

**B.Tech. I Semester (Electronics Engineering)**

Subject Code	Category Code	Subject Name	Theory Slot			Practical Slot		Total Marks	Contact Hr/week			Total Credits
			End Sem Marks	Mid Sem Marks	Quiz/ Assignment Marks	End Sem Mark	Lab work & Sessional Mark		L	T	P	
140111	ESC	Electronics Workshop	-	-	-	60	40	100	-	-	2	1

**Subject Name: Electronic Workshop****Subject Code: 140111****Course Objectives:**

Students will be able to learn the practical aspects of the basic electronic components, instruments and PCB designing.

**List of Experiment**

1. Study of basic electronic components
2. Study of bread board, power supply, digital storage oscilloscope and multimeter.
3. Identification of Polarity, and cut in voltage of various electronics components.
4. Phase shift measurement using Lissajous Pattern.
5. Study of basic steps involved in PCB designing.
6. Fabricate small electronic circuits.

**Course Outcome:**

After completing the course, students will be able to

- CO1. **Evaluate** the parameters of basic electronic components.
- CO2. **Calculate** the phase shift between two waveforms.
- CO3. **Design** small electronics circuits.