



RV Educational Institutions®
RV College of Engineering®

Autonomous
Institution Affiliated
to Visvesvaraya
Technological
University, Belagavi

Approved by AICTE,
New Delhi



Bangalore Branch



A E R O M A N I A

CLASH OF CAD

RULE BOOK



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Description:

This event's main goal is to identify and appreciate the CAD modeling talent of budding engineers. A good understanding of CAD software and tools is required to convert a 2D drawing into a 3D model in less time. This competition will also check the student's knowledge of emerging technology like additive manufacturing and how a part is prepared for FDM 3D printing. This event will happen in 2 phases.

First phase

The first phase is a filter phase that selects the top 10 -15 teams which will continue to the next phase. In this phase, the teams will be given 2D drawings of the parts which they have to model and assemble, first 10-15(tentative) to display the assembly will continue to the next phase.

Second phase

This phase is more challenging, the teams will be provided with a physical part and its properties will be mentioned along with the part, there will be a time limit in this round and the first 3 teams to tell the mass of the part (backed by proof) nearest to the actual mass within the time limit will be awarded.

Rules

- Maximum 2 people in a team.
- The students are supposed to arrange for their own laptops for the competition, and power outlets will be arranged by the organizer.
- Any CAD software can be used, the final assembly has to be converted to step format and uploaded to the drive link provided during competition.
- Only one copy of 2D drawing will be provided per team
- Dimensional errors will reduce the chance of getting selected to phase 2 even if the submission was done quicker than other teams.
- Proper proof has to be shown in phase 2 which backs the mass which the team provides, random guesses are not allowed.
- Organizer's decision is final.



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Event Timeline

Phase 1 – 12:30 – 1:00 PM

Phase 2 – 1:15 – 2:30 PM

15 min gap between the two phases will be used by the organizer to filter candidates for phase 2.

Registration Fees : **₹300**

Prize Money: **₹3000**