

PCB Mastery Challenge: Official Rule Book

This competition is open to all university students.

1) Introduction:

The PCB Design Competition challenges participants to create a functional, efficient, and manufacturable printed circuit board (PCB) design within a specified time frame. Participants will receive a circuit diagram with labeled components and will be tasked with preparing a schematic diagram and then transforming that schematic into a PCB layout. The competition encourages participants to showcase their skills in PCB design, component placement, and routing techniques.

2) General Rules:

- Each participating team may consist of upto 3 members.
- If the students from different Institutes/Universities want to join hands and form a team in collaboration, they can do so.
- Participants are expected to bring their own laptops with the necessary simulation software pre-installed.
- No team member will be added further once the registration is done.
- If you want to register for the competition you must need to fill the form on website.
- Disqualification will be made on the spot, if any of the team members are found arguing (using slang/physical contact) with the organizing team or the member of another team.
- Organizing team have the right to amend the competition rules/duration at any time.
- The panel of judges for each competition will be comprised of members from the relevant fields and past experiences in competitions.
- The decision of judges will be final.
- If you win a competition, we will notify you at the end of the whole event.
- The prize will not be transferable to another team.
- No part of a prize is exchangeable for cash or any other prize.
- Incorrectly completed entries will be disqualified.



3) Game Rules:

- Each round will last a maximum of 1 hour.
- Participants will be provided with a circuit diagram (picture) with labeled components.
- Participants must first prepare a schematic diagram using the given circuit diagram.
- All component footprints will be available through pre-installed libraries in the software. No need to create or import custom footprints.
- After completing the schematic, participants will transform it into a PCB layout, ensuring proper component placement and routing of connections.
- Only the specified PCB design software including Easy EDA, Altium, OrCAD, Allegro, KiCAD and Eagle are allowed having readily available component libraries.
- Teams must adhere to the provided board dimensions, layer limits, and component lists.
- Teams must submit all required files (Schematic, PCB layout, Gerber files) in the prescribed format.
- Designs will be evaluated on the basis of design accuracy, efficiency, component placement and routing quality.

4) Important Dates

• Competition Dates: October 12-13, 2024

5) Collaborative Partner N'S LARGEST DIGITAL AND TECH

This competition will be hosted in collaboration with RoboAutomators.

6) Contact Information

For any questions or additional information, please contact us at:

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