



# Astrophotography

*Pool Event, Open-To-All*

Points: 25

## General Rules and Regulations:

1. This will be a pool event.
2. There will be 3 parts in this event.
3. The participants will have to know how to use a telescope and a DSLR camera before they come for the event.
4. All photographs taken should be taken in RAW format.
5. The participants of stages B and C may be asked to explain the technique they have used in processing the images.
6. Any delay of more than 5 minutes from the slot provided will lead to the disqualification, unless any of the astronomy club coordinators is informed at least 30 minutes before their respective slot.
7. In case of any dispute, the decision of the Judges will be final.

## Event Structure:

This event will be conducted in 3 parts

### A. Lunar photography

- A single team with a maximum of 3 members per team can take part from each pool.
- The participants will be given a list of lunar craters and maria, of which they have to take photographs using a telescope.
- Each team will be given a slot of 30 minutes for this round. The participants will not be allowed to practice or set up before their time starts
- They will be required to submit all photographs and select ONE, which will be considered for judging, at the end of their slots
- The entire crescent of the moon should be visible in the photograph
- The slots will be fixed on the basis of lottery. No request/dispute regarding this will be entertained



- **Minimum eligibility criteria:** All the lunar maria/craters in the list should be visible clearly. If it is not fulfilled, the pool will be awarded 0 points for Part A.
- In the case that the club coordinators believe that there were clouds or other related factors, hampering the quality of the image, for even one of the slots, then the score for this round will not be used.

### B. Star Trail

- A maximum of one entry will be allowed per pool
- The final processed image should have a total exposure of at least 45 minutes
- All of the unprocessed (in RAW format) and the processed (PSD format) photographs should be submitted by 11:00 am 1<sup>st</sup> September
- The layers in the final PSD file must not be merged.
- The photographs should be taken after 29<sup>th</sup> August. Any photographs taken on the 30<sup>th</sup> must not be taken earlier than 6:00 am.

### C. Image processing

- All the teams will be given a set of photographs which they will have to process and submit
- The softwares used must belong to the following list
  - i. CorelDraw
  - ii. MsPaint
  - iii. Shotwell Photo manager
  - iv. Microsoft Picture Manager
  - v. Registax
  - vi. Starstax
  - vii. Adobe Lightroom
  - viii. Adobe Photoshop
  - ix. AstroArt
- Further details will be provided when the images are distributed to the teams





### Judging:

1. All rounds will have equal weightage.
2. The factors that would be taken in to account would be
  - a. Focusing, framing and contrast for A
  - b. Noise reduction, focusing, framing, enhancement and contrast for B and C
3. Judging will be done by a professional Astrophotographer outside of IIT Kanpur.

### General Instructions:

- Everyone who wish to participate in these events are advised to attend the lecture and/or workshop that will be conducted
- Participants can have practice sessions in the club. They will have to inform the coordinators

### Contact:

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