

5.1 ADVANCED PATTERN MAKING - I

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RATIONALE

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

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Women's Shirts
 - Drafting Women's shirts
 - Adaptation of the women's shirt to various styles (3 Styles)
2. Drafting of kalidar kurta and churidar pyjama
3. Developing patterns for Women's
 - Skirts
 - Tops
 - Nightwear
4. Women's Trousers
 - Drafting of Women's trousers
 - Adaptation of Women's trousers to various styles (3 Styles)
5. Drafting of Men's:
 - Shirt Trouser
 - Nightwear

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

5.2 GARMENT CONSTRUCTION - V

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RATIONALE

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

DETAILED CONTENTS

Practical Exercises

Construction of women's garments such as:

- i) Salwar kameez
- ii) Kalidar kurta and churdiar pyjama
- iii) Saree blouse
- iv) Lehnga choli
- v) Night wear (in Knits)

RECOMMENDED BOOKS

1. Pattern Making for Fashion design by Armstrong
2. Clothing Construction by Doongaji; Raj Parkashan, Delhi
3. System of Cutting by Zarapkar
4. Clothing Construction by Evelyn A Mansfield, Houghton Mifflin Co., Boston
5. Creative Sewing by Allynne Bane; McGraw Hill Book Co., Inc., New York
6. How You Look and Dress by Byrta Carson; McGraw Hill Book Co., Inc., New York
7. Complete Guide to Sewing by Reader's Digest

5.3 CAD IN GARMENT TECHNOLOGY - III

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RATIONALE

The term CAD has found its way into all major disciplines that have got anything to do with designing or drafting techniques. The major objective of this course is to expose the students to different softwares available in the field of garment technology, so that they are able to use those software in the design and construction of various garments

DETAILED CONTENTS

PRACTICAL EXERCISES

1. Knowledge and operation of CAD package for pattern making, digitizing, grading and marker making

Select any one of the software from the following:

- a) Lectra
- b) Tuka Tech. Inc. U.S.A.
- c) Gerber Garment Technology (GGT)
- d) Reach Technologies
- e) 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 marker making of different garment items. The teacher may arrange expert lectures/demonstration on CAD exercises by inviting professionals from the garment industry.

5.4 QUALITY CONTROL IN APPAREL INDUSTRY

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3 - 2

RATIONALE

Diploma holders in garment technology are required to monitor the quality of the garments on the shop floor. They are also required to inspect the garments during their construction.

DETAILED CONTENTS

THEORY

1. What is Quality (04 hrs)
 - Need for quality control
 - Quality Assurance
 - Quality Standard
 - Benefits of quality
2. What is Inspection (10 hrs)
 - Meaning
 - Different types of inspection
 - Raw material inspection
 - Fabric (4 point system/10 point system)
 - In process inspection
 - Final inspection
 - Role of inspector in inspection
3. ISO – 9001-2008 & SA 8000 (10 hrs)
 - Need and benefits of Compliance
 - Introduction to ISO 9001-2008 system
 - Details of ISO and related quality serials
 - Benefits of ISO 9001-2008
 - Different Certification Agencies
 - Introduction to SA 8000
 - Requirements of SA 8000
4. Introduction to Quality Control concepts (14 hrs)
 - How to start quality control systems
 - Accepted quality level (AQL)
 - Statistical Quality Control
 - Total quality management (TQM)

- Cost of quality
 - Customer return
 - Tools of quality
 - Report making (inspection reports)
5. Testing of fabrics: (10 hrs.)
- Pre-requisites for testing, atmospheric conditions for testing
 - Strength properties of fabrics
 - Bow and skewness
 - Yarn distribution in woven fabrics
 - Color fastness testing
 - Sewing thread
 - Zipper
 - Buttons and snap fastness

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 garment industrial house
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 aspects of quality control 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
3. Textile Testing by J.E. Booth

SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (Hrs)	Marks Allotted (%)
1	4	8
2	10	20
3	10	20
4	14	32
5	10	20
Total	48	100

5.5 GENERIC SKILLS AND ENTREPRENEURSHIP DEVELOPMENT

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3 - -

RATIONALE

Generic Skills and Entrepreneurship Development is one of the courses from “Human Science” subject area. Generic skills have emerged as an important component of employability skills, which enable an individual to become and remain employable over lifetime and to lead happy and prosperous life. Entrepreneurship development aim at developing conceptual understanding for setting-up one’s own business venture/enterprise. This aspect of Human Resource Development has become equally important in the era, when wage employment prospects have become meager.

Both the subject areas are supplementary to each other and soft skills are required to be developed in diploma passouts for enhancing their employability and self confidence.

DETAILED CONTENTS

1. Introduction to Generic Skills (4 hrs)
 - 1.1 Importance of Generic Skill Development (GSD)
 - 1.2 Global and Local Scenario of GSD
 - 1.3 Life Long Learning (LLL) and associated importance of GSD.
2. Managing Self (8 hrs)
 - 2.1 Knowing Self for Self Development
 - Self-concept, personality, traits, multiple intelligence such as language intelligence, numerical intelligence, psychological intelligence etc.
 - 2.2 Managing Self - Physical
 - Personal grooming, Health, Hygiene, Time Management
 - 2.3 Managing Self – Intellectual development
 - Information Search: Sources of information
 - Listening: Effective Listening
 - Speaking: Effective Oral Communication
 - Reading: Purpose of reading, different styles of reading, techniques of systematic reading; Note Taking: Importance and techniques of note taking
 - Writing: Correspondence - personal and business

Note: Practical sessions should be coupled with teaching of effective listening, speaking, reading and writing.

