

# Educational Outreach towards Manned Exploration of Mars and beyond

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## 1. Introduction

The human beings ongoing quest to explore Planetary bodies like Mars for prospective Manned Missions and future permanent habitation of Human civilization brings lot of questions to the people on Earth about this prospective ambition. Educational Outreach activities are the best way to educate people especially young school kids in order to make them aware about the happenings in the field of space research activities.

## 2. Planetary Exploration and Simulation Activities

Before the arrival and landing of humans on Moon, the world has questions when the humans will reach Moon and in present times that shift is towards Mars that when and how humans will arrive on Mars. Considering the various challenges and fears involved in carrying out a manned mission to Mars it is almost impossible to predict what will be the outcome of the first manned trip to Mars once the humans embark on the journey to the Red Planet which has attracted the human beings on Earth since old age times. In this direction it is very important to teach and educate the humans on Earth in particular to young school students whose minds are engulfed with hundreds of questions. Educational Outreach events conducted in this direction not only help the students to get acquainted with the basic challenges towards Manned exploration of Mars but also help them to get an understanding about the research activities being carried out in the direction of preparing for future manned mission through various simulation missions being carried by various agencies and organisations around the world. Conducting an Educational Outreach event in parallel with any ongoing Mars Simulation activities like MARS 500, MARS2013 and PMAS2017 helps the students to get live interaction with the crew involved in the simulation activities thus helping them to come to know about the steps being taken to prepare for the future trip to Mars and beyond. Such kind of outreach activities not only helps the students in getting diverse range of information related to space science but it also helps the organisers of the outreach activities to get acquainted with the imagination and approach of students towards space travel through activities like painting and drawing competition organised during the activity.

## 3. Figures



Figure 1: Educational Outreach Activity at Central Academy, Basti, India

## 4. Conclusion

Considering the fact that seeing the current happenings there is still a big time gap when the humans actually embark on the trip to Mars, educational outreach activities carried out in this direction will help in inspiring and motivating the current generation of young school kids to prepare themselves to get involved in

the future with the various organisations and research centres working towards making the manned trip to Mars successful.

## **5. References**

- [1] [www.esa.int/OurActivities/Human\\_Spaceflight/Mars500](http://www.esa.int/OurActivities/Human_Spaceflight/Mars500)
- [2] <http://spacegeneration.org/home/1660-mars-analogue-simulation-news.html>
- [3] <http://oewf.org/en/portfolio/morocco-mars-2013/>

## **Short Summary**

Educational Outreach activities towards the ongoing human effort to explore Mars and beyond. Such Educational activities inspires and motivates the young school students about the space travel and the various constraints and challenges towards the future of space travel