

## About the Workshop

This online workshop is focused on remote sensing of the Moon through various scientific satellite missions and discussions of their important findings. The Moon serves as a unique laboratory for understanding the evolution of terrestrial planets. The past few decades of remote sensing aided by in-situ exploration of the lunar surface followed by recent advances in the data analysis techniques have contributed significantly to our current understanding of the physical and chemical processes occurring over the planetary surfaces. Wealth of data acquired by various lunar missions has resulted in discoveries, provided huge opportunities to study the Moon by the examination of new ideas and testing data analysis algorithms

## Workshop Content and Outline

This online workshop will cover the following topics:

- Overview of Lunar Remote Sensing
- Reflectance spectroscopy and detection of endogenic water on the Moon: Examples from recent lunar Missions.
- Lunar South Pole Aitken basin - understanding mantle geochemistry
- Recent advances in radar exploration of the Moon.
- Chandrayaan-2 Imaging Infrared spectrometer (IIRS): Some initial results for mineral analysis.
- Mg-Spinel Mineralogy on the Moon

## Expected Outcome

The proposed workshop is planned to provide an overview of theory and techniques of remote sensing of the Moon and their applications in analyzing lunar surface characteristics and geology with special emphasis to Indian lunar missions. Students and researchers aligned to research in Planetary Science would be able to explore the planetary data in their research activities.

## How to register for workshop

Course updates and other details are available at URL- <http://www.iirs.gov.in/Edusat-News/>. All the participants have to register online through registration page available on the above web link.

## How to attend the Workshop

- Individuals can attend the course live via any web browser through the eclass portal of IIRS Dehradun i.e. <https://eclass.iirs.gov.in>
- The participants can also attend the live workshop via the YouTube channel of IIRS i.e., <https://www.youtube.com/user/edusat2004>
- The content of the workshop will be available offline after 24 hours in the eclass portal.

## Who can attend the workshop

The workshop is designed for professionals from Central / State Govt. / Private Organizations / NGOs engaged in geospatial data analysis related research and projects; students and researchers aligned to research in planetary science.

## Award of Certificate

- All the participants who attend the full live workshop via eclass portal.
- The participants who attend the workshop via IIRS youtube channel should mark their attendance via offline session available after 24 hrs.

## Workshop Contact Details

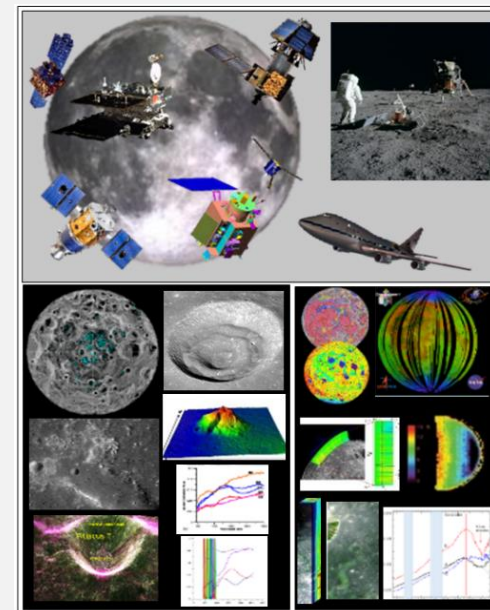
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## IIRS Outreach Programme



## One Day Online Workshop on “Remote Sensing for Lunar Science”

August 11, 2021



Organised by

**Indian Institute of Remote Sensing**  
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