

**Report on**  
**59- IIRS ISRO Outreach Programme on**  
**“Overview of Planetary Geosciences with special emphasis to the Moon and**  
**Mars”**  
**(Human Resource Development Center, Integral University, Lucknow)**  
**8<sup>th</sup> June to 12<sup>th</sup> June 2020**

Human Resource Development Centre (HRDC), Integral University Lucknow is one of the Remote Center of Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO), Department of Space, Govt. of India, Dehradun, India. Human Resource Development Centre, Integral University, Lucknow had successfully organized the 59, 1 Week Outreach Programme on **“Overview of Planetary Geosciences with special emphasis to the Moon and Mars”** from June 8-12, 2020 for working professionals and students in association with Indian Institute of Remote Sensing, Indian Space Research Organization, Department of Space, Govt. of India, Dehradun.





Indian Institute of Remote Sensing (IIRS) a constituent unit of under Indian Space Research Organization (ISRO) is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geo Informatics and GNSS Technology for Natural Resources, Environmental and Disaster Management. Formerly known as Indian Photo-interpretation Institute (IPI), founded in 1966, the Institute boasts to be the first of its kind in entire South-East Asia.

Following technical sessions of a wide variety of topics were taken by a team of expert’s viz.:

S. No.	Date	Topic	Resource Person	Link of material
1.	08 June 2020	Planetary Geoscience: Issues and Challenges	Dr. Prakash Chauhan, Director IIRS (ISRO)	<a href="https://eclasscms.iirs.gov.in/past_course#">https://eclasscms.iirs.gov.in/past_course#</a>
2.	09 June 2020	Geology of the Moon	Dr. S. L. Chattoraj	<a href="https://eclasscms.iirs.gov.in/past_course#">https://eclasscms.iirs.gov.in/past_course#</a>
3.	10 June 2020	Remote Sensing of the Moon: Techniques and Findings	Dr. P. K. Champati Ray	<a href="https://eclasscms.iirs.gov.in/past_course#">https://eclasscms.iirs.gov.in/past_course#</a>
4.	11 June 2020	Geology of Mars	Dr. Mamta Chauhan	<a href="https://eclasscms.iirs.gov.in/past_course#">https://eclasscms.iirs.gov.in/past_course#</a>
5.	12 June 2020	Microwave remote sensing with emphasis on Indian Moon Missions	Dr. R.S. Chatterjee	<a href="https://eclasscms.iirs.gov.in/past_course#">https://eclasscms.iirs.gov.in/past_course#</a>
6.	12 June 2020	Remote Sensing of Mars	Dr. Mamta Chauhan	<a href="https://eclasscms.iirs.gov.in/past_course#">https://eclasscms.iirs.gov.in/past_course#</a>

Overall, **Twelve Participants** attended the program and got benefitted from the much needed and timely insights on Satellite based Navigation. The participants appreciated program and shown desire to attend such other program.

### Institute, Coordinator and Participant Certificate by ISRO:

 सत्यमेव जयते	<b>भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING</b> भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA	
बहिः संस्कार संकेत/ विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME		COR596422020
संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE		
<p>यह प्रमाणित किया जाता है कि <b>इंटेग्रल यूनिवर्सिटी, लखनऊ</b> ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम <b>ग्रहीय भूविज्ञान का अवलोकन : विशेषतः चन्द्रमा और मंगल ग्रह के सन्दर्भ में</b> में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 08 जून, 2020 से 12 जून, 2020 तक किया गया।</p> <p>This is to certify that <b>INTEGRAL UNIVERSITY, LUCKNOW</b>, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on <b>Overview of Planetary Geosciences with special emphasis to the Moon and Mars</b>. This online programme was conducted during June 08, 2020 to June 12, 2020</p>		
दिनांक/ Date: 29-07-2020 देहरादून/ Dehradun	 प्रमुख, नियोजन सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS	 समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS