## PROPOSED CURRICULAR STRUCTURE FOR PART-III (3rd YEAR) OF THE FULLTIME DIPLOMA COURSE IN ENGINEERING & TECHNOLOGY.

**WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION**

**TEACHING AND EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES**

**COURSE NAME:** LEATHER GOODS TECHNOLOGY

**SEMESTER:** SIXTH

**BRANCH CODE:** LGT

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<th>PERIODS</th>
<th>EVALUATION SCHEME</th>
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**STUDENT CONTACT HOURS PER WEEK:** 33 HRS.

**THEORY & PRACTICAL PERIOD OF 60 MINUTES EACH.**

L-LECTURE; TU- TUTORIALS; PR-PRACTICAL; TW- TERM WORK; TA-TEACHERS ASSESSMENT; CT- CLASS TEST; ESE- END OF SEMESTER.
INDUSTRIAL MANAGEMENT AND LEATHER GOODS MARKETING

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<td>17 Weeks</td>
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<td>2nd Semester</td>
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<td>1 Tutorial</td>
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OBJECTIVE
1. The knowledge of this subject is required of all diploma holders who wish to choose industry/field as this career. This course is designed to develop understanding of various functions of management, role workers and engineers and providing knowledge about safety and labor, industrial laws and management in different areas.
2. To provide knowledge about business discipline which focuses on the practical application of marketing techniques and the management of a firm’s marketing resources and activities.

EXAMINATION SCHEME

Internal Assessment - 30 marks and End of Semester (ESE) - 70 marks.
Distribution of Internal Assessment marks:
Teacher’s Assessment (TA) - 10 marks; Class Test (CT) - 20 marks.

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DETAIL COURSE CONTENT

• END OF SEMESTER

INDUSTRIAL MANAGEMENT

A. INTRODUCTION TO MANAGEMENT SCIENCE

B. ORGANISATIONAL BEHAVIOR

C. HUMAN RESOURCE MANAGEMENT

D. MATERIAL MANAGEMENT
   Material Management-Concept and Definition-Function-Purchase-Store-Inventory Control-ABC Analysis-VED Analysis.
E. INTRODUCTION TO INDUSTRIAL ENGINEERING (Basic Idea), PRINCIPLES OF SHOP FLOOR SUPERVISION WITH EMPHASIS ON 5S, SAFETY AND MOTIVATION.

LEATHER GOODS MARKETING

A. Introduction to Leather Goods Marketing.

B. Understanding the Marketing Mix (Product, Price, Place & Promotion) - specific consequences of Leather Goods Marketing.

C. MARKETING ENVIRONMENT
   Scope of Marketing Leather Goods in rural market, in cities, in different regions, in different countries.

D. SEGMENTATION OF MARKET AND TARGET SETTING

E. TRENDS ESTIMATION AND STRATEGY SETTING
   Ability to read trend of Leather Goods in respect of Fashion, Style and Economy and Setting Strategy accordingly.

F. MARKETING TECHNIQUES
   Through shops (own and others), stall, locally, regionally, nationally, internationally, wholesalers, traders, popular brands, big house, Govt. initiatives (State and Council), export agents, and direct export buyers.

G. ADVERTISING MANAGEMENT
   Media selection for Advertising campaign.

H. SALES PROMOTION
   Importance - tools & techniques of sales promotion - Organizing sales Promotion campaign.

• TEXT BOOKS

ENTREPRENUERSHIP DEVOLOPMENT, PROFESSIONAL VALUES AND ETHICS

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<td>17 Weeks</td>
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OBJECTIVE
1. To develop and strengthen entrepreneurial quality among the participants.
2. To analyze environmental set up relating to small industry or need for achievement.
3. Term Work: The included objective aimed to provide an opportunity for the students to apply their classroom knowledge, develop their skill and clarify their career plans.
EXAMINATION SCHEME

Internal Assessment - 30 marks; End of Semester (ESE) - 70 marks and Term Work – 25 marks.
Distribution of Internal Assessment marks:
Teacher’s Assessment (TA) - 10 marks; Class Test (CT) - 20 marks.
Term Work - 25 marks: Assessment of 25 marks shall be held throughout the semester based on entire syllabus.

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DETAIL COURSE CONTENT

• END OF SEMESTER

ENTREPRENEURSHIP DEVELOPMENT

A. INTRODUCTION TO ENTREPRENEURSHIP
   Concept of Entrepreneurship, early career dilemmas of an Entrepreneur, essential qualities of entrepreneur, entrepreneurship as a style management, entrepreneurial venture and the entrepreneurial organization.

