Electronics and Electrical Measurements

Electronics and Communication Engineering

Electrical Engineering Department

Semester Project

Problem Statement:

Create a project using one of the following ideas or according to your thinking:

1. 300W or greater RGB Controller Two line or Four line output.
2. 10W or greater RGB spot.
3. Two pages Advertising panel.
4. Square, Sine and Triangle Generator.
5. Voltage and Current measuring circuit.
6. 300W load temperature based alarm.
7. 1A transformerless Power supply.

Requirements:

You must do the following tasks to get complete grade:

1. Measure the total power of circuit and load power experimentally.
2. Make application using software design such as (Labview) and connect this application with hardware.
3. Make two layers PCB design.
4. Make report file about your work.
5. Make presentation about your work.

Deliverables:

ZIP archive organized as follows:

1. Create folder and Name it (**Project Name**) that contains:
    A. Text file that contains names of team.
    B. Hardware folder that contains schematic and layout.
    C. Software folder that contains software work.
    D. Presentation folder that contains one power point file.
    E. Report folder that contains project data in one word file.
2. Compress the folder into a single zip archive.
3. Upload the archive to the course page.

Due Date:

Before the oral exam that will be held one or two weeks earlier than the final exam. Start working on the project immediately.

Grading:

The grading percentage of project is:

1. Hardware (50%) [Two layers PCB is required].
2. Software (30%) [Monitoring or Control one task is required at minimum].
3. Finishing (20%) [Organize your job].