

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA IN TEXTILE MANUFACTURING TECHNOLOGY
Semester: 4

Subject Name SPINNING AND WEAVING PRACTISE –II (Spinning Section)

Sr.No	Course content
1.	Obtain important features of comber.
2.	Set the feeding motion.
3.	Set the nipping motion
4.	Set the combing motion.
5.	Set the detaching motion.
6.	Set the level of noil % in comber.
7.	Set the hank of slivers.
8.	Control the procuction in comber.
9.	Test the performance of comber.
10.	Obtain salient features of speed frame.
11.	Set the building motion.
12.	Set the drafting roller for given mixing.
13.	Set the hank of rove.
14.	Set the TPI of Roving
15.	Control the production of speed frame.
16.	Test the quality of rove.
17.	Demonstration on the machine with theimportant features of ring frame machine.
18.	Set the traverse motion on ring frame.
19.	Set the drafting systems of different machines.
20.	Set the twisting & winding machines.
21.	Obtain the important features of different types of rings.

22.	Obtain the important features of different types of travellers.
23.	Obtain the important features of spindle.
24.	Obtain the important features of yarn ballooning.
25.	Set the Production of yarn of required fineness through proper changes in gearing.
26.	set the count of yarn in ring frame.
27.	Set the twist in yarn.
28.	Set the cop building mechanism in Ring Frame
29.	Demonstrate important features of doubling frame.
30.	Obtain important features of different threading systems.
31.	Set the Production & T.P.I. of yarn in doubling machine.
32.	Set the machine for manufacturing different types of doubled yarns/fancy yarns
33.	Obtain important features of Blowroom line for waste spinning.
34.	Obtain important features of the following : (a) Willow opener (b) Hard waste opener (c) Roving waste opener (d) Roller & clearer card (e) Chappon spinning.

Weaving Section

1. Demonstrate working of size boxes.
2. Explain various drying systems.
3. Prepare size paste.
4. Demonstrate the working of sizing m/c.
5. Demonstrate motions like cut marking and slow motion.
6. Demonstrate working of controls like temp.and size level,.
7. Obtain the important features of multiple box motions.
8. Set the 'locking device' of Eccle's drop box motion.
9. Set the 'levelling device' and 'safety device'.
10. Set the 'card saving device'.
11. Preparation of card chain lag lattice.
12. Set the timing and setting of above devices.

13. Obtain the important features of following Jacquards.
 - (a) Single lift single cylinder Jacquard.
 - (b) Double lift single cylinder Jacquard.
14. Electronic.
15. Demonstrate different “Ties”.
16. Draw Piano card cutting machine.
17. Demonstrate Feeler Motions.
 - (i) Mechanical
 - (ii) Electrical
 - (iii) Electronic
18. Demonstrate cop changing mechanism.
19. Demonstrate three try stop motion.
20. Set the positive let off motion.
21. Set the warp stop motion.
 - (i) Electrical
 - (ii) Mechanical
 - (iii) Electronic
22. Set the photo electric stop motion.