B. CREATIVITY AND INNOVATION
   Exercise on creativity, Value analysis and innovation and Entrepreneurship, modules of Innovation.

C. CHOOSING A DIRECTION
   Opportunity recognition and entry strategies, New product franchising, Partial momentum, Sponsorships and acquisition,

D. BUSINESS PLANNING PROCESS
   Business Law- how to incorporate a company- Memorandum of Association, Article of Association, Certificate of Incorporation, Object Clause, Launching an Enterprise.

E. ENTREPRENEURSHIP DEVELOPMENT AND ROLE OF GOVERNMENT
   Role of Central Government (MSME) and State Government in promoting Entrepreneurship, role of agencies like SIDBI, RRB, Co-operative Banks, NGOs, Microfinance in the Entrepreneurship Development.
PROFESSIONAL VALUES AND ETHICS


**TERM WORK**

1. Students have to make Individual Project Report for their Business.

**TEXT BOOKS**


**FUNDAMENTALS OF SAFETY LEATHER GOODS**

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<td>2nd Semester</td>
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**OBJECTIVE**

1. To provide the participants a basic idea about safety leather items like gloves and apron.

**EXAMINATION SCHEME**

Internal Assessment - 15 marks and End of Semester (ESE) - 35 marks.
Distribution of Internal Assessment marks:
Teacher’s Assessment (TA) - 5 marks; Class Test (CT) - 10 marks.

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<td>5 10 15</td>
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DETAIL COURSE CONTENT

• END OF SEMESTER

A. GLOVE

Introduction, History, Classification, Materials Specification, Discussion on glove leather, Making of glove, Physical and Chemical testing of glove leather as well as finished product, Types of machines used in glove manufacturing, Types of threads used, Types of seam.

B. APRON

Introduction, History, Material Specification, Discussion on leather used for apron, Making of apron, Physical and chemical testing of leather used for apron, Machines used for making of apron.

TEXT BOOKS


ELECTIVE - II

A. FOOTWEAR TECHNOLOGY – II

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<th>Full Marks</th>
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<td>17 Weeks</td>
<td>2 Lecture, 4 Practical</td>
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<td>2nd Semester</td>
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OBJECTIVE

1. To provide knowledge about footwear designing and manufacturing.
2. To provide brief knowledge different types of footwear construction involved in footwear making.

EXAMINATION SCHEME

Internal Assessment - 15 marks; End of Semester (ESE) - 35 marks and Practical - 50 marks.
Distribution of Internal Assessment marks:
Teacher’s Assessment (TA) - 5 marks; Class Test (CT) - 10 marks.
Practical-50 marks
Internal Assessment - 25 marks.
Distribution of Internal Assessment marks:
Practical Examination (Designing and Job Performed) -10 marks; Periodic Assignment (Designing and Job Performed) - 10 marks; Practical Note Book- 5 marks;
External Assessment – 25 marks.
Distribution of External Assessment marks:
Practical Examination (Designing and Job Performed) - 15 marks; Viva-voce - 10 marks.
DETAIL COURSE CONTENT

• END OF SEMESTER

A. FOOTWEAR CONSTRUCTIONS
Sequential operations of
   g. Moccasin Construction h. DVP and DIP Construction
   i. Moulded Construction (Rubber/ PVC/PU/EVA).

B. MATERIAL AND QUALITY REQUIREMENTS FOR DIFFERENT FOOTWEAR COMPONENTS
   a. Insoles   b. Stiffeners   c. Soles
   d. Toe-Puffs   e. Heels   f. Shanks.

C. COSTING AND QUALITY CONTROL

COSTING
Definition, Objectives, Function, Costing of a shoe, Process of costing

QUALITY CONTROL
Objective, Factors of quality, Material Specifications, Material Quality Control,
Method of control, in-Process Quality Control (Old System and New System)

D. PRODUCTION GUIDE

E. MATERIAL SELECTION AND SEQUENCE OPERATION OF MAKING THE FOLLOWING ITEMS
   A. SANDALS (at least two different styles)   B. OXFORD SHOE (with TOE CAP).
   C. CASUAL SHOE.

• PRACTICAL

A. BASE MODEL CONSTRUCTION:
   Construction of base model and sectional patterns of upper and lining for I. SANDALS
   (atleast two types) II. OXFORD (with TOE-CAP) SHOE III. CASUAL SHOE and also preparation of
   bottom components for the above designs.

B. MANUFACTURING TECHNIQUES:
   Making of I. SANDALS II. OXFORD SHOE (TOE-CAP also) III. CASUAL SHOE.
TEXT BOOKS
1. “Comprehensive Footwear Technology” by Somenath Ganguly. ILTA, Kolkata Publication.

