DIPLOMA IN FOOTWEAR TECHNOLOGY

CURRICULAR STRUCTURE

AND

SYLLABUS OF PART - II

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION "KOLKATA KARIGORI BHAVAN" 110 S N BANERJEE ROAD (2ND FLOOR), KOLKATA - 700 013

CURRICULAR STRUCTURE FOR PART-II (2ND YEAR) OF THE FULL TIME DIPLOMA COURSE IN FOOTWEAR TECHNOLOGY

WEST BENGAL STATE COUNCIL OF TECHNICAL EDUCATION

TEACHING & EXAMINATION SCHEME FOR DIPLOMA IN ENGINEERING COURSES

BRANCH: DIPLOMA IN FOOTWEAR TECHNOLOGY SEMESTER: FOURT													
SR.			I	PERIO	OS			EVALUATI	ON SCH	IEME			
						INTER	NAL SCHE	EME				MARKS	
NO		CREDIT				T	C					TOTAL	
	SUBJECT	S	L	TU	PR	A	T	TOTAL	ESE	PR	TW		
1	Development of life skill - II	2	1	-	2	-	-	-	-	50	-	50	
2	FOOTWEAR MACHINERY—	2	2	-	-	10	20	30	70	-	-	100	
	Part-i												
3	METHOD OF FOOTWEAR	6	3		6	10	20	30	70	150		250	
	Manufacture Part-II												
4	PRINCIPLES OF SHOE	6	3		6	10	20	30	70	150		250	
	DESIGNING & PATTERN												
	CUTTING II												
5	FOOTWEAR MATERIAL TESTING	2	1		2	5	10	15	35	50	-	100	
6	FOOTWEAR MERCHANDISING	2	1	1		5	10	15	35			50	
7	FOOTWEAR CAD 2D PART-I	2			3					50		50	
8	PROFESSIONAL PRACTICE -II	2		2							50	50	
	TOTAL	24	11	3	19	40	80	120	280	450	50	900	

STUDENT CONTACT HOURS PER WEEK: 33Hrs.

Theory and Practical Period of 60 Minutes each.

L – Lecturer, TU – TERM WORK, PR – Practical, TA – Teachers' Assessment, CT – Class Test, ESE – End Semester Exam., TW – Term Work.

Duration. O	ne Semester (16 hours)	Maximum Marks: 50)
Teaching Sc	heme	Examination Scheme:	
Theory: 0	1 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 cor interpersonal skills - communication and conversation Skills (People Skills) Problem Solving		5
Unit - 2 3	 Steps in Problem Solving (Who? What? Where? W Identify, understand and clarify the problem Information gathering related to problem Evaluate the evidence Consider feasible options and their implications Choose and implement the best alternative Review Problem Solving Technique Trial and Error, 2. Brain Storming 3. Thinking outs 		8
Unit - 3	Presentation Skills Concept, Purpose of effective presentations, Components of Effective Presentations: understanding the topic, selecting the right information, organising the process interestingly, Good attractive beginning, Summarising and concluding, adding impact to the ending, Use of audio-visual aids - OHP, LCD projector, White Non-verbal communication: Posture, Gestures, Eye-contact and facial expression, Voice and Language - Volume, pitch, Inflection, Speed Articulation, Language Handling questions - Respond, Answer, Check, Encounterpresentation Evaluating the presentation - Before the presentation the presentation	, Pause, Pronunciation, rage, Return to presentation	8

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

	Sessional Activities
Unit - 1	Case Studies:
	1. from books
Interperson	2. from real life situations
al	3. from students' experiences
Relation	Group discussions on the above and step by step write of any one or more of these in the sessional
	copies
	Case Studies:
	1. from books
Unit - II	2. from real life situations
	3. from students' experiences
Problem	Group discussions on the above and step by step write of any one or more of these in the sessional
Solving	copies
Unit - III	Prepare a Presentation (with the help of a Powerpoint) on a Particular topic. The students may
	refer to the Sessional activity (sl. No. 8) of the Computer Fundamental syllabus of Semester 1.
Presentatio	For engineering subject-oriented technical topics the co-operation of a subject teacher may be
n Skills	sought. Attach handout of PPT in the sessional copy
Unit - IV	Write an effective CV and covering letter for it.
Looking for	Write a Job Application letter in reponse to an advertisement and a Self Application Letter for a job.
a job	

