

# *TECHNO CAPIRE AL VOLO'09*

## **EVENT DETAILS**

It's the year 4950 A.D. The humans have inhabited every planet that can sustain life in our galaxy cluster. As they reached the far reaches of the cluster, they encountered the Krogans, a warrior race who were lead by a dictator Gondar Wrex. He wasn't willing to coexist with the humans, so he misinterpreted the Ner'zhul, the holy Krogan laws & stars an epic war against the humans. It rages on for over a 100 years & several planets were wiped out leaving billions dead. Wrex was killed in a human raid of the Krogan capital, Voleria. His successor comes to know about Wrex's sinister antics. So he calls for a meeting with the human senator Obi-won. They meet & decide to have & exchange of technologies as part of peace treaty that would bring this war to an end. A special task force of the best human scientist was formed & sent to the Krogan capital. As they were passing the orbit of Aries IV, they were killed as their ship was ambushed by the covenant & extremist group of rogue specters from the Krogan army who were against the peace treaty. This act of terrorism can not be allowed to hinder this treaty so the republic announces the search for the best minds to represent the human race.

All these 10 events are completely technical and have there own story based prelims and conductions. Apart from the below listed events, we are also going to host 5 general online events for which we have many electronic gadgets to be given for free to the winners, depending upon our computer generating selection criteria.

A brief Idea about the events:

- ❖ Rules & Regulations

### **Offline category:**

1. **Paper Presentation:** (IEEE /NON-IEEE =Rs. 40 /60 Per Team ) [29<sup>th</sup> Oct]

It would be conducted in a usual formal format.

<b>Electrical &amp; Electronics</b>	<b>Communication &amp; Computers</b>
Power Systems	Digital Signal Processing
Power Electronics	Computer Networks
Control Systems	Wireless Networks
Renewable Energy	Cryptography
Energy Conservation	VLSI & Embedded Systems
Electrical Machines	Artificial Intelligence
Transmission & Distribution	Multimedia
Applied & Digital Electronics	e-learning
Electronic Devices	Optical Communication Systems
Aerospace Electronics	Image Processing
Instrumentation	

- ❖ IEEE Format
- ❖ Max Two Members Per Paper
- ❖ A4 Size, 1.5 Line Spacing
- ❖ Times New Roman, Font Size of 12

- ❖ Maximum 12 Pages
- ❖ Two Hard Copies & One Soft Copy
- ❖ Time : 8 + 2

2. **Robo-Quest:** (IEEE /NON-IEEE =Rs. 200 /250 Per Team ) [30<sup>th</sup> Oct]

In this event participants would race their robots and display there innovation in robotic design domain.

✓ **F 1 Race**

- ❖ Max of 3 Members Per Team
- ❖ Racing knock out round
- ❖ Oval Lap
- ❖ Obstacle Avoider Robots
- ❖ Walls on both sides of the individual track (Always left turn)
- ❖ No RF control

✓ **Design Challenge**

- ❖ Optimal design & performance for the innovation round
- ❖ Robot has to be fully functional, you wont be given extra time

3. **Dexter's Den:** (IEEE /NON-IEEE =Rs. 40 /60 Per Team ) [30<sup>th</sup> Oct]

Obtaining solution of puzzled circuits. Ex: half wave rectifier.

- ❖ Max of 2 Members Per Team
- ❖ Consists of 2 rounds
  - Black Box Round
  - Hardware Round
- ❖ Students can carry only Calculator & Pen, other necessary things will be provided

4. **Brainstorm:** (IEEE /NON-IEEE =Rs. 40 /60 Per Team ) [30<sup>th</sup> Oct]

It would be about the brain teasing questions which will test the technical knowledge of the partaker's.

- ❖ Max of 2 Members Per Team
- ❖ Five teams to be shortlisted for 2<sup>nd</sup> round.
- ❖ Quizmasters decision is final

5. **Cat-Tack:** (IEEE /NON-IEEE =Rs. 40 /60 Per Team ) [30<sup>th</sup> Oct]

It is the idea of molding the process of CAT, giving it a tinge of specific technical limits.

- ❖ Individual Event
- ❖ 3 Rounds
  - Aptitude test
  - GD
  - Interviews

6. **Spiderman:** (IEEE /NON-IEEE =Rs. 40 /60 Per Team ) [30<sup>th</sup> Oct]

It would feature the idea of web designing.

- ❖ Max of 2 Members Per Team
- ❖ Web page must be contained within 100 MB
- ❖ The web page must be operable on an IBM TM compatible machine; no MAC TM operating systems will be provided
- ❖ Each entry may have only one author. However ethical policies require credit to be given for any assistance from other students or advisors
- ❖ Usage of any copyrighted material is strictly prohibited

7. **C Sanctum:** (IEEE /NON-IEEE =Rs. 40 /60 Per Team ) [30<sup>th</sup> Oct]

It would trample the concept with C Coding.

- ❖ Individual Event
- ❖ It consists of 2 rounds
- ❖ The question paper allows you to earn credit (forwarded to final round). Top 10 credit holders moves to final round
- ❖ In final round you are provided with one assignment at the beginning. Each assignment earns you some credit
- ❖ Any sort of cheating may lead to immediate disqualification

8. **Inter Galactic Expo:** (IEEE /NON-IEEE =Rs. 80 /120 Per Team ) [29<sup>th</sup> Oct]

It would provide participants to exhibit there working models. Models could be software or any mini-project related to the specific fields.

- ❖ Max of 4 Members Per Team
- ❖ It should be a full fledge working project
- ❖ If any requirement from our side should be informed beforehand

9. **Scientia:** (IEEE /NON-IEEE =Rs. 60 /90 Per Team ) [30<sup>th</sup> Oct]

It caters the vision of serving a platform to share the crazy ideas which can make a difference in future. It should be technically oriented.

- ❖ Max of 3 Members Per Team
- ❖ Ideas should be new & innovative
- ❖ They have to present in PPT form
- ❖ Every team will be given 6+2 min to brief about their project

10. **Amazing Race:** (IEEE /NON-IEEE =Rs. 60 /90 Per Team ) [29<sup>th</sup> Oct]

Treasure hunt event which can have one or more players who try to find hidden articles, locations or places by using a series of clues. This is a technical based activity, for instance, the clues would be dependent on the engineering concepts.

- ❖ Max of 3 Members per Team
- ❖ It has different check points

**Judges:** The selection of winners is the sole discretion of the judges.

**Online category (free):**

[29<sup>th</sup> & 30<sup>th</sup> Oct]

1. **Chemigza:** Chemistry quiz
2. **The Matrix:** Sudoku
3. **Towers of Hanoi:** Car driving arena
4. **Grab & Grow:** The classic snake-zenia
5. **Space Trivia:** Quiz on space facts and terminologies

The results will be generated automatically by the computer.

## **GAMING**

[30<sup>th</sup> Oct]

- ✓ **NEED FOR SPEED UNDERGROUND 2:** (Rs. 30 Per Team)
  - ❖ Individual Event
  - ❖ Circuit Race
- ✓ **COUNTER STRIKE:** (Rs. 150 Per Team)
  - ❖ 5 Members Per Team
  - ❖ Standard Maps
- ✓ **FIFA 07:** (Rs. 40 Per Team )
  - ❖ Individual Event
  - ❖ 4 minutes per half

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