ELECTIVE - II
B. LEATHER TECHNOLOGY – II

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<td>17 Weeks</td>
<td>2 Lecture 4 Practical</td>
<td>100 [50+50]</td>
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OBJECTIVE
1. To impart knowledge to the students about the different principles involved in post tanning operations and finishing.

EXAMINATION SCHEME

Internal Assessment - 15 marks; End of Semester (ESE) - 35 marks and Practical - 50 marks.

Distribution of Internal Assessment marks:
Teacher’s Assessment (TA) - 5 marks; Class Test (CT) - 10 marks.
Practical - 50 marks

Internal Assessment - 25 marks.

Distribution of Internal Assessment marks:
Practical Examination -10 marks; Periodic Assignment - 10 marks; Practical Note Book- 5 marks;
External Assessment - 25 marks.

Distribution of External Assessment marks:
Practical Examination – 15 marks; Viva-voce- 10 marks.

DETAIL COURSE CONTENT

END OF SEMESTER

A. POST TANNING OPERATIONS
Post tanning operations (Chemical and Mechanical processes) for Leather making.
Neutralisation, Bleaching, Dyeing, Fatliquoring, Currying, Theory of Leather Drying.

B. FINISHING
Leather Finishing Techniques and various Grain pattern
**PRACTICAL**

**VISITING TANNERIES** - Visiting Tanneries; through study of Practical Procedures to make leather specially in Wet-End Section, Preparing Practical Hand Book.

**TEXT BOOKS**

## DESIGN PROJECT - II

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### OBJECTIVE
1. To provide knowledge about designing and manufacturing of apron; jackets and waist belt.

### EXAMINATION SCHEME

**Practical - 200 marks**

**Internal Assessment - 100 marks.**

Distribution of Internal Assessment marks:

- Practical Examination (Designing and Job Performed) – 40 marks; Periodic Assignment (Designing and Job Performed) - 40 marks; Practical Note Book – 20 (10+10) marks.

**External Assessment - 100 marks.**

Distribution of External Assessment marks:

- Practical Examination (Designing and Job Performed) - 80 (40+40) marks; Viva Voce - 20 (10+10) marks.

### EVALUATION SCHEME

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### DETAIL COURSE CONTENT

**PRACTICAL**

**Part A: DESIGNING**

Development of Base Model; Cutting of component patterns & working patterns (mentioning its measurements) of the following items:
- a. APRON
- b. JACKETS
- c. WAIST BELT
- d. HAND GLOOVES

**Part B: MANUFACTURING TECHNIQUES**

Making of following items mentioning its purpose of use, material selection, lining, tools, fittings & adhesive used.
- a. APRON
- b. JACKETS.
- c. WAIST BELT
- d. HAND GLOOVES
**TEXT BOOKS**


**INDUSTRIAL TRAINING AND PROJECT**

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<td>5 Practical 1 Tutorial</td>
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**OBJECTIVE**

1. Industrial Training refers to work experience that is relevant to professional development.
2. Students should note that industrial training is a necessary component in the development of the practical and professional skill required for an engineer and aid to prospective employee for the future employment.
3. **Term Work:** The included objective aimed to provide an opportunity for the students to apply their classroom knowledge, develop their skill and clarify their career plans.

**EXAMINATION SCHEME**

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<td>INDUSTRIAL TRAINING AND PROJECT</td>
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**DETAIL COURSE CONTENT**

• **PRACTICAL**

Industrial Training for one month (at least) in reputed Leather Goods organization and preparing an individual project report on any topic as guided by CFTC teachers / concerned organization. During examination they have to produce an Industrial Training Report and Seminar Presentation on Individual Project.

• **TERM WORK**

Industrial Training Report and Seminar Presentation on Individual Project.

**VIVA VOCE**

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**OBJECTIVE**

1. To provide the student an opportunity to recapitulate of what he/she had studied in his/her last three years.
EXAMINATION SCHEME

The final Viva-Voce Examination shall take place at the end of the Part-III, Second Semester. It is to be taken by One External and One Internal Examiner. The External Examiner is to be from Industry/Engineering College/ university/ Government Organization and he/she should give credit out of 50 marks; whereas, the Internal Examiner should normally be the Head of the Department and he/she should give credit of 50 marks. In absence of the Head of the Department the senior most Lecturer will act as the Internal Examiner.

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DETAIL COURSE CONTENT

• PRACTICAL

The syllabi of all the theoretical and practical papers taught in the three years of Diploma Examination.