**Torque speed characteristics of 3 phase induction Motor**

**Step 1:** Make connections as per the instructions given below:

1. (1-4), (2-5), (3-6)
2. (7-10), (8-11)
3. (7-12), (13-14)
4. (8-15), (9-16)

**Note: Click on the label to delete the connection for the corresponding node.**

1. Now, Check the connections by clicking on ‘CHECK’ button.
2. If the connections are ‘Invalid connections’ the webpage will reload automatically.
3. And if the connections are ‘Right Connections’ then follow the below steps.

**Step 2:** Turn on the MCB

**Step 3:** Now, Click on ‘**ADD**’ button to add the readings in the observation table.

**Step 4:** Vary the w1 and w2

**Step 5:** Now, Click on ‘**ADD**’ button to add the readings in the observation table.

**Step 6:** Repeat steps 4 and 5 until we take the 6 readings in the observation table.

**Step 7:** Click on ‘**PLOT’** button to plot the graph.

**Step 8:** Click on ‘**PRINT**’ button to takeout the print of the webpage.

**STEP 9:** Click on ‘**RESET**’ button to reload the webpage.

**Two wattmeter Experiment**

**Step 1:** Make connections as per the instructions given below:

**For Star Load:**

1. (3-14), (3-15)
2. (2-4), (2-8), (2-12)
3. (1-5), (1-6)
4. (7-10), (7-11)
5. **(9-16), (12-18),** (13-20)
6. (17-19), (19-21)

**Note: Click on the label to delete the connection for the corresponding node.**

**Step 2:** (a) Now, Check the connections by clicking on ‘**CHECK**’ button.

(b) If the connections are ‘Invalid connections’ the webpage will reload automatically.

(c) And if the connections are ‘Right Connections’ then follow the below steps.

**Step 3:** Turn on the MCB.

**Step 4:** Now, Vary the Voltage by moving the slider.

**Step 5:** Now, Click on ‘**ADD**’ button to add the readings in the observation table.

**For Delta Load:**

1. (3-14), (3-15)
2. (2-4), (2-8), (2-12)
3. (1-5), (1-6)
4. (7-10), (7-11)
5. **(9-16), (12-18**), (13-20)
6. (16-19), **(18-21**) (17-20)

**Step 6:** Repeat the process from step 2 to step 5.

**Step 7:** Click on ‘**PRINT**’ button to takeout the print of the webpage.

**STEP 8:** Click on ‘**RESET**’ button to reload the webpage.