

BVM ENGINEERING COLLEGE [AN AUTONOMOUS INSTITUTION]

2EC31: MINI PROJECT CREDITS - 1 (LTP:0,0,1)

Course Objective

To develop ability and acquire knowledge of practical tools in order to solve real life problems related to industry, institutions and research organization by developing hardware and/or software based project.

Teaching and Assessment Scheme:

Teaching Scheme (Hours per Week)			Credits	Assessment Scheme				
L	T	P		Theory		Practical		Total Marks
			ESE	CE	ESE	CE		
0	0	2	1	0	0	40	60	100

Course Contents:

Guidelines:

1. Students should select a problem which addresses some basic real life applications.
2. The electronic mini Project for selected problem should have at least 20 to 25 Components.
3. Students should understand testing of various components.
4. Soldering of components should be carried out by students.
5. Students should develop a necessary Layout and PCB for the circuit.
6. Students should see that final circuit submitted by them is in working condition.
7. 15-20 pages report to be submitted by students.
8. Group of maximum three students can be permitted to work on a single mini project.
9. The mini project must have hardware part. The software part is optional.
10. Demonstration with poster/seminar presentation of all mini projects developed by the students at the end of semester.

Course Outcomes (COs):

After successfully completing this course, the student shall be able to:

1. Understand, plan and execute a Mini Project with team.
2. Implement electronic hardware by learning PCB artwork design, soldering techniques, trouble shooting etc.
3. Prepare Project Software by efficient algorithm Mini project.
4. Apply latest trends and technology in selected project.
5. Prepare a technical report based on the Mini project.
6. Deliver technical seminar based on the Mini Project work carried out.