PROJECT SUBMISSION
Rule Book

Hello World!

Congratulations! on the completion of the 3 Day Workshop on PCB Designing and Fabrication, conducted by Prof. Aruna Gunawardena and Mr. Ranjan Kulathunga.

Content

General Guidelines

- Participants must be **Undergraduates** or **School students.**
- **Individual** or **Team** Submissions are accepted.
- A team must not exceed **maximum of 3** members.
- Submissions are accepted **only** through the given link.
- Judges decision will be final.
- Deadline : Before 11:59 PM on June 19, 2021.

Competition Details

Task
PCB design for an IOT Smart Switch

Functionality
A WiFi based wireless switch that can connect to a wide range of appliances

Sample Design

https://sonoff.tech/product/diy-smart-switch/rfr2/

Sonoff is an affordable ESP8266 based device that provides users with smart home control. It is a WiFi based wireless switch that can connect to a wide range of appliances. Sonoff transmits data to a cloud platform through the WiFi router, which enables users to remotely control all the connected appliances, via the mobile application

What you need to submit ?

1. Duly completed Project submission template as a PDF
2. Compressed file containing following documents;
   a. Project folder of the PCB Design software
   b. Folder containing Gerber files and Drill file
   c. Bill of Material as a spreadsheet.
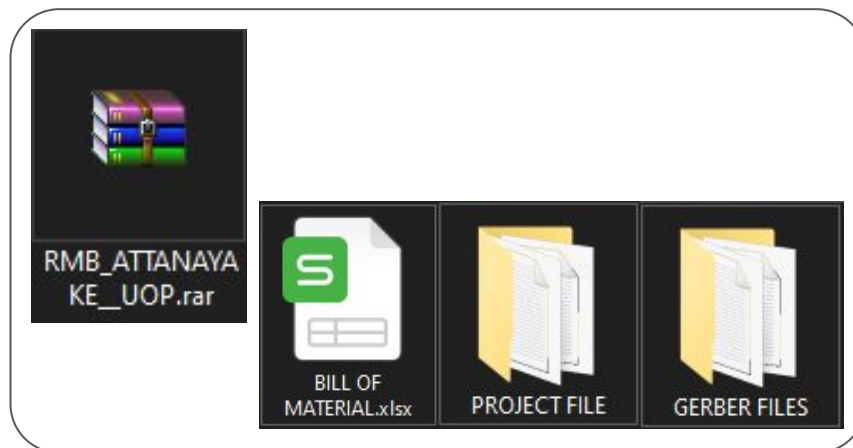
Submission

- Strictly follow the given file naming convention for all the requested documents.
  - Individual - [YOUR_NAME__UNIVERSITY].
  - Team - [LEADER'S_NAME__UNIVERSITY].

  Ex : RMB_ATTANAYAKE__UOP.pdf , RMB_ATTANAYAKE__UOP.rar

Submit your finalized documents through the following link
https://forms.gle/4UdDoq9TnhoxnFZf9

Awards

- First three places will be rewarded with valuable Prizes and Certificates
- Each Submission will be eligible for a Valuable E-Certificate

Note

- Contestants have the freedom to choose the components accordingly while optimizing the design.
- Software implementation is not considered for the evaluation.
- Team / Individual will be disqualified if,
    - The final submission does not satisfy the above-mentioned requirements.
    - Any kind of plagiarism is detected.
    - False information provided by the competitors

Resources

Sample Project Submission file

PCB Design Software (Recommended)

- KiCad:
  - Windows-64 bit
  - Windows-32 bit
  - Other : https://www.kicad.org/download/

Mechanical CAD Software (Optional)

- SolidWorks (~15GB)
  - Windows-64 bit
- FreeCAD
  - Windows-64 bit
  - Other : https://www.freecadweb.org/downloads.php

Other useful softwares

- Fritzing
  - https://softfamous.com/fritzing/download/
  - https://getintopc.download/download/g/Fritzing%20(64-bit)/

Contact

Please contact for any clarification

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