PROPOSED CURRICULAR STRUCTURE FOR PART-II (2ND 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:FOURTH

BRANCH CODE:**LGT**

				PERIO	OS			EVA	LUATIO	LUATION SCHEME				
SL. NO.	SUBJECT	CREDITS	L	TU	PR	INTE	RNAL SO	СНЕМЕ						
									ESE	TW			TOTAL	
						TA	CT	TOTAL			INT	EXT	MARKS	
1.	DEVOLOPMENT OF LIFE	2	1	-	2	-	-	-	-	-	25	25	50	
	SKILLS-II													
2.	PRINCIPLES OF													
	DESIGNING & PATTERN	6	3	-	6	10	20	30	70	-	75	75	250	
	DEVOLOPING	(3+3)												
3.	LEATHER GOODS													
	MANUFACTURING	6	3	-	5	10	20	30	70	-	75	75	250	
	TECHNIQUES	(3+3)												
4.	MATERIAL STUDY	3	3	-	-	10	20	30	70	-	-	-	100	
	(NON-LEATHER)													
5.	MACHINERIES FOR													
	LEATHER GOODS -	3	3	-	-	10	20	30	70	-	-	-	100	
	PART-I													
6.	ELEMENTS OF FASHION	2	2	-	-	5	10	15	35	-	-	-	50	
	FORECASTING													
7.	COMPUTER AIDED													
	DESIGNING FOR													
	LEATHER GOODS	2	-	-	3	-	-	-	-	-	25	25	50	
	TECHNOLOGY 2D -													
	PART- II													
8.	PROFESSIONAL	2	-	2	-	-	-	-	-	-	25	25	50	
	PRACTICE-II													
	TOTAL	26	15	2	16	45	90	135	315	0	225	225	900	

STUDENT CONTACT HOURS PER WEEK: 33 HRS.

THEORY & PRACTICAL PERIOD OF 60 MINUTES EACH.

L-LECTURE; TU-TUTORIALS; PR-PRACTICAL (INT-INTERNAL & EXT-EXTERNAL); TW-TERM WORK;

TA-TEACHERS ASSESSMENT; CT- CLASS TEST; ESE- END SEMESTER EXAMINATION.

DEVOLOPMENT OF LIFE SKILLS-II

Duration : One Semester (16 Hours) Practical Marks: 50			
Teaching	Scheme	Examination Scheme:	
Theory: 0	01 hrs/week	Internal Sessional: 25	
Tutorial:	hrs/week	External Sessional: 25	
Practical:	02 hrs/week		
UNITS	CONTENTS		HOURS
Unit-1	Interpersonal Relation Importance, Interpersonal conflicts, Resolution of conflic Interpersonal Skills- Communication and conversational (Personal Skills).		5
Unit-2	Problem Solving I) Steps in Problem Solving (Who? What? Where? Whouch?) 1. Identify, understand and clarify the problem. 2. Information gathering related to problem. 3. Evaluate the evidence 4. Consider feasible options and their implications. 5. Choose and implement the best alternative 6. Review. II) Problem Solving Technique 1. Trial and Error. 2. Brain Storming. 3. Thinking outside the Box	nen? Why? How? How	8
Unit-3	Presentation Skills Concept, Purpose of effective presentation. Components of Effective Presentations: Understanding the Topic, Selecting the Right Information, Organizing the process interestingly, Good attractive beginning, Summarizing and concluding, adding Impact to the Ending, Use of audio-visual aids- OHP, LCD projector, Whit H Non-verbal Communication: Posture, gesture, Eye-contact and facial expression, Voice and Language- Volume, Pitch, inflection, Speed, p. Articulation, Language Handling questions- respond, Answer, Check, Encourage Evaluating the presentation- Before the presentation, D presentation	ause, Pronunciation. Return to Presentation	8

