Science & Technology Council

TAKNEEK'14
Innovation At Its Best
August 28-31

TAKNEEK '14

Post-Conduction Report

Submitted By:-

Shivendu Bhushan
General Secretary
Science and Technology Council

Overall Coordinators:

Ketan Bagga, Rahul Ranjan and Sonu Agarwal

Changes in the pre-conduction report:-

- The total points for the event was written 1200 but it actually summed up to 1210. With mutual consent of the pool captains, the points for following events were modified:
  - Points for Disen-O-Suspension was changed from 30 to 25
  - Points for Science Quiz was changed from 20 to 15

  With the above changes made, the total point for the championship remained 1200. Point structure of various categories was hence accordingly adjusted

- A two level Grievances Redressal committee was approved by the Students' Senate:
  - sGRC – Senior members from each UG male hall in the pool.
    The members of the sGRC were:-
    - Chetan Kumar Garg (Hall 10)
    - Anurag Sahya (Hall 3)
    - Abhimanyu Arora (Hall 5)
    - Chirag Agarwal (Hall 10)
  - GRC - GRC constituted of following members:
    - Dean, Student Affairs
    - Faculty Counsellor, Science and Technology Council
    - Associate Dean, Student Affairs
    - President, Students Gymkhana
    - Chairperson, Students Gymkhana

Key Highlights

- The events were well received by the campus with huge participation from the campus community. The event were designed targeting different sections of the of the campus junta (-4000 participants).
- There were 6 new events namely: Aviator, The Lost Explorer, Gliding Hunt, Disen-O-Supension, Design-O-Flare and Enactus.
- Several Problem statements were revamped and made suited to the changing trend in science and technology.
- A new category of events – Social Impact was introduced, targeting Inter IIT Tech Meet.

- Few events being continued for past several years was dropped because of less/no participation and small contribution to the overall learning of the campus residents.
- There were 45 competitions, out of which 3 were scrapped because of unavoidable circumstances. In competition Gearloose no team was awarded any points because of violation of minimum eligibility criteria.
- 5 GRC complaints were filed by the two pools namely Marathas and Rajputs.

GRC Complaints

- Following complaints were made by the Marathas
    - In the final match of WildSoccer, a claim was made that bots from the pool Mauryans exceeded the 8 Kg weight limit. After weighing it was found to be 8.130 Kg. The bot was not disqualified owing to general accepted practice of 5% error. The complaint was against this decision of the organizing team.

    - In the event Gearloose, judge/referee announced zero points to each pool, because none of the team were able to meet the basic needs of the problem statement. The judge made some changes in the rules at the venue and all the teams present agreed to the changed rule. So, the pool Marathas wanted the points be awarded as per the changed rule.

- Following complaints were made by the Rajputs
    - In the event Jugaad, Rajputs claimed that the solution proposed by one of the pools should have been disqualified by the judges, because it exceeded 5000. Hence, they wanted the results be modified accordingly

    - In the event SnT Blogging, the minimum likes criteria was not met, and they claimed against it.

    - For the event SuperSapiens, Rajputs claimed that judging was not done as mentioned in the pre-conduction report.

sGRC meeting

- The five complaints were discussed by the students, of which the complaint against SnT Blogging was resolved when Organizing team produced printed snapshot proving the criteria was not met.
- Given an option, both the pool captains preferred to discuss remaining four complaints at the GRC comprising of DoSA, ADSA, Faculty Counsellor SnT

President Students Gymkhana and Chairperson Students' Senate.

GRC meeting

- Three meetings were held at different times, when all the five members could fine a common free schedule. It was very difficult to decide the timings for the meeting. In the meeting the pool captains and General Secretary, Science and Technology Council were invited to explain their claims and the circumstances under which the decisions were taken

- The minutes of the GRC is appended at the last of the report.

- The GRC announced the decisions taken by the organizing team were impartial and violation/deviation of the rules were purely incidental.

- The GRC overturned the both the claims made by Pool captain, Marathas. It also overturned the claim made by Pool Captain, Rajputs for the event Jugaad. However it directed the organizing team to get all the entries of the events SuperSapiens regarded.

The final standing of the pools after regarding:-

Pool	Points	Position
Rajputs	632.5	1st
Mughals	621	2nd
Marathas	610	3rd
Mauryans	340	4th

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Event Results

S.No.	Events	1st position		2nd Position		3rd Position		4th Position	
		Pool	Points	Pool	Points	Pool	Points	Pool	Points
1	SnT code	Marathas	70	Rajputs	35	Mughals	21	Mauryans	14
2	Design-o-flare	Mughals	40	Marathas	24	Mauryans	12	Rajputs	4
3	Bridge It	**Mughals**	30	**Mughals**	18	**Mughals**	9	Marathas	3
4	Black Box	**Rajputs**	25	**Rajputs**	15	**Rajputs**	7.5	Mauryans	2.5
5	Embedded	Mughals	35	Marathas	21	Rajputs	10.5	Mauryans	3.5
6	Electromania	Mauryans	35	Mughals	21	Rajputs	10.5	Marathas	3.5
7	3x3x3 Speed Solve (Freshers)	Rajputs	20	Mauryans	12	**Marathas**	6	**Marathas**	2
8	3x3x3 Speed Solve(Seniors)	**Marathas**	15	Rajputs	9	Mughals	4.5	**Marathas**	1.5
9	Medley Relay	**Marathas**	20	**Marathas**	12	Mughals	6	Rajputs	2
10	Science Quiz	Marathas	15	Mauryans	9	Rajputs	4.5	Mughals	1.5
11	Gliding Hunt	Marathas	20	Rajputs	12	Mughals	6	Mauryans	2
12	Heavens Above	**Mughals**	30	***Mauryans***	18	**Mughals**	9	***Mauryans***	3
13	Green Poster Challenge	Marathas	15	Rajputs	9	Mauryans	4.5	Mughals	1.5
14	SnT Quiz	Mughals	50	Rajputs	30	Mauryans	15	Marathas	5
15	Crypto	Rajputs	20	Marathas	12	Mughals	6	Mauryans	2
16	Kodefest	Rajputs	30	Mughals	18	Mauryans	9	Marathas	3
17	Block It	Rajputs	30	Marathas	18	Mughals	9	Mauryans	3
18	Webdev	Mughals	25	**Marathas**	15	Rajputs	7.5	**Marathas**	2.5
19	Crime Run	Rajputs	25	Marathas	15	Mauryans	7.5	Mughals	2.5
20	FPGA	**Marathas**	30	Rajputs	18	**Marathas**	9	Mauryans	3
21	Robotricks	**Rajputs**	30	**Rajputs**	18	**Rajputs**	9	Mughals	3
22	Enactus	Marathas	20	Rajputs	12	Rajputs	6	Mughals	2
23	Gearloose #	**None**	25	**None**	15	**None**	7.5	**None**	2.5
24	Astrophysics Problems	Mauryans	15	Mughals	9	Marathas	4.5	Rajputs	1.5
25	The Lost Explorer	Mughals	20	Marathas	12	Mauryans	6	Rajputs	2
26	Cruise Control	Marathas	35	Mauryans	21	Rajputs	10.5	Mughals	3.5
27	Team Blindfolded	Rajputs	15	**Mughals**	9	**Mughals**	4.5	Mauryans	1.5
28	Pitch Your E-poster	Mughals	20	Marathas	12	**None**	6	**None**	2
29	Astro Photography	Mughals	25	Mauryans	15	Rajputs	7.5	Marathas	2.5
30	Aviator	**Mughals**	25	Rajputs	15	**Mughals**	7.5	Marathas	2.5
31	Integration Bee	Mughals	15	Rajputs	9	Marathas	4.5	Mauryans	1.5
32	Nutcracker	Mauryans	20	Rajputs	12	Marathas	6	Mughals	2
33	Giant Particle Chess	Rajputs	20	Marathas	12	Mughals	6	Mauryans	2
34	What If	**Mauryans**	10	Marathas	6	**Mauryans**	3	Rajputs	1
35	Eureka	Mughals	25	Marathas	15	Rajputs	7.5	**None**	2.5

36	Jugaad	Mughals	40	Rajputs	24	Marathas	12	Mauryans	4
37	Disen-o-suspension	Marathas	25	Rajputs	15	Mauryans	7.5	Mughals	2.5
38	Rube Goldberg	Mughals	40	Rajputs	24	Mauryans	12	Marathas	4
39	SnT Blogging	Marathas	15	Mughals	9	**None**	4.5	**None**	1.5
40	Wild Soccer	Mauryans	50	Marathas	30	Rajputs	15	Mughals	5
41	Hoverrugby	Marathas	50	Rajputs	30	Mauryans	15	Mughals	5
42	Case Study*	**None**	20	**None**	12	**None**	6	**None**	2
43	AOE*	**None**	20	**None**	12	**None**	6	**None**	2
44	Stocksim*	**None**	25	**None**	15	**None**	7.5	**None**	2.5
45	SuperSapiens	**Rajputs**	15	**Rajputs**	9	Marathas	4.5	Mauryans	1.5
	Total Points		**1200**		**713**		**360**		**127**

Scrapped: *
Violation of minimum eligibility criteria: #

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Points awarded

S.No.	Event	Marathas	Mauryans	Mughals	Rajputs
1	SnT code	70	14	21	35
2	Design-o-flare	24	12	40	4
3	Bridge It	3	0	57	0
4	Black Box	0	2.5	0	47.5
5	Embedded	21	3.5	35	10.5
6	Electromania	3.5	35	21	10.5
7	3x3x3 Speed Solve (Freshers)	8	12	0	20
8	3x3x3 Speed Solve(Seniors)	16.5	0	4.5	9
9	Medley Relay	32	0	6	2
10	Science Quiz	15	9	1.5	4.5
11	Gliding Hunt	20	2	6	12
12	Heavens Above	0	21	39	0
13	Green Poster Challenge	15	4.5	1.5	9
14	SnT Quiz	5	15	50	30
15	Crypto	12	2	6	20
16	Kodefest	3	9	18	30
17	Block It	18	3	9	30
18	Webdev	17.5	0	25	7.5
19	Crime Run	15	7.5	2.5	25
20	FPGA	39	3	0	18
21	Robotricks	0	0	3	57
22	Enactus	20	0	2	18
23	Gearloose	0	0	0	0
24	Astrophysics Problems	4.5	15	9	1.5
25	The Lost Explorer	12	6	20	2
26	Cruise Control	35	21	3.5	10.5
27	Team Blindfolded	0	1.5	13.5	15
28	Pitch Your E-poster	12	0	20	0
29	Astro Photography	2.5	15	25	7.5
30	Aviator	2.5	0	32.5	15
31	Integration Bee	4.5	1.5	15	9
32	Nutcracker	6	20	2	12
33	Giant Particle Chess	12	2	6	20
34	What If	6	13	0	1
35	Eureka	15	0	25	7.5
36	Jugaad	12	4	40	24
37	Disen-o-suspension	25	7.5	2.5	15

38	Rube Goldberg	4	12	40	24
39	SnT Blogging	15	0	9	0
40	Wild Soccer	30	50	5	15
41	Hoverrugby	50	15	5	30
42	Case Study	0	0	0	0
43	AOE	0	0	0	0
44	Stocksim	0	0	0	0
45	SuperSapiens	4.5	1.5	0	24
	Total Points	**610**	**340**	**621**	**632.5**
	Position	**3rd**	**4th**	**2nd**	**1st**

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Trophy Results

S.No.	Category	Winning Pool
1	Aeromodelling	Marathas
2	Astronomy	Mughals
3	Business	------
4	Electronics*	Marathas
5	Programming	Rajputs
6	Robotics	Rajputs
7	Science	Rajputs
8	Social Impact*	Marathas
9	Flagship Events*	Mughals
10	BRaIN*	Rajputs
11	DesCon*	Mughals
12	Gliding*	Marathas
13	Rubiks Cube*	Marathas
14	SAE*	Marathas
15	Hoverugby	Marathas
16	WildSoccer	Mauryans

Details:

Category	Event	Marathas	Mauryans	Mughals	Rajputs
Aeromodelling	Cruise Control	35	21	3.5	10.5
	Aviator	2.5	0	32.5	15
	Hoverrugby	50	15	5	30
Total		**87.5**	**36**	**41**	**55.5**
Astronomy	Astrophysics Problems	4.5	15	9	1.5
	The Lost Explorer	12	6	20	2
	Astro Photography	2.5	15	25	7.5
	Heavens Above	0	21	39	0
Total		**19**	**57**	**93**	**11**
Business	Case Study	0	0	0	0
	AOE	0	0	0	0
	Stocksim	0	0	0	0
Total		0	0	0	0

Electronics	FPGA	39	3	0	18
	Embedded	21	3.5	35	10.5
	Electromania	3.5	35	21	10.5
Total		**63.5**	**41.5**	**56**	**39**
Programming	Kodefest	3	9	18	30
	Webdev	17.5	0	25	7.5
	Black Box	0	2.5	0	47.5
Total		**20.5**	**11.5**	**43**	**85**
Robotics	Robotricks	0	0	3	57
	Block It	18	3	9	30
	Wild Soccer	30	50	5	15
Total		**48**	**53**	**17**	**102**
Science	Integration Bee	4.5	1.5	15	9
	Nutcracker	6	20	2	12
	Giant Particle Chess	12	2	6	20
	What If	6	13	0	1
	Science Quiz	15	9	1.5	4.5
Total		**43.5**	**45.5**	**24.5**	**46.5**
Social Impact	Design-o-flare	24	12	40	4
	Enactus	20	0	2	18
	Green Poster Challenge	15	4.5	1.5	9
Total		**59**	**16.5**	**43.5**	**31**
Flagship events	SnT code	70	14	21	35
	Rube Goldberg	4	12	40	24
	SnT Blogging	15	0	9	0
	Eureka	15	0	25	7.5
	Gearloose	0	0	0	0
	SnT Quiz	5	15	50	30
	Crypto	12	2	6	20
Total		**121**	**43**	**151**	**116.5**
BRaIN	SuperSapiens	4.5	1.5	0	24
	Crime Run	15	7.5	2.5	25
Total		**19.5**	**9**	**2.5**	**49**