Unit - V	Write down the anticipated possible questions for personal interview (HR) along with their
Job	appropriate responses
Interviews	Face mock interviews. The co-operation of HR personnels of industries may be sought if possible
& Group	Videos of Mock Group Discussions and Interviews may be shown
Discussions	
Unit - 7	write a memo,
Formal	write an effective official e-mail,
Written	write a letter of enquiry, letter of placing orders, letter of complaint
Skills	

FOOTWEAR MACHINERY- PART - I

Subject Code Course offered in Duration 2 lecture contact periods Full Marks FWT / 4 / T3 / FM1 2nd Year 2nd Semester 17 weeks per week 100

EXAMINATION SCHEME

Internal assessment marks 30 and END SEMESTER EXAMINATION MARKS 70 Distribution of Internal assessment marks: Teacher's Assessment 10, Class Test 20,

SR.							EVALUATION SCHEME							
						INTERNAL SCHEME						MARKS		
NO			CREDIT		T		T	C	TOT				TOTAL	
	SUE	BJECT	S	L	U	PR	A	T	AL	ESE	PR	TW		
2	FOOTWEAR	MACHINERY—	2	2		-	10	20	30	70	-		100	
	PART-I													

DETAIL COURSE CONTENT

1. Machineries for Clicking

- -- Types of Clicking (Manual, Machine)
- -- Manual Clicking
- -- Machine clicking
- -- Mechanical clicking press
- -- Hydraulic clicking press
- -- Hydronic Clicking Press
- -- Other Modern Clicking Machine [Fixed arm, Travelling head, Large beam, Flash Cutter etc]
- -- Comparison of Manual & Machine clicking
- -- Some features of the Clicking Machine [voltage, oil tank, swing 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.

2. 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]

3. Machineries for Skiving

- -- Function of skiving Machine
- -- Type of Skiving [Parallel, taper, centre, 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.

4. Strap Cutting Machine

- 5. Stamping Machine
- 6. Thermo-folding Machine

- 7. Cementing Machine
- 8. Perforating Machine

Needle:-

- Definition:
- Parts of Needle and their role:
- Needle Finishes:
- Needle systems;
- Needle Size:
- Classification of Needle on the basis of Needle Point;
- Cutting Point[P, S, LR, PLR, PCR, D, D1, VR];

Number of Needles;

Direction of Needle-bar movements;

Material transportation Systems in Stitching machines (Drop Feed, Compound Feed, Unison Feed,

Step Feed);

Stitching machine Construction;

Parts of Stitching Machine and their functions;

Types of stitching Machines: - Flat Bed, Post Bed, Cylinder Bed, Variable Stitch, Length Flat Machine,

Under Edge Trimmer, Twin Needle flat machine, Zig-Zag Machine;

Computerized Stitching Machine. Introduction and Operation

9. Work station in Cutting & Pre-fitting Section and related machines

TEXT BOOKS:

- 1. Solinger Jacob, "Apparel Manufacturing Analysis", Columbia Boblin Media, 1988.
- 2. Harold Carr and Barbara Lathon, "The Technology of Clothing Manufacture", Blackwell Sciences, 1996.
- 3. Alison Beazley and Terry Bond, "Computer Aided Pattern Design and Product Development", Blackwell Publishing, UK, 2004.
- 1. Somenath Ganguly, 'Comprehensive Footwear Technology' ILTA, Kolkata Publication

METHOD OF FOOTWEAR MANUFACTURE PART- II

Subject Code Course offered in Duration 3 lecture & 6 practical contact Full Marks

FWT / 4 / T4 / MFM2 2nd Year 2nd Semester 17 weeks periods 100+150

per week

OBJECTIVE

To provide the knowledge and impart the skills required to understand the principles and practice of the closing and bottom stock preparation technique.

