Centre

- b) The following experts participated /contributed in the revision of curriculum for diploma programme in Fashion Technology for Haryana state held on 6-7 November, 2003 at National Institute of Technical Teacher's Training and Research, Chandigarh.

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7. Mrs. Jatinder Sohi
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- c) The following experts participated /contributed in the revision of curriculum for diploma programme in Fashion Technology for Haryana state held on 28 – 29 January, 2004 at National Institute of Technical Teacher’s Training and Research, Chandigarh

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