2.4 Managing Self – Psychological

- Stress, Emotions, Anxiety-concepts and significance (Exercises related to stress management)
- Techniques to manage the above

3. Managing in Team (6 hrs)

- 3.1 Team - definition, hierarchy, team dynamics
- 3.2 Team related skills- sympathy, empathy, co-operation, concern, lead and negotiate, work well with people from culturally diverse background
- 3.3 Communication in group - conversation and listening skills

4 Task Management (3 hrs)

- 4.1 Task Initiation, Task Planning, Task execution, Task close out
- 4.2 Exercises/case studies on task planning towards development of skills for task management

5. Problem Solving (5 hrs)

- 5.1 Prerequisites of problem solving- meaningful learning, ability to apply knowledge in problem solving
- 5.2 Different approaches for problem solving.
- 5.3 Steps followed in problem solving.
- 5.4 Exercises/case studies on problem solving.

6. Entrepreneurship

6.1 Introduction (22 hrs)

- Concept/Meaning and its need
- Competencies/qualities of an entrepreneur
- Entrepreneurial Support System e.g., District Industry Centres (DICs), Commercial Banks, State Financial Corporations, Small Industries Service Institute (SISIs), Small Industries Development Bank of India (SIDBI), National Bank of Agriculture and Rural Development (NABARD), National Small Industries Corporation (NSIC) and other relevant institutions/organizations at State/National level.

6.2 Market Survey and Opportunity Identification (Business Planning)

- How to start a small scale industry
- Procedures for registration of small-scale industry
- List of items reserved for exclusive manufacture in small-scale industry

- Assessment of demand and supply in potential areas of growth.
- Understanding business opportunity
- Considerations in product selection
- Data collection for setting up small ventures.

6.3 Project Report Preparation

- Preliminary Project Report
- Techno-Economic Feasibility Report
- Exercises on Preparation of Project Report in a group of 3-4 students

INSTRUCTIONAL STRATEGY

This subject will require a blend of different teaching and learning methods beginning with lecture method. Some of the topics may be taught using question answer, assignment, case studies or seminar. In addition, expert lectures may be arranged from within the institution or from management organizations. Conceptual understanding of Entrepreneurship, inputs by teachers and outside experts will expose the students so as to facilitate in starting ones own business venture/enterprise. The teacher will discuss success stories and case studies with students, which in turn, will develop managerial qualities in the students. There may be guest lectures by successful diploma holding entrepreneurs and field visits also. The students may also be provided relevant text material and handouts.

RECOMMENDED BOOKS

1. Soft Skills for Interpersonal Communication by S.Balasubramaniam; Published by Orient BlackSwan, New Delhi
2. Generic skill Development Manual, MSBTE, Mumbai.
3. Lifelong learning, Policy Brief (www.oecd.org)
4. Lifelong learning in Global Knowledge Economy, Challenge for Developing Countries – World Bank Publication
5. Towards Knowledge Society, UNESCO Paris Publication
6. Your Personal Pinnacle of Success by DD Sharma, Sultan Chand and Sons, New Delhi
7. Human Learning, Ormrod
8. A Handbook of Entrepreneurship, Edited by BS Rathore and Dr JS Saini; Aapga Publications, Panchkula (Haryana)
9. Entrepreneurship Development by CB Gupta and P Srinivasan, Sultan Chand and Sons, New Delhi
10. Handbook of Small Scale Industry by PM Bhandari

SUGGESTED DISTRIBUTION OF MARKS

Topic No.	Time Allotted (hrs)	Marks Allotted (%)
1.	4	5
2.	8	15
3.	6	10
4.	3	10
5.	5	10
6.	22	50
Total	48	100

5.6 MINOR PROJECT WORK (Industry Oriented)

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RATIONALE

Realizing the great importance of students' exposure to world of work for his professional growth, two spells of industry oriented projects-minor and major have been included in the curriculum. It is necessary that teachers play a pro-active role in planning and guidance of individual student for optimizing the benefits of the activity in stipulated time.

Minor project work aims at exposing the students to industrial/field practices so as to have an appreciation of size, scale and type of operations; and work culture in the industries. Also the students will be able to correlate concepts, principles and practices taught in the classroom with their application in solving field/industrial problems. The work done in minor project work will also prepare them in taking up problem solving at later stage under major project work.

Depending upon the interests of the students and location of the organization, the students may be asked to develop following design portfolio: *(This is only suggestive, however other problems may also be identified depending of local industries)*

Design portfolio to be created

1. Market Study

- a) Select a brand / retail outlet/garment supplier/garment machinery (any one)
- b) Latest trends of the selected one in the following aspects:
 - Introduction
 - History and growth
 - Market performance
 - Promotional techniques

Note:

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 and teacher who have guided the project.

PERSONALITY DEVELOPMENT AWARENESS CAMP

This is to be organized at a stretch for two to three days during fifth or sixth semester. Extension Lectures by experts or teachers from the polytechnic will be delivered on the following broad topics. There will be no examination for this subject.

1. Communication Skills
2. Correspondence and job finding/applying/thanks and follow-up
3. Resume Writing
4. Interview Techniques: In-Person Interviews; Telephonic Interview' Panel interviews; Group interviews and Video Conferencing etc.
5. Presentation Techniques
6. Group Discussions Techniques
7. Aspects of Personality Development
8. Motivation
9. Leadership
10. Stress Management
11. Time Management
12. Interpersonal Relationship
13. Health and Hygiene