EXAMINATION SCHEME

Internal assessment marks 30 and END SEMESTER EXAMINATION MARKS 70 Practical Marks 150 Distribution of Internal assessment marks: Teacher's Assessment 10, Class Test 20 Practical Marks:

Internal assessment of 100 marks shall be held throughout the Semester on the entire syllabus.

Distribution of marks: Practical Book –(open type 10+ close type 10); on the spot job – (open type 20+ close type 20); Assignment – (open type 20+ close type 20).

External assessment of 50 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 marks: On the spot job -40; Viva-voce -10.

SR.		CREDIT	PERIODS			EVALUATION SCHEME							
NO	SUBJECT	S	L	T	PR	INTERNAL SCHEME	ESE	PR	TW	MARKS			

						U		T	С	TOT			TOTAL
								A	T	AL			
3	METHOD	OF	FOOTWEAR	6	3		6	10	20	30	70	150	250
	MANUFACT	URE PA	ART-II										

DETAIL COURSE CONTENT

C. Closing technology:

- 1. Definition of Closing;
- 2. Reinforcement:
- 3. Fitting (Flat Fitting, Block Fitting, Holding Together);
- 4. Type of Stitch (Lock, Chain);
- 5. Machine Preparation for Stitching
- 6. Seam, its types[Close Seam(Close Seam Stay, Dog Tail Method), French Seam, Brooklyn Seam, Lapped seam, Butted Seam, Welted Seam, Piped Seam, Open Seam, Bonded Seam, Mocassin seam, Sprung Seam, Welded Seam];
- 7. Decorative Stitches (Fancy Stitching, Cable stitching, Cording, Top Stitching, Pin Tucking, Lacing);
- 8. Subsidiary Stitching (Boxing, Barring);
- 9. Eyeleting, Lacing, Quality Checking;
- 10. Sequence of operations (Closing) -- Oxford, Derby, Men's Chappal, Men's sandals, Children sandal

D. Bottom Stock Preparation:

- 1. Introduction (Stock. Fitting);
- 2. Insole Preparation for Cemented Construction (Press Cutting, Flexing, Seat Bevelling, Shank Recessing, Preparing sand-witch Insole, insole Moulding, Pre- Shanking);
- 3. Insole Covering;
- 4. Contoured Insoles;
- 5. Sole Preparation for Cemented Construction Sole Pre-finishing (Pre-Trimming, Sole Edge Brushing, Spray Edge Inking, Sole Edge Reducing, Sole cleaning);
- 6. Preparation of Stiffner;

Practical A (Close Type):

Making of the following Items:

- a) Derby shoe with Toe cap
- b) Oxford shoe with Brogue
- c) Slip on casual shoe with Mud-gaurd
- d) Girls school shoe

Practical B(Open Type):

Making of the following Items:

- a) Men's chappal- 2 different style
- b) Men's sandals 2 different style
- c) Children sandal 2 different styles

TEXT BOOKS:

1. Somenath Ganguly, 'Comprehensive Footwear Technology' ILTA, Kolkata Publication.

PRINCIPLES OF SHOE DESIGNING & PATTERN CUTTING II

Subject Code Course offered in Duration 3 lecture & 6 practical contact Full Marks
FWT / 4 / T5 / PSDP2 2nd Year 2nd Semester 17 weeks periods 100+150
per week

EXAMINATION SCHEME

Internal assessment marks 30, END SEMESTER EXAMINATION MARKS 70 and Practical Marks 150 Distribution of Internal assessment marks: Teacher's Assessment 10, Class Test 20 Practical Marks:

Internal assessment of 100 marks shall be held throughout the Semester on the entire syllabus. Distribution of marks: Practical Book –(open type 10+ close type 10); on the spot job – (open type 20+ close type 20); Assignment – (open type 20+ close type 20).

External assessment of 50 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 marks: On the spot job -40: Viva-voce -10.

SR.			P	ERIOD	RIODS EVALUATION					ION SCHEME				
						INTERNAL SCHEME						MARKS		
NO		CREDIT		T		T	С	TOT				TOTAL		
	SUBJECT	S	L	U	PR	A	T	AL	ESE	PR	TW			
4	PRINCIPLES OF SHOE	6	3		6	10	20	30	70	150		250		
	DESIGNING & PATTERN													
	CUTTING II													

DETAIL COURSE CONTENT

- 1. Specialised pattern cutting technique:- Springing/deadning techniques for economy, look and fit. One pair tracing to observe material consumption and pattern interlock.
- 2. Drafting Drafting of shoe uppers on last.
- 3. Prototype production:- Production of prototype samples for appraisal and assessment to commercial qualities of suitability and excellence.
- 4. Production Specifications: Specification procedures for use in production, detailing of style, edge treatments, materials and components used, colours, last and constructions. Information and sequence for uppers and bottom stock processes. Stage sample boards,
- 5. Production of bottom stock patterns:
 - Insole of last pattern making and its use in the production of the lasting insole, socks and sole pattern for various constructions such as Cemented, Veldtschoen, Goodyear welted, California Sliplasted, Sandal and Chappal.
- 6. Heel Patten, Sole patterns, Heel cover pattern.
- 7. Fitting test and wearing test:
 - a) Correctness of last
 - b) Correct position of upper designs
 - c) Quality of upper, lining and bottom materials
 - d) Colour fastness of upper and lining materials, etc.

Practical A (Close Type):

Designing of the following:

- a) Derby shoe with Toe cap
- b) Oxford shoe with Broque
- c) Slip on casual shoe with Mud-gaurd
- d) Girls school shoe

Practical B(Open Type):

Designing of the following:

- a) Men's chappal- 2 different style
- b) Men's sandals 2 different style
- c) Children sandal 2 different styles

TEXT BOOKS:

1. Somenath Ganguly, 'Comprehensive Footwear Technology' ILTA, Kolkata Publication.

FOOTWEAR MATERIAL TESTING

Subject Code Course offered in Duration 1 lecture and 2 practical contact Full Marks

FWT / 4 / T6 /FMT 2nd Year 2nd Semester 17 weeks periods 100

per week

EXAMINATION SCHEME

Internal assessment marks 15 and END SEMESTER EXAMINATION MARKS 35, Practical Marks 50 Distribution of Internal assessment marks: Teacher's Assessment 5, Class Test 10, Practical Marks:

Internal assessment of 25 marks shall be held throughout the Semester on the entire syllabus. Distribution of marks: Practical Book -5; on the spot job -10; Assignment -10.

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 marks: On the spot job - 15; Viva-voce - 10.

SR.			P	ERIOD	S	EVALUATION SCHEME								
						INTERNAL SCHEME						MARKS		
NO		CREDIT		T		T	С	TOT				TOTAL		
	SUBJECT	S	L	U	PR	A	T	AL	ESE	PR	TW			
5	FOOTWEAR MATERIAL TESTING	3	1		2	5	10	15	35	50		100		
	II													

DETAIL COURSE CONTENT

- 1. Introduction, Objective of carrying out Physical Testing, Development of Physical Testing Methods, Classification of Physical Testing Methods
- 2. Collection and preparation of Leather samples, sampling position, Conditioning of test pieces, Simple Tools and Apparatus for measuring area, thickness etc of leather, Press and Cutting knives, few thumb tests for leather
- 3. Testing Equipments: Universal Testing Machine, Lastometer, Wrinklemeter, Wet and dry rub fastness tester, Abrasion Tester, Flexometer, Waterproof ness test.
- 4. Test Methods for Leather:
 - Measurement of Tensile Strength
 - Percentage Elongation
 - Tear Strength
 - Tongue Tear Test
 - Grain crack
 - Plasticity and Heat setting
 - Wrinkles along feather line
 - Flexing endurance
 - Water proof ness / Water resistance
 - Rubbing damage
 - Upper flexing
- 5. Test Methods for Total Shoe:
 - Total Shoe Flexing
 - Sole tearing test
- 6. Test Methods for Sole:
 - Sole flexing
 - Sole abrasion

- Sole cracking
- 7. Test Methods for Fabrics:

Threads per inch or centimeter of a fabric, Seam Strength, Martindale Abrasion, Staining

8. Test Methods for Synthetic Coated Fabrics:

Breaking Load, Breaking Extension, Tearing Strength, Load and Distention (Lastometer) Seam Strength / Needle Pull out test, Adhesion of Coated film to Fabrics, Flexing, Abrasion

9. Testing and Quality assessment for Adhesives:

Solid content, Viscosity, Drying Time, Tack, Shelf Life, Pot Life, Peel Strength, Strength of Joint in Shear, Hot Melt Adhesive, Bond Strength.

10. Testing and Quality Assessment for Accessories:

PRACTICAL:

1. Test Methods for Leather:

Tensile Strength, Elongation at Break, Tear Strength, Grain Crack, Flexing Endurance, Determination of Water Vapour Permeability, Water Proofness, Rubbing Damage, Adhesion to Finish Film.

2. Test Methods for Soling Materials:

Hardness- Shore Hardness- Durometer, Abrassion

3. Test Method for Finish on Shoe:

Flex Resistance, Water Resistance, Wet Rub Resistance, Scuffing/ Snag Test, Shape Retention

TEXT BOOKS:

1. S.S. Dutta, 'Physical Testing' ILTA, Kolkata Publication.

FOOTWEAR MERCHANDISING

Subject Code Course Offered in Cour FWT / 4 / S4 /FMe 2ND Year ^{2ND} Semester

Course Duration Weeks Lecture contact periods per week

Full Marks 50

EXAMINATION SCHEME

Internal assessment marks 15 and END SEMESTER EXAMINATION MARKS 35 Distribution of Internal assessment marks: Teacher's Assessment 5. Class Test 10

SR.			P	ERIOD	S			EVALUAT	ION SCI	HEME		
						INTER	RNAL SCH	EME				MARKS
NO		CREDIT		T		T	C	TOT				TOTAL
	SUBJECT	S	L	U	PR	A	T	AL	ESE	PR	TW	
6	FOOTWEAR MERCHANDISING	2	1	1		5	10	15	35			50

DETAIL COURSE CONTENT

Unit - I

Merchandising - Terms Pertaining to Merchandising - Requirements of a Purchase Order - Amendment Sheet - Direct Order - Merchant Order - CM Order - CMT Order - Vendor & Sub-Contractor Evaluation Specifications.

Unit - II

Functions of a Merchandiser - Types of Samples - Sample Quality and Sample Order - Expediting Procedures - Record Maintenance - Approval, Types of Approvals - Check Points for a Proper Approval - Approving Sewing Operations & Various Processes.

Unit - III

Time Management - Production Scheduling - Route Card Format - Accessories

Follow-Up - Various Processes Follow-Up & Practical Check Points.

Pattern Approval - Size Set Approval Procedures - Pre - (Pilot Run Inspection) - Order Execution Procedures.

Unit IV

Fashion Merchandising vs. Retail Merchandising, Job Objectives of Retail Merchandising, Definition of Promotional Merchandising, Visual Merchandising Techniques, Sales Focused Merchandising, Outlet Vs. Retail, SWOT Analysis for Retail

The Advantages of Retail Outlets

TEXT BOOKS:

- 1. Philip Kotler, "Marketing Management", Prentice Hall Inc 1996.
- 2. Ruth E Glock and Grace I. Kunz, "Apparel Manufacturing", Prentice Hall, New Jersey, fourth edition, 2005.

FOOTWEAR CAD 2D PART-I

Subject Code Course offered in Course Duration 3 sessional contact periods Full Marks

FWT / 4 / S4 /FC1 Part II – 2nd Semester 17 weeks per week 50

OBJECTIVE

On satisfactory completion of the course, the students should be in a position to solve two dimensional drafting and design problems by being able to use Footwear CAD commands to make a 2D drawing, make pattern, Edit pattern, add Sole and Insole. They will also be able to plot drawings, nesting and cutting pattern.

COURSE & EXAMINATION SCHEDULE

Internal assessment of 25 marks

Distribution of marks: Lab notebook 5, drawing sheets 20.

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 marks: Drawing sheets – 10: On the spot job – 10: Viva-voce – 5.