DesCon	Bridge It	3	0	57	0
Gliding	Gliding Hunt	20	2	6	12
Rubiks Cube	3x3x3 Speed Solve (Freshers)	8	12	0	20
	3x3x3 Speed Solve(Seniors)	16.5	0	4.5	9
	Medley Relay	32	0	6	2
	Team Blindfolded	0	1.5	13.5	15
Total		**56.5**	**13.5**	**24**	**46**
SAE	Disen-o-suspension	25	7.5	2.5	15

Budget

Printing and Flex	8000
Arena	21000
Components	32909
Trophy	---------
	61909

Recommendations:

- No/minimum clash with the SPO schedule be ensured by discussing with the SPO team.
- Organizing teams must ensure that problem statements are tested and implemented during the summers itself so as to relieve the coordinators' schedule, allowing them to focus more on introductory lecture, Takneek problem statement discussion and workshops.
- The late submission rules be made slightly more adaptable. The current rules states disqualification of entries submitted late even by a minute. Instead, certain penalty be imposed for late submission (linear penalty?)
- Certain events consider fb likes as eligibility criteria for the entries to be valid. Such rules meant for publicising council's page gets into the spirit of participation. Such criteria must be dropped.
- Events like gliding hunt, which depend on the state of sky at the time of event, must have an alternate problem statement in case of unfavourable conditions.
- Since e-Summit is organized a week before, E-Cell events could be dropped.
- For events like Stocksim, AOE all necessary arrangements must be well in advance. The necessary set ups must be done before.
- Generally accepted practices also should be listed in the pre conduction report. Say, 5% tolerance accepted in robotics events must be written specifically in the pre-conduction report instead of verbally communicated and practiced.
- Violation of disciplinary code of conduct must be dealt with seriously. It must be the duty of pool captains to ensure no physical agitation between the participants of different pools.
- Strict adherence to the rules mentioned in the pre conduction report. Any rules changed by the judge must be confirmed by the pool captains and the modified rules be counter signed by the judges, at least one member of the organizing team and pool captains (or nominee?)
- Organizing teams must ensure, pool captains apply for advance from the GC funds at least 2-3 weeks before Takneek.
- A mechanism needs to be devised which ensures pools don't have access to funds beyond 30K from hall funds.
- Pools must submit the needed money for participation in advance for participation in the events.

Organizing team of Takneek is thankful to the campus junta for their active participation. It thanks all those who have helped in the conduction of the event. It is grateful for the support extended by the Professors/Students/Lab Staffs in designing problem statement and judging of the events.

The efforts of the pool captains is appreciated. We urge/request the pool captains to maintain healthy competition and promote learning.

Takneek 2014 GRC
Minutes of the Meeting

The Chairman, GRC for Takneek'14 received complaints from two pools – Marathas and Rajputs. The GRC met on 28th January' 2015 to discuss these complaints.

The meeting was attended by the following people:

Dr. A R Harish (Chairman)

Dr. Vimal Kumar (Member)

Dr. Abhishek (Member)

Mr. Abhimanyu Arora (Member)

Mr. Anurag Sahay (Member)

Mr. Shivendu Bhushan (General Secretary, Science & Technology Council)

Mr. Preetham Gampa (Pool Captain, Rajputs)

Mr. Harsh Payal (Acting Pool Captain, Marathas)

Complaints:

Rajputs:

1. Mr. Preetham Gampa told the committee that in the event 'Homo Sapiens' the judging was done by one of the coordinators and not some Phd scholar as was decided earlier.
2. Mr. Preetham Gampa told the committee that in the event 'Jugaad' one of the pools exceeded the budget constraint but was not disqualified.

Marathas:

1. Mr. Harsh Payal told the committee that in the event 'Gearloose', scoring was done in the event but in the final results all the teams were disqualified. They claimed that their pool was getting 2/4 positions.
2. Mr. Harsh Payal told the committee that in the event 'Wild Soccer' in the final match between Marathas and Mauryans, one of the robots of the Mauryans team had exceeded the weight constraint and hence were asking for their disqualification.

Recommendations of the committee:

1. The GRC recommended for a re-judging in the event 'Homo Sapiens'.
2. The GRC recommended for no change in the result of the event 'Jugaad' because the judge gave the result while knowing the fact that a constraint was not followed.
3. The GRC recommended for no change in the result of the event 'Gearloose' because no team was fulfilling the minimum eligibility criteria according to the pre conduction report.
4. The GRC recommended for no change in the result of the event 'Wild Soccer' because the robot was under the 5% tolerance limit.

Dr. A.R. Harish
(Chairman)

Dr. Vimal Kumar
(Member)

Dr. Abhishek
(Member)

Mr. Abhimanyu Arora
(Member)

Mr. Anurag Sahay
(Member)