	TOTAL	48
Unit-7	Memos, E-mails, Netiquettes, Business correspondence- Letter of enquiry, letter of Placing Orders, Letter of Complaint	6
	Formal Written Skills:	
	Aspect of Body Language.	
	E- Physical appearance, F- Chronemics, G- Artifacts.	
Unit-6	Non-verbal-graphic communication Non-verbal codes: A – kinetics, B – Proxemics, C – Haptics, D – Vocalics,	6
	Do's and don'ts for a Successful Group Discussion.	
	Appropriate use of language in group interactions,	
	Group Discussion: Use of Non-verbal behavior in group Discussions,	
Unit-5	don'ts of an interview (both verbal and non-verbal)	10
	Intelligently anticipating possible questions and framing appropriate answers, Do's and	
	Prepare for Interviews:	
	Job Interviews	
	write Job Application Letters- in response to advertisements and self-applications	
	write covering letters to accompany CVs,	
Unit-4	write efficacious CVs,	5
	Identifying different sources announcing job vacancies, Skim, scan and read advertisements in detail,	
	Looking for a job	

	SESSIONAL ACTIVITIES
Unit-1	Case Studies:
	1. from books
Interpersonal	2. from real life situations
Relation	3. from student's experiences
	Group discussions on the above and step by step write of any one or more of these in the sessional copies.
Unit-II	Case Studies:
	1. from books
Problem	2. from real life situations
Solving	3. from student's experiences
	Group discussions on the above and step by step write of any one or more of these in the sessional
	copies
Unit-IV	Write an effective CV and covering letter for it.
Looking	Write a job Application letter in response to an advertisement and a self Application Letter for a job
for a Job	
Unit-V	Write down the anticipated possible question for personal interview (HR) along with their
Job	appropriate responses.
Interviews	Face mock interviews: The co-operation of HR personnel's of industries may be sought if possible.
and	Videos of Mock group Discussions and interviews may be shown.
Group	
Discussions	

Unit-VI	Write a memo,
Formal	Write an effective official e-mail,
Written	write a letter of enquiry, letter of placing order
Skills:	

PRINCIPLES OF DESIGNING AND PATTERN DEVOLOPING

Subject Code	Course offered in	Course Duration	Contact Period Per Week	Full Marks
	2 nd Year 2 nd Semester	17 Weeks	3 Lecture 6 Practical	250 [100+150]

OBJECTIVE

- 1. To provide the participants with a general awareness of fashion and the ability to express this in a graphical format
- 2. To impart the necessary craft ability required for the production of model patterns.
- 3. To develop the ability to control line and production.
- 4. **Practical:** To provide the participants with the knowledge and to impart the skills and techniques necessary for leather goods designing and pattern developing.

EXAMINATION SCHEME

Internal Assessment - 30 marks; End Semester Examination (ESE) - 70 marks and Practical - 150 marks.

Distribution of Internal Assessment marks:

Teacher's Assessment (TA) - 10 marks; Class Test (CT) - 20 marks.

Practical-150 marks

Internal Assessment - 75 marks.

Distribution of Internal Assessment marks:

Practical Examination (Designing and Pattern Developing) - 30 marks; Periodic Assignment (Designing and Pattern Developing) - 30 marks; Practical Note Book - 15 marks.

External Assessment - 75 marks.

Distribution of External Assessment marks:

Practical Examination (Designing and Pattern Developing) - 50 marks; Viva-voce - 25 marks.

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2.	PRINCIPLES OF												
	DESIGNING AND	6	3	-	6	10	20	30	70	-	150	250	
	PATTERN DEVOLOPING	(3+3)											

DETAIL COURSE CONTENT

• END SEMESTER EXAMINATION

A. DECORATIVE ITEMS DESIGNING

Decorative accessories fitting, Decorative plating, Decorative stitching, Making of decorative item with pattern making.

B. PATTERN MAKING

Waist belt (Gent's and ladies); Watch strap (Gent's and Ladies); and Pasted items.

C. MATERIAL SELECTION, TOOLS USED AND SEQUENCE OPERATION OF THE FOLLOWING ITEMS

a. Wallet b. Purse c. Gents Pouch d. Tiffin Bag e. Office Bag f. Ladies Bag

g. School Bag h. Traveling Bag i. Watch Strap j. Waist Belt.

• PRACTICAL

PATTERN TECHNOLOGY

Introduction; Development of Base Model from Sample;

Pattern developing of the following items: (At least of two different styles each).

a. Wallet b. Purse c. Gents Pouch d. Tiffin Bag e. Watch Strap.

TEXT BOOKS:

1. "Making of Leather Handbags and other Stylish Accessories" by *Ellen Goldstein-Lynch*. Quarry Books (October 1, 2004).

2. Leather Work - "A Manual of Techniques" by Geoffrey West. Crowood Press. New Edition (March 01, 2005).

LEATHER GOODS MANUFACTURING TECHNIQUES

Subject Code	Course offered in	Course Duration	Contact Period	Full Marks
			Per Week	
	2 nd Year	17 Weeks	3 Lecture	250
	2 nd Semester		5 Practical	[100+150]

OBJECTIVE

- 1. To make the students familiar with different techniques used for making of leather goods.
- 2. **Practical:** To learn all the operations of the following leather goods making manually and mechanically.

EXAMINATION SCHEME

Internal Assessment - 30 marks; End Semester Examination (ESE) - 70 marks and Practical - 150 marks.

Distribution of Internal Assessment marks:

Teacher's Assessment (TA) - 10 marks; Class Test (CT) - 20 marks.

Practical-150 marks

Internal Assessment - 75 marks.

Distribution of Internal Assessment marks:

Practical Examination (Job Performed) - 30 marks; Periodic Assignment (Job Performed) - 30 marks;

Viva-voce - 15 marks.

External Assessment - 75 marks.

Distribution of External Assessment marks:

Practical Examination (Job Performed) - 50 marks; Viva-voce -25 marks.

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3.	LEATHER GOODS MANUFACTURING TECHNIQUES	6 (3+3)	3	-	5	10	20	30	70	-	150	250

DETAIL COURSE CONTENT

• END OF SEMESTER

A. COMPONENT PREPARATION

- --- Gusset preparation.
- --- Pocket preparation.
- --- Strap & Handle preparation.

B. STITCHING AND JOINING

- --- Different types of Stitches.
- --- Machine and hand tools preparation during stitching.
- --- Different types of Seam.
- --- Decorative Stitches.

C. SEQUENCE OF FABRICATION

- --- Reinforcement attachment.
- --- Lining attachment.
- --- Component preparation.
- --- Accessories fittings.
- --- Component assembling.
- --- Final stitching.
- --- Finishing.

D. TYPES OF CONSTRUCTION

- --- Stitched Construction: Introduction; Process details, Construction process with different types of edge treatment like raw edged, turned edge, piping edge etc.
- --- Pasted Construction: Introduction; Process details; Box work, Built up.
- --- Moulded Construction: Introduction; Process details; Moulded gusset making; Other moulded construction.

E. MANUFACTURING OF SHANTINEKETAN LEATHER GOODS

---History-Classification-Material for leather goods making: Type of leather used and chemicals- Decorative dyes and its manufacturing—Embossing--- Dyeing and Finishing of components--Stitching: Hand stitching & Machine stitching.

• PRACTICAL

MANUFACTURING TECHNIQUES

Practicing the manufacturing of the following items:

a. Wallet b. Purse c. Gents Pouch d. Tiffin Bag e. Watch Strap.

TEXT BOOKS:

- 1. The Leather Working Handbook "A Practical Illustrated Source Book of Techniques and Projects" by *Valerie Micheal*. Cassell (Aug 01, 2006).
- 2. Leather Work "A Manual of Techniques" by Geoffrey West. Crowood Press. New Edition (March 01, 2005).

MATERIAL STUDY (NON - LEATHER)

Subject Code	Course offered in	Course Duration	Contact Period	Full Marks
			Per Week	
	2 nd Year	17 Weeks	3 Lecture	100
	2 nd Semester			

OBJECTIVE

1. To make the students aware of leather substitutes for making various items where leather-like finish is required but the actual material is cost-prohibitive.

EXAMINATION SCHEME

Internal Assessment - 30 marks; End Semester Examination (ESE) - 70 marks.

Distribution of Internal Assessment marks:

Teacher's Assessment (TA) - 10 marks; Class Test (CT) - 20 marks.

