

**Report on**  
**131- IIRS ISRO Outreach Programme**  
**on**  
**“Geo-data Sharing and Cybersecurity”**  
**(Human Resource Development Center, Integral University, Lucknow)**  
**November 28 to December 11, 2023**

Human Resource Development Centre (HRDC), Integral University Lucknow is 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 131- IIRS ISRO Outreach Programme on “**Geo-data Sharing and Cybersecurity**” from **November 28 to December 11, 2023** for working professionals and students in association with IIRS, ISRO.

The 131<sup>st</sup> Indian Institute of Remote Sensing (IIRS) ISRO Outreach Programme, held from November 28 to December 11, 2023, focused on two critical themes: Geo-data Sharing and Cybersecurity. Hosted by the Indian Space Research Organisation (ISRO), the program aimed to foster collaboration, knowledge exchange, and capacity building among participants in the fields of remote sensing, geospatial data management, and cybersecurity.

**Key Objectives:**

**Promoting Geo-data Sharing:** Encourage the sharing and utilization of geospatial data for various applications, including environmental monitoring, urban planning, agriculture, disaster management, and natural resource management.

**Enhancing Cybersecurity Measures:** Raise awareness about cybersecurity threats and best practices to safeguard sensitive geