



## Jugaad

Pool Event, Open-To-All

Points: 50

### OVERVIEW

In order to win, each pool must solve problems of hostel dwellers of another pool.

### STRUCTURE

1. Every pool will submit 1 problem faced in the IIT Kanpur along with a possible technological solution and design of the prototype.
2. There would be a lucky draw and one problem statement would be selected. All the pools would have to submit a prototype on the selected problem statement.
3. A potential technological solution (with design of prototype) to all the other 3 problem statement along with the financial estimates of the suggested solution should be made.
  - a) Solutions will be judged in terms of feasibility and financial comparisons, as well as novelty and originality.
  - b) Any valid solution and prototype must have an associated financial analysis, failing which it will not be considered for evaluation.

Example: <http://ecopreneurist.com/2011/09/14/an-innovative-and-cheap-solar-light-bulb-lights-homes-in-manila/>

### TIMELINE/EVENT STRUCTURE:

26-08-13: Every pool must submit the following data:

- 1) A problem faced at IIT Kanpur.
- 2) A description of the problem and background information

The submissions will have to be done manually to event coordinators at 10:00 PM after which there would be a lucky draw in the presence of representatives from each pools (preferably pool captains) to select the problem to be prototyped.

### CONDITIONS:

- a) All the solutions combined must be within the budget of INR 5000.
- b) Financial estimates must cover in detail all costs in terms of liquid cash spent for purchase, labour rate, transportation cost etc. However to ease the budget constraint, the labour cost will not be considered while calculating budget constraint, but will contribute while comparing finances. (do mention any approximations made for rates etc. standard labour cost for man-hours spent and



transportation costs will be market rates and labour cost as available from data acknowledged by IIT Kanpur.)

c) Any data/estimate/fact used in arriving at the solution must be made available as a part of the background information. The solution will not be made available outside the organising team. However, during evaluation of the solution, all the data must be able to be verified from the description, failing which will lead to penalty for every such instance encountered, upto a maximum of 5 discrepancies after which they will be penalised for 20% of their final marks.

A team can access data provided by another team at the cost of losing 10% of points they finally obtain for that problem.

### **Prototype**

A lucky draw will be made in presence of all pool captains to select one problem statement out of the four.

A prototype of the solution must be proposed and developed by each pool for this problem statement. For the other three, each pool must submit a detailed document of solution. The solution must have details of the potential prototype which can be used to build it.

**Day 2,3,4:** Every pool must submit one solution (with proper design specifications) to each problem statement.

Each problem statement is independent and its evaluation will not take into account the pool's performance on other problem statements.

The entries need not be sent together, but can be sent as and when they are completed. However, once sent, an entry cannot be revised later.

For every problem, the solutions of all the four pools will be evaluated and ranked 1st to 4th.

*For the entry chosen by lucky draw, Prototype is to be submitted by Day 4, 11:59 AM.*

### **Judging:**

Out of 100, evaluation will be done in the following manner:

A pool without prototype (might not have been finished) will be disqualified automatically.

#### **Question(Q): 10**

-Relevance of question: 5pts

-Average points obtained by all solutions: 5pts

#### **Prototype(P): 36 pts**

-10pts innovation

-16pts effective working of the prototype, the availability of raw materials used, the ability to be reproduced on a large level without damaging the environment, cost effectiveness etc.

-10pts format, details and authenticity of the cost estimation done in the document submitted.



**Other Solutions(S1,S2,S3): 18 pts each**-10pts innovation and design

- 8pts format, details and authenticity of the cost estimation done in the document submitted, ie degree of detail and research.

Hence the final score out of 100 will be calculated as:

$Q + P + S1 + S2 + S3$

The pools will be ranked on the basis of this final score

**Tie-breaker:**

In case of a tie between two teams,

Pool with more points on prototype will win

In case of tie after the above,

Pool with more points for their Question will win

In case of tie after above two,

Points will be split evenly between the two pools.

**CONTACT**

Pranay Jain

[pranay@iitk.ac.in](mailto:pranay@iitk.ac.in)

+918960401909

Rishikesh Mishra

[mrishi@iitk.ac.in](mailto:mrishi@iitk.ac.in)

+919621258101