

Report on
135- IIRS ISRO Outreach Programme
on
“Geospatial Analysis using Google Earth Engine”
(Human Resource Development Center, Integral University, Lucknow)
February 19-23, 2024

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 135- IIRS ISRO Outreach Programme on **“Geospatial Analysis using Google Earth Engine”** from **February 19-23, 2024** 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.

The "Geospatial Analysis using Google Earth Engine" course, offered by the Indian Institute of Remote Sensing (IIRS), is scheduled from February 19-23, 2024. This free online course covers the basics of geospatial analytics, visualization techniques, and machine learning applications for satellite imagery processing using Google Earth Engine.





Overall, Twenty Seven Participants (Students and Working Professional) attended the program in fully online mode and got benefitted.

Programme Schedule:





S.No.	Date	Topic	Speaker
1.	19.02.2024	Basics of Geospatial Analytics and introduction of GEE interface	Prasun Gupta
2.	20.02.2024	Visualization in GEE: Understanding spectral band combination and plotting spectral response curves.	Ravi Bhandari
3.	21.02.2024	Spectral Indices in GEE: Generating Spectral Indices for extracting various Land Features e.g. vegetation, waterbody etc.	Shailja Mangai
4.	22.02.2024	Image Classification: Machine learning and other techniques for land feature classification	Prasun Gupta
5.	23.02.2024	Data uploading and downloading in GEE for specific area of interest based analysis	Kamal Pandey

Certificates by ISRO:

Institute Certificate by ISRO

	<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>COR2024135642</p>
	<p>संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE</p>	
<p>यह प्रमाणित किया जाता है कि इंटेग्रल विश्वविद्यालय, लखनऊ ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम गूगल अर्थ इंजन का उपयोग करके भू-स्थानिक विश्लेषण में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 2024-02-19 से 2024-02-23 तक किया गया।</p>		
<p>This is to certify that INTEGRAL UNIVERSITY,LUCKNOW- NODAL CENTER, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on Geospatial Analysis using Google Earth Engine. This online programme was conducted during February 19, 2024 to February 23, 2024</p>		
<p>दिनांक/ Date: 13-03-2024 देहरादून/ Dehradun</p>	<p> प्रमुख, बिगोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS</p>	<p> समूह प्रमुख, भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Head, Geospatial Technologies & Outreach Programme Group, IIRS</p>

Coordinator Certificate by ISRO

	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	
	ऑनलाइन दूरस्थ अधिगम कार्यक्रम ONLINE DISTANCE LEARNING PROGRAMME	COR2024135642
	समन्वय का प्रमाणपत्र CERTIFICATE OF COORDINATION	
<p>यह प्रमाणित किया जाता है कि इंटेग्रल विश्वविद्यालय, लखनऊ कार्यरत श्री इमरान उल्लाह खान, ने गूगल अर्थ इंजन का उपयोग करके भू-स्थानिक विश्लेषण विषय पर इस संस्थान द्वारा दिनांक 2024-02-19 से 2024-02-23 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।</p> <p>This is to certify that DR. IMRAN ULLAH KHAN, working with INTEGRAL UNIVERSITY,LUCKNOW-NODAL CENTER, has coordinated the online training course on Geospatial Analysis using Google Earth Engine conducted by this institute during February 19, 2024 to February 23, 2024</p>		
दिनांक/ Date: 13-03-2024 देहरादून/ Dehradun	 प्रमुख, जियोवेब 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

Participant Certificates by ISRO

	अंतरिक्ष विभाग /DEPARTMENT OF SPACE भारत सरकार /GOVERNMENT OF INDIA भारतीय अंतरिक्ष अनुसंधान संगठन /INDIAN SPACE RESEARCH ORGANISATION भारतीय सुदूर संवेदन संस्थान, देहरादून / INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN	
		नामांकन सं. / Enrolment No.: 20241352360989
CERTIFICATE OF ATTENDANCE ONLINE COURSE		
यह प्रमाणपत्र MR. MD MODASSIR RABBANI को " गूगल अर्थ इंजन का उपयोग करके भू-स्थानिक विश्लेषण " में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। इस ऑनलाइन पाठ्यक्रम का आयोजन 2024-02-19 से 2024-02-23 (कुल पाठ्यक्रम की अवधि = 7 घंटे 30 मिनट) के दौरान किया गया। (समन्वित आई.आई.आर.एम.नोडल केंद्र - इंटेग्रल विश्वविद्यालय, लखनऊ)		
THIS CERTIFICATE IS AWARDED TO MR. MD MODASSIR RABBANI ON COMPLETION OF THE ONLINE COURSE ON "Geospatial Analysis using Google Earth Engine" THIS ONLINE COURSE WAS CONDUCTED DURING 19-02-2024 to 23-02-2024 (Total course duration = 7 hrs & 30 minutes). (Concerned IIRS Nodal Centre- INTEGRAL UNIVERSITY,LUCKNOW- NODAL CENTER)		
Attendance: 100 %	 समन्वयक, विश्वविद्यालय/संस्थान Coordinator, University/ Institution	 निदेशक/ Director आई.आई.आर.एस, देहरादून/ IIRS, Dehradun
Date: 26-03-2024 Place: Dehradun		
UID- f8a783855332ba1ba152b5dd9c44548f .This Certificate can be validated using URL- https://certificate.iirs.gov.in		



नार्मांकन सं. / Enrolment No.: 20241352362385



CERTIFICATE OF ATTENDANCE ONLINE COURSE

यह प्रमाणपत्र

MR. KUNVAR SARISH

को " गूगल अर्थ इंजन का उपयोग करके भू-स्थानिक विश्लेषण " में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है।

इस ऑनलाइन पाठ्यक्रम का आयोजन 2024-02-19 से 2024-02-23 (कुल पाठ्यक्रम की अवधि = 7 घंटे 30 मिनट) के दौरान किया गया।

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

THIS CERTIFICATE IS

AWARDED TO

MR. KUNVAR SARISH

ON COMPLETION OF THE ONLINE COURSE ON

"Geospatial Analysis using Google Earth Engine"

THIS ONLINE COURSE WAS CONDUCTED DURING 19-02-2024 to 23-02-2024 (Total course duration = 7 hrs & 30 minutes).

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

Attendance: 100 %

Date: 26-03-2024

Place: Dehradun

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Amran Ullah Khan

समन्वयक, विश्वविद्यालय/संस्थान
 Coordinator, University/ Institution

राजेश्वर सिंह

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

