HALL OF FRAME COMPETITION

WHAT IS IT?
- Teams of students will construct frame based structure (frame structure)
- Using only cardboard sheet(x1), interior sheet(x2), glue, scissor, newspapers.
- Structure will be judged on aesthetics and originality of design, presentation, ultimate load carrying capacity, height of structure (no of floors) and predicted failure point.
- Team will consist of maximum 3 students.

TASK
- Design a frame based structure which has maximum height, mentioned carpet area and which can carry maximum load with limited resources.

SPECIFICATIONS

DESIGN CONSTRATINTS:
- The floor height should be 100mm with an error of +/- 10mm.
- The base area should be greater than 50000mm^2
- The columns can be of any shape the team want.(i.e. rectangular, triangular, square)
- At every floor sheet will be must.(i.e. base then columns then sheet then columns and again sheet and so on…)

RULES:
- Teams will be given 5 minutes to make final changes in their structure before the testing, and once the changes are done, the structure will be tested.
- All teams have to make their model at the venue, no team shall be allowed to bring their models prepared before.
- The dimensions of the structure will be measured and it will be made sure that the structure satisfies the given dimensions.
- The built structure will be analysed and points will be given according to judging criteria given.

TEAM SPECIFICATION:
- A team may consist of maximum of 3 members. students from different educational institutes can form a team.

JUDGING CRITERIA

- The judging of the structure is based on 4 important criteria:
- Aesthetics, originality of design, presentation -25 points
- Ultimate load carrying capacity   -25 points
- Height of structure (no of floors)   -25 points
- Predicted failure point   -25 points

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                                   100 points

Note: for e.g. the team with maximum no of floor will be awarded 25 points and the one with the minimum no of floor will be awarded 0 points.
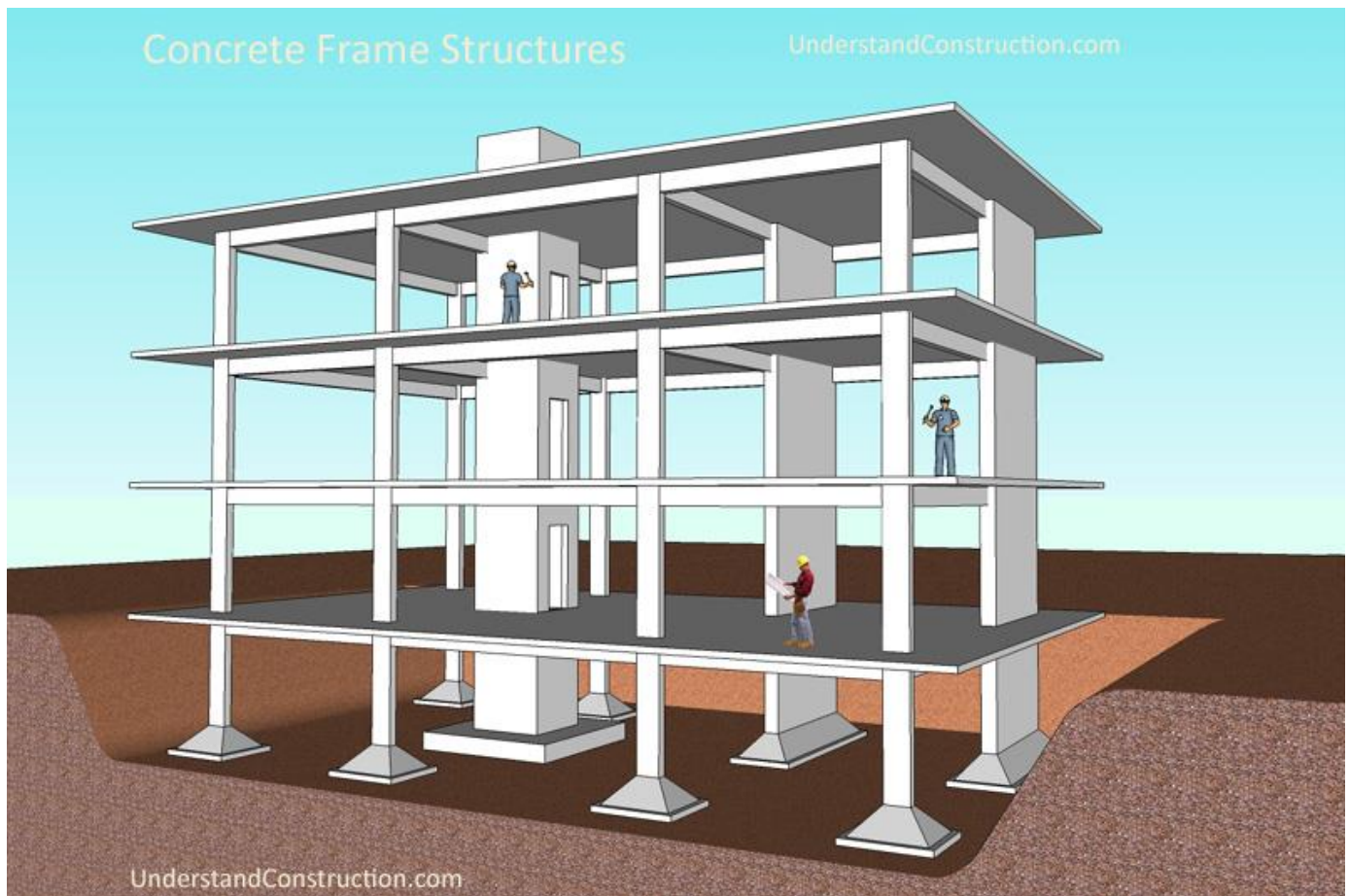
Others will be awarded points in between, using linear interpolation.

this is on the spot event and material will be provided.

TIME DURATION

- 2 hours will be given to construct this model to teams.

SAMPLE STUCTURE

For queries contact:

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