

# GUJARAT TECHNOLOGICAL UNIVERSITY

## Diploma in Textile Manufacturing

Semester: 3

**Subject Code** 332905

**Subject Name** SPINNING AND WEAVING PRACTICE –I

---

### (A) Spinning

Sr. No.	Course content
1.	<b>BLOW ROOM :</b> (1) Obtain important features of different ginning machines i.e. saw roller, knife roller & macarthy gin. (2) Set the production of ginning m/c. (3) Obtain important features of Blow room m/cs. S.R.R.L Opener Axi -flow cleaner Air stream cleaner ERM cleaner Mono cylinder cleaner (4) Set the speed of important beaters (5) Control the production in Blow room (6) Set the length measuring motion (7) Set the feed regulating motion (8) Set the Lap hardening motion (9) Set the auto lap doffing motion (10) Prepare Lap of suitable thickness/ weight in Scutcher
2.	<b>CARDING :</b> (1) Set the waste extraction in Blow room machines. (2) Study salient features of carding m/c. (3) Control the production in carding m/c. (4) Set coiler mechanism in carding (5) Set mote knives in carding (6) Perform grinding operation in carding (7) Perform stripping operation in carding (8) Set the waste extraction in carding (9) Set the hank of sliver in carding (10) Obtain salient features of modern developments in carding
3.	<b>DRAWING :</b> (1) Obtain important features of draw frame machine. (2) Set the drafting roller for different mixing. (3) Set the roller weighting arrangement. (4) Set the stop motion in draw frame. (5) Set the hank of draw sliver. (6) Obtain important features of auto leveler on drawing frame

## (B) Weaving

Sr. No.	Course content
1.	<p><b>WINDING MACHINES :</b></p> <ol style="list-style-type: none"><li>1. Identify main parts and mechanisms such as yarn clearing device, Tensioning device of modern super speed winding machine.</li><li>2. Prepare a passage of yarn on modern super speed winding m/c.</li><li>3. Demonstrate modern S.S. winding process.</li><li>4. Operate the modern winding machine.</li><li>5. Prepare a suitable package.</li><li>6. Find out the faults in winding package.</li><li>7. Rectify the causes of faults.</li><li>8. Prepare the passage of yarn through Beam warping / sectional warping.</li><li>9. Demonstrate the working of warping m/c.</li><li>10. Prepare various types of creels.</li></ol>
2.	<p><b>WEAVING MACHINE :</b></p> <ol style="list-style-type: none"><li>1. Identify the important parts of plain loom and enlist their functions.</li><li>2. Prepare a passage of yarn &amp; cloth on grey cloth manufacturing m/c.</li><li>3. Assemble &amp; set the primary motions.</li><li>4. Assemble &amp; set the secondary and auxiliary motions.</li><li>5. Demonstrate various motions of grey cloth manufacturing m/c.</li><li>6. Set and tune the various loom motions.</li><li>7. Operate the grey cloth manufacturing m/c.</li><li>8. Prepare a grey fabric as per given particulars.</li><li>9. Mend the cloth defects.</li><li>10. Repair the m/c. defects.</li><li>11. Manufacture the fabric by using following dobby.<ol style="list-style-type: none"><li>a. keighly</li><li>b. climex</li><li>c. cam</li><li>d. paper</li><li>e. electronically controlled dobby</li></ol></li><li>12. Prepare leg lattice of given design</li></ol>