



# PROJECT SUBMISSION

## Rule Book



IEEE STUDENT BRANCH  
UNIVERSITY OF PERADENIYA





# 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](#).

The poster features a dark blue background with a subtle circuit board pattern. At the top left is the 'ADVANCED PCB DESIGNING & FABRICATION WORKSHOP' logo. To its right, the title 'THREE DAY WORKSHOP & COMPETITION' is displayed in large, bold, yellow and white text. Below the title, a white box with a yellow 'TOPIC' label contains the text 'PCB DESIGNING AND PRO TIPS' and 'PCB FABRICATION'. Underneath, the 'GUEST SPEAKERS' section shows two portraits: Eng. Ranjan Kulathunga on the left and Prof. Aruna Gunawardena on the right. Below each portrait is their name in white capital letters. At the bottom, two white boxes with calendar icons provide the dates and times: '10<sup>th</sup> & 11<sup>th</sup> June 2021 6.00pm - 8.00pm' and '12<sup>th</sup> June 2021 10.00am - 12.00pm'. A yellow 'REGISTER NOW' button is at the bottom left. The text 'Via zoom' with a Zoom logo is centered at the bottom.

**ADVANCED PCB DESIGNING & FABRICATION WORKSHOP**

**THREE DAY WORKSHOP & COMPETITION**

**TOPIC**  
PCB DESIGNING AND PRO TIPS  
PCB FABRICATION

**GUEST SPEAKERS**

**ENG. RANJAN KULATHUNGA**

**PROF. ARUNA GUNAWARDENA**

**10<sup>th</sup> & 11<sup>th</sup> June 2021**  
6.00pm - 8.00pm

**12<sup>th</sup> June 2021**  
10.00am - 12.00pm

**REGISTER NOW**

Via zoom



IEEE STUDENT BRANCH  
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THE OPEN UNIVERSITY OF SRI LANKA



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## 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

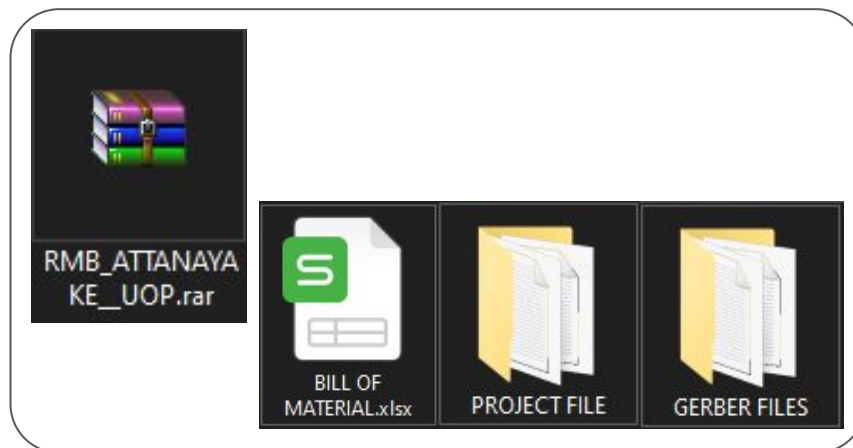
## Sample Design

<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\(64-bit\)/](https://getintopc.download/download/g/Fritzing%20(64-bit)/)



## Contact

Please contact for any clarification

Vanodhya Warnasooriya

Vice Chair - IEEE Student Branch - University of Peradeniya

Email : [vanowarna@ieee.org](mailto:vanowarna@ieee.org)

Sachith Wijesooriya

Program Team - IEEE Student Branch - University of Peradeniya

Email : [sachithwije98@gmail.com](mailto:sachithwije98@gmail.com)