

**Report on**  
**1034- IIRS ISRO One day Workshop**  
**on**  
**“Remote Sensing based data Analytics in Agriculture”**  
**(Human Resource Development Center, Integral University, Lucknow)**  
**October 26, 2023**

Human Resource Development Centre (HRDC), Integral University Lucknow is one of the Nodal Center of Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO), Department of Space, Govt. of India, Dehradun, India. HRDC had successfully organized the 1034- IIRS ISRO One day Workshop on **“Remote Sensing based data Analytics in Agriculture”** on **October 26, 2023** for working professionals and students in association with IIRS, ISRO.

Indian Institute of Remote Sensing 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.

Objective of the workshop was to familiarize Agricultural researchers and administrators with application of geospatial technology and Agri analytics in crop and soil management. It emphasizes on Overview of Remote Sensing based data Analytics in Agriculture. Main Topics covered during programme are;

- Advanced Geospatial technology and data analytics in Agriculture
- Remote Sensing of Soils
- Analytics of Microwave Remote sensing in Agriculture
- Geospatial analytics for Predictive soil mapping
- Geospatial crop water analytics

Overall, Fifty nine students and working professional attended the program and got benefitted.

## Programme Schedule:

Day-1 October 26, 2023		
	Details	Speakers
9:30-9:40	Welcome and Overview of training	Course Director, Dr. N.R. Patel
9:40-10:40	Advanced Geospatial technology and data analytics in Agriculture.	Dr. N.R. Patel, Head, Agriculture and Soils Department
10:45-11:40	Remote Sensing of Soils	Dr. Suresh Kumar, Group Head, Agriculture, Forest and Ecology Group.
11:40-11:50	Tea Break	
11:50-12:55	Analytics of Microwave Remote sensing in Agriculture with case examples	Dr. Dipanwita Haldar, Scientist, Agriculture and Soils Department
13:00-13:45	Lunch Break	
13:45-14:45	Geospatial analytics for Predictive soil mapping with case examples	Mr. Justin George, Scientist, Agriculture and Soils Department
14:50-15:50	Geospatial crop water analytics with case examples	Mr. Abhishek Danodia, Scientist, Agriculture and Soils Department
15:50-16:00	Interaction with Faculty	All faculties

## Institute, Coordinator and Participant Certificate by ISRO:

 सत्यमेव जयते	<p>भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA</p>	
	<p>बहिः परिसर संपर्क/ विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME</p>	<p>COR20231034642</p>
	<p>संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE</p>	
<p>यह प्रमाणित किया जाता है कि <b>इंटेग्रल विश्वविद्यालय, लखनऊ</b> ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम <b>कृषि में सुदूर संवेदन आधारित आंकड़ों का विश्लेषण</b> में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 26 अक्टूबर, 2023 से 26 अक्टूबर, 2023 तक किया गया।</p>		
<p>This is to certify that <b>INTEGRAL UNIVERSITY,LUCKNOW- NODAL CENTER</b>, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on <b>Remote sensing based data analytics in Agriculture</b>. This online programme was conducted during October 26, 2023 to October 26, 2023</p>		
<p>दिनांक/ Date: 28-11-2023 देहरादून/ Dehradun</p>	<p> प्रमुख, जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT &amp; Distance Learning Department, IIRS</p>	<p> समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies &amp; Outreach Programme Group, IIRS</p>



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING  
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION  
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



बहिः परिसर संपर्क/ विस्तार कार्यक्रम प्रमाण पत्र  
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR20231034642

समन्वय का प्रमाणपत्र  
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि **इंटेग्रल विश्वविद्यालय, लखनऊ** कार्यरत **श्री इमरान उल्लाह खान** ने **कृषि में सुदूर संवेदन आधारित आंकड़ों का विश्लेषण** विषय पर इस संस्थान द्वारा दिनांक 26 अक्टूबर, 2023 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला को समन्वित किया।

This is to certify that **DR. IMRAN ULLAH KHAN**, working with **INTEGRAL UNIVERSITY,LUCKNOW-NODAL CENTER**, has coordinated one day online workshop on **Remote sensing based data analytics in Agriculture** conducted by this institute on October 26, 2023

दिनांक/ Date: 28-11-2023  
देहरादून/ Dehradun

प्रमुख,  
नियोक्ता सविसेस, 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



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING  
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION  
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



नामांकन सं./ Enrollment No. : 202310342206987

आई.आई.आर.एस. आउटरीच कार्यक्रम  
IIRS Outreach Programme

कार्यशाला में सहभागिता का प्रमाणपत्र/CERTIFICATE OF PARTICIPATION IN WORKSHOP

यह प्रमाणित किया जाता है कि **MR. MUHAMMAD AZHAR KHAN** ने इस संस्थान द्वारा दिनांक 26 अक्टूबर, 2023 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला, **कृषि में सुदूर संवेदन आधारित आंकड़ों का विश्लेषण** में भाग लिया।

(संबन्धित आई.आई.आर.एस. नोडल केंद्र- इंटेग्रल विश्वविद्यालय, लखनऊ)।

This is to certify that **MR. MUHAMMAD AZHAR KHAN** has participated in one day online workshop titled **Remote sensing based data analytics in Agriculture**, conducted by this institute on **26-10-2023**.

(Concerned IIRS Nodal Centre- INTEGRAL UNIVERSITY,LUCKNOW- NODAL CENTER) .

Date: 28-11-2023  
Place: Dehradun

समन्वयक, विश्वविद्यालय/ संस्थान  
Coordinator, University/ Institution

निदेशक/ Director  
आई.आई.आर.एस., देहरादून/ IIRS, Dehradun

UID: e88685147f0c26d145cf74a3860ba91. This Certificate can be validated using URL- <https://certificate.iirs.gov.in>