SR.			F	PERIODS EVALUATIO						ON SCHEME				
				INTERNAL SCHEME								MARKS		
NO		CREDIT		T		T	C					TOTAL		
	SUBJECT	S	L	U	PR	A	T	TOTAL	ESE	PR	TW			
7	FOOTWEAR CAD 2D PART -I	2			3					50		50		

DETAIL COURSE CONTENT

GETTING STARTED – I 4

Starting AutoCAD – AutoCAD screen components – Starting a drawing: Open drawings, Create drawings (Start from scratch, Use a template & Use a wizard) – Invoking commands in AutoCAD –Drawing lines in AutoCAD – Co-ordinate systems: Absolute co-ordinate system, Relative co-ordinate system – Direct distance method – Saving a drawing: Save & Save As – Closing a drawing – Quitting AutoCAD

GETTING STARTED - II

Introduction to different types tool bar in Footwear Cad, Draw Tools, Designing Tools, Pattern Tools, Grading Tools, Editing Tools and Making Marking and other output Related Tools, Ideas about Geometric Primitives.

8

DIGITISING 12

START DIGITISING, DIGITISING SUBMENU, FUNCTION OF EACH SUBMENU, SPLINE, CORNER, DIGITISING OF LARGE OBJECT, COORDINATES ETC.

DRAWING DESIGNING AND EDITING:

8

Point, Line, ARC, ELLIPSE, elliptical arc, ,Spline, Text, Parallel, Fix Parallel, Variable Parallel, Mirror Translate, Rotate, Fillet, Chamfer, Ideals about Sell and GP and Editing Commands

PATTERN MAKING: 12

CREATE PATTERN, GENERAL ELEMENTS, ATTACH AND DETACH GP, EXCHANGE BOUNDARY, EXCHANGE AXIS, PATTERN PROPERTIES, ATTACH ELEMENT DETACH ELEMENT AND PATTERN EDITING

MARKERS: 8

CREATE MARKERS, NOTCH, DRILL, DECORATION, CARRIER LINE (VISIBLE AND INVISBLE) MODIFYING MARKERS, CONCEPT OF MARKER LIBRARY

REFERENCE BOOKS:

- 'Training Manual', Procam for Dimensions 5.2.
- 'Training Manual', Shoemaster QS 10.4 'Training Manual', Delcam Crispin.
- Mastering AutoCAD 2010 and AutoCAD LT 2010 by George Omura.

PROFESSIONAL PRACTICE -II

Subject Code Course offered in Duration 2 lecture contact periods **Full Marks** FWT / 4 / T2 / PR2 2nd Year 2nd Semester 17 weeks per week 50

OBJECTIVE

- Acquire information from different sources.
- Prepare notes for given topic.
- Present given topic in a seminar.
- Interact with peers to share thoughts.
- Prepare a report on industrial visit, expert lecture.

EXAMINATION SCHEME

Internal assessment marks: 50

Distribution of Internal assessment marks: Visit Report-10, Seminar Presentation 15, Internal Assignment-25

	PERIODS				EVALUATION SCHEME						
				INTERNAL SCHEME						MARKS	
CREDITS	L	TU	PR	TA	CT	TOTAL	ESE	PR	TW	TOTAL	
2		2							50	50	

DETAIL COURSE CONTENT

- 1. Hook shuttle assembly and needle bar section in lock stitch machine.
- 2. Mechanisms of overlock and give the threading procedures for three thread machines.
- 3. Mechanisms of overlock and give the threading procedures for five thread machines.
- 4. Hook shuttle assembly and needle bar sections in flat lock machines.
- 5. Button hole and fixing machines- stitch mechanism, stitch length adjustment gears.
- 6. Double needle lock stitch machine mechanism, stitch formation.
- 7. Mechanism of feed off the arm stitch machine.
- 8. Mechanism of Clicking Machine and changing different parameter.
- **9.** Mechanism of Splitting Machine and changing different parameter.
- 10. Mechanism of Skiving Machine and changing different parameter.
- 11. Cutting and sharpening mechanisms in strap cutting machine.
- 12. Operation and adjusting controlling parameter of Stamping, Thermo Folding, Cementing and Perforating machine.

Visit a Footwear Making Unit and Footwear Upper Making Shop