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4.	MATERIAL STUDY (NON-LEATHER)	3	3	-	-	10	20	30	70	-	ı	100	

DETAIL COURSE CONTENT

• END SEMESTER EXAMINATION

A. NON LEATHER MATERIALS

- --- Artificial Leathers.
- --- Leather Boards.
- --- Cellulose Board.
- --- Blended Board.

B. FABRICS

- --- Introduction,
- --- Fibers- its classification;
- --- Classification of Fabrics;
- --- Warp, Weft, Selvedge, loom movement in weaving;
- --- Basic Woven Designs- Plain weave, Twill weave, Drill weave, Satin Weave.

C. COATED FABRICS

- --- Introduction,
- --- Classifications of coated fabrics along with their physical and chemical properties;
- --- Production process of Coated fabrics;
- --- Applications in Leather Goods industry.

D. RUBBER

- --- Introduction and Origin;
- --- Use of different rubber products [Natural rubber, Solid rubber, MCR, Plantation Crepe; Resin rubber, Buna-N, Silicone rubber, Foam rubber, Buna-N];
- --- Composition of NR and its primary processing.

- --- Basic chemistry of vulcanization, compounding of rubber, different ingredients use in rubber compounding;
- --- Manufacturing process of TPR, Crepe Rubber [preparation, compounding, shaping, Vulcanization]

E. POLYMER

--- Introduction, History, Classification of polymer, uses of different polymeric materials, Polymerization, Polymerization Technique[Addition, Condensation, Co-polymerization) Preparation and uses of different polymer like PVC, PU, EVA, PVA.

F. JUTE FABRICS

--- Introduction and application of Jute fabrics.

TEXT BOOKS

- 1. "Comprehensive Footwear Technology" by Somnath Ganguly. ILTA, Kolkata Publications.
- 2. "Industrial Chemistry" by B.K. Sharma. Goel Publishing House, Meerut.

MACHINERIES FOR LEATHER GOODS - PART- I

Subject Code	Course offered in	Course Duration	Contact Period Per Week	Full Marks
	2 nd Year 2 nd Semester	17 Weeks	3 Lecture	100

OBJECTIVE

- 1. To understand the basic theory underlying machine learning.
- 2. To make the students acquainted with different machine operations and also with its various parts.
- 3. To be able to formulate machine learning problems corresponding to different applications.

EXAMINATION SCHEME

Internal Assessment - 30 marks and End Semester Examination (ESE) Marks - 70 marks. Distribution of Internal Assessment marks:

Teacher's Assessment (TA) - 10 marks; Class Test (CT) - 20 marks.

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5.	MACHINERIES FOR LEATHER GOODS - PART-I	3	3	-	-	10	20	30	70	1	ı	100						

DETAIL COURSE CONTENT

• END SEMESTER EXAMINATION

A. STITCHING MACHINE

Parts of Stitching Machine and their functions, Types of Stitching: Flat Bed, Post Bed, Cylinder Bed, Variable Stitch, Length Flat Machine, Under Edge Trimmer, Twine Needle Flat Machine, Zig-Zag machine. Material Transportation System in Stitching Machines (Drop Feed, Compound Feed, Unison Feed, Step Feed).

Needle – Definition, Parts of Needle and their role, Needle finishes, Needle systems, Needle Size, Classification of Needle on basis of Needle Point, Cutting Point [P, S, LR, PLR, PCR, D, D1, VR]; Number of Needles; Direction of Needle-bar movement.

Computerized Stitching Machine. Introduction and Operation.

B. MACHINERIES FOR CLICKING

Types of Clicking (Manual, Machine), Mechanical clicking press, Hydraulic clicking press, Hydraulic Clicking Press. Other Modern Clicking Machine [Fixed arm, Traveling head, Large beam , Flash Cutter etc], Comparison of Manual & Machine clicking, Some features of the Clicking Machine [voltage, oil tank, swinging arm, swing arm hand wheel, operation of the swing arm, cutting operation, hydraulic system, cutting board, day light etc.

Introduction to Die-less cutting system, Operation, and Machine adjustment.

C. MACHINERIES FOR SPLITTING

Function of Splitting Machine, Band knife Splitting Machine, Main features of Splitting Machine [Band knife, Pressure Roller, Feed Roller, Knife Adjustment Mechanism, Feed Roller, Adjustment Mechanism, Grinding wheel, Brush Roller etc].

