

Innovative Space Rover Model Contest

Challenge:

A space rover model is to be made incorporating the design to navigate through unstructured environments in space like uneven surfaces. In this contest, students across schools/colleges are invited to submit innovative design models to address the technological challenges in space exploration.

Rules & Guidelines:

1. The competition is open for school/college students
2. A team of maximum 3 students is allowed
3. Household items/recycled junk/wood may be used to create Space Rover Model
4. Off-road design capable to traverse through surface unevenness of $\pm 10\text{cm}$ (wheel movement)
5. Show powerbank with solar station installed on the space rover platform
6. The model should be equal to or smaller than $50 \times 50 \times 50\text{cm}$ in size and 15 kgs in weight
7. Lego kits are not allowed
8. Legs or track chassis designs are not allowed
9. Logos of SUPARCO and WSW must be displayed and clearly visible on the model. Any entries without the logos will be subject to disqualification
10. Take 2 to 3 high resolution images of your space rover and 30 seconds video and submit at sws.sead.pakistan@gmail.com along with the submission form
11. Last date for submission is **23 Oct 2021**



How do I win?

To be eligible for winning the competition, the challenge and submission requirements must be met as per details mentioned above.

Judging Scorecard

The judging panel will rank the submitted entries using the following Judging Scorecard:

Metric	Weightage
Challenge fulfillment as per rules and guidelines	60%
Novelty, Creativity, Relevancy and Skills	30%
Submission as per format and form	10%

Design Your Space Rover Model

SUPPLIES & TOOLS:

1. Wood
2. Cardboard
3. Plastic plate
4. Acrylic paint (any color)
5. Paper
6. Glue

DIRECTIONS:

- The following videos are for reference only. Entire design must not be copied

<https://www.youtube.com/watch?v=0fKfDhzJeJ4>

<https://www.youtube.com/watch?v=G13ngOMCy0Q>

<https://www.youtube.com/watch?v=rDsS5gZckvI>

- DO NOT add motors or other components to your model.
- Only make a display model of everything using the allowed materials.

'Space Rover Model Contest' Submission Form

1. Participant Details

a. Name of Team	
b. Names of Team Participants	
c. Name of Institution	
d. Contact Address & No & Email	

2. Rover Details

a. List of household/ recycled items used	
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3. Checklist

- The space rover model contains SUPARCO & WSW Logos
- The submission is as per format
- The submitted work is an un-plagiarized creation of the submitter