

4507-MACHINERY & EQUIPMENT

Teaching Schedule Per Week			Progressive Assessment		Examination Schedule (Marks)				
Lectures	Practical	Credit			Theory		Practical Ex.		Total
3	1	4	-	25	3 Hrs	100	-	125	
Pre-requisite		Source	Semester	Theory	Test	Total	TW	PR	Gr Total
NIL		GAT		75	25	100	25	-	125

Rationale - The course gives knowledge on machinery and equipment used in the garment industry.

COURSE CONTENTS		Hrs	Mks
1. SEWING MACHINE		10	20
Understanding the basic sewing machines and its parts, different types of machines, attachments, invention and development, organizing a sewing area. Problems and rectification.			
2. INDUSTRIAL SEWING MACHINE		14	40
Single needle lock st and double needle lock st machine, chain st- single needle, double needle and multi thread, overlock- 2 thread, 3,4 and 5 thread, flat bed, cylinder bed and post bed machines, feed up of the arm, blind stitch and elastic attaching machines. Flat lock machine. Fusible machines - hand iron, by steam and by specialized machines, different types of fusing, attachments, bar tack, buttonhole and button; stitch; machine lace, sewers, etc.			
3. CUTTING MACHINES		8	15
Bend knife, straight knife, round knife, powered shears, shears, powered spreading machine computerized marker planners & their role in an industry, computer controlled cutting systems, notch and drill makers, bias and die cutting.			

4. FINISHING MACHINES

10 20

Snap button machines with different dyes, pressing machines – Ordinary iron, steam press, carrousel under press, using sleeve and shoulder boards, carrousel general press, steam dolly, Tunnel Fischer, washing machines for different washes.
Others- Conveyor systems for streamlining work different types, other mechanized workplaces, electronic and computerized machines for stitching and embroidery.

5. FORMAL SHIRT – INDUSTRIAL METHOD

6 5

To plan and stitch a shirt in an industrial method either on the industrial machines or on normal ones but in a batch, planning of a batch.

Total

48 100

Notes- The course includes two visits to suitable garment industries, as follows- One industry having finishing machines. One industry having general machines such as sewing, cutting machine, etc

REFERENCE BOOKS

1. The Technology of Clothing Manufacture by Harold Cau & Barbara Lathan
2. Introduction to Clothing Manufacture by Gercy Cooklin, Blackwell Science
3. Material Management in Clothing Production by David J Tyler