D. MACHINERIES FOR SKIVING

Function of skiving Machine, Type of Skiving [Parallel, taper, center, Double edge, Double Groove], Type of Skiving Methods [Manual & Machine], Machine skiving [Single, Triple, Matrix], some features of skiving Machine [Bell Knife, Feed Roller, Knife Adjustment Mechanism, Feed Roller Adjustment Mechanism, Grinding Stone, Treadle, Scrap Suction Device etc], Comparison of Manual & Machine skiving, Setting skiving machine. Introduction to Automatic Skiving Machine, machine Adjustment, Operation.

- E. STRAP CUTTING MACHINE.
- F. STAMPING MACHINE.
- G. THERMO FOLDING MACHINE.
- H. CEMENTING MACHINE.
- I. PERFORATING MACHINE.

•TEXT BOOKS

- 1. "Apparel Manufacturing Analysis" by *Solinger Jacob*. Columbia Bobin Media, 1988.
- 2. "The Technology of Cloth Manufacture" by *Harold Carr and Barbara Lathon*. Blackwell Sciences, 1996.
- 3. "Comprehensive Footwear Technology" by Somenath Ganguly. ILTA Kolkata Publications.

4. "Introduction to the Modern Footwear Technology" by *B. Venkatappaiah*. CLRI Publications.

ELEMENTS OF FASHION FORECASTING

Subject Code	Course offered in	Course Duration	Contact Period Per Week	Full Marks
	2 nd Year 2 nd Semester	17 Weeks	2 Lecture	50

OBJECTIVE

- 1. To impart knowledge to the participants for prediction of future trends and the consumer groups who will accept them.
- 2. To research and analyze current fashion trends.

EXAMINATION SCHEME

Internal Assessment - 15 marks and End Semester Examination (ESE) - 35 marks.

Distribution of Internal Assessment marks:

Teacher's Assessment (TA) - 5 marks; Class Test (CT) - 10 marks.

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6.	ELEMENTS OF											
	FASHION FORECASTING	2	2	-	-	5	10	15	35	-	-	50

DETAIL COURSE CONTENT

• END SEMESTER EXAMINATION

A. INTRODUCTION TO FASHION

Definition and why it is needed, terminologies, fashion cycle, consumer identification with fashion cycles, environment of fashion, theories of fashion adoption.

B. INTRODUCTION TO DESIGN

Design, concept of design, pattern types: Fabric design- natural, stylized, geometric, historic and abstract, design forecasting and trend estimation.

C. FASHION FORECASTING PROCESS

Forecasting of color, fabrics, and trends using various resources for fashion forecasting.

D. FASHION STYLING

Elements of Styling- accessing style and trend, achieve visual balance, making trends, working with color, color combination, color wheel, color characteristics, simultaneous contrast, lights and color, trend estimation, creating fashion.

E. HEURISTICS

Definition and its role.

F. RESEARCH PROCESS IN FORECASTING

Trend, color, fabrics, texture, design, market and seasons research.

G. FASHION FORECASTING FOR LEATHER GOODS.

H. TREND PRESENTATION

•TEXT BOOKS

- 1. "Visual Design & Dress" by *Marian L Davis*. Prentice Hall, New Jersy, 1996 (Third edition).
- 2. "Fashion Forecasting" by Evelyn L. Brannon. Atlantic Publishing House.

•MAGAZINES

- 1. "Arpel"- An Italian Magazine relating the Modern Trends of Bags and Belts.
- 2. "Concept"- A Magazine for Estimation of Modern Color Trends.

COMPUTER AIDED DESIGNING FOR LEATHER GOODS TECHNOLOGY 2D - PART - II

Subject Code	Course offered in	Course Duration	Contact Period	Full Marks
			Per Week	
	2 nd Year	17 Weeks	3 Practical	50
	2 nd Semester			

OBJECTIVE

- 1. At the end of the program the students will be able to understand the fundamentals of Photoshop & can able to retouch & repair work with multiple layers, Slice & clone, design basic web templates, and create animations.
- 2. At the end of the program the students will be able to understand the fundamentals of Corel draw & can able to create business cards, pamphlets, banners, news papers, books.

EXAMINATION SCHEME

Practical-50 marks

Internal Assessment - 25 marks.

Distribution of Internal Assessment marks:

Drawing sheets - 20 marks; Lab Note Book - 5 marks.

External assessment of 25 marks shall be held at the end of the semester on the entire syllabus. One job per student from any one of the jobs done is to be performed. Job is to be set by lottery system.

Distribution of External Assessment marks:

Drawing sheets - 10 marks; Spot job - 10; Viva voce - 5 marks.

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7.	COMPUTER AIDED DESIGNING FOR LEATHER GOODS TECHNOLOGY 2D - PART- II	2	-	-	3	-	-	-	-	-	50	50														

DETAIL COURSE CONTENT

• PRACTICAL

A. WORKING WITH PHOTOSHOP

UNIT 1

Photoshop-History & introduction, the file menu, the tools, Drawing lines & shapes.

UNIT 2

Inserting picture and shapes, filling colors, text effects, working with layers, filters.

UNIT 3

Creating design patterns, Photoshop presentations -static & dynamic presentation.

B. DESIGNING USING COREL DRAW

UNIT 1

Corel draw -An overview, menus and tools.

UNIT 2

Drawing -lines, shapes .inserting-pictures, objects, tables, templates.

UNIT 3

Adding special effects, Exporting drawings, outlining & filling objects, inserting symbols & Clip arts.

UNIT 4

Working in Corel draw presentation –adjusting the position, resizing, positioning, merging, color shades & shadows .working with advanced effects, special interactive effects.

PRACTICE WITH COMPLETE LEATHER GOODS DRAWING (2D)

Each student is required to prepare leather goods Creative Design and a Logo of Company with their creative idea with the help of Photoshop and Corel Draw and build range.

INTRODUCTION TO 3D LEATHER GOODS DESIGNING.

•TEXT BOOKS:

1. M.Sc Software Engineering by G. Dalin. HSI PUBLICATIONS.

PROFESSIONAL PRACTICE - II

Subject Code	Course offered in	Course Duration	Contact Period	Full Marks
			Per Week	
	2 nd Year	17 Weeks	2 Tutorial	50
	2 nd Semester			

OBJECTIVE

- 1. To acquire information from different source.
- 2. To prepare notes from given topic.
- 3. To present given topic in seminar.
- 4. To interact with peers to share thoughts.
- 5. To prepare a report on industrial visit, expert lecture.

EXAMINATION SCHEME

Practical-50 marks

Internal Assessment - 25 marks.

Distribution of Internal Assessment marks:

Internal Assignment - 10 marks; Seminar Presentation - 10 marks; Industry Visit Report - 5 marks.

External Assessment - 25 marks.

Distribution of Internal Assessment marks:

Seminar Presentation - 15 marks; Viva Voce - 10 marks.

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8.	PROFESSIONAL PRACTICE-II	2	-	2	-	-	1	-	-	-	25	25	50

DETAIL COURSE CONTENT

• PRACTICAL

Module - I

A.	Identification of different Non-Leather Materials.
В.	Identification of Fabrics.
C.	Identification of different types of Polymeric materials.

Module - II

Α.	Hook shuttle assembly and needle bar section in lock stitch machine.
В.	Mechanisms of over lock and give the threading procedures for three thread machines.
C.	Mechanisms of over lock and give the threading procedures for five thread machines.
D.	Hook shuttle assembly and needle bar sections in flat lock machines
E.	Button Hole and Fixing machines- stitch mechanism, stitch length adjustment – gears
F.	Double needle Lock Stitch machine – mechanism, stitch formation.
G.	Mechanism of feed off the arm stitch machine
H.	Mechanism of Clicking Machine and changing different parameter
I.	Mechanism of Splitting Machine and changing different parameter
J.	Mechanism of Skiving Machine and changing different parameter
K.	Cutting and sharpening mechanisms in Strap cutting machine
L.	Operation and adjusting controlling parameter of Stamping, Thermo folding, Cementing, Perforating
	machine

Module - III

A.	INDUSTRY VISIT -Visit to Leather Goods Manufacturing Unit
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