

6.1 ADVANCED PATTERN MAKING – II

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RATIONALE

The students are supposed to perform the jobs of pattern maker when engaged in garment manufacturing. After going through this subject, 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

6.2 CAD IN FASHION TECHNOLOGY - II

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RATIONALE

The term CAD has found its way into all major disciplines that have got anything to do with designing or drafting techniques. The 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/marker 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 marker 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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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 departments.

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.

- 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.

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.

RECOMMENDED 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, Environm,enttal and Pollution Awareness: 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

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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

6.5 PROJECT WORK

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RATIONALE

Individual creativity is expressed in design collections. It will enable them to comprehend the relevance of class-room knowledge and skills. Therefore, a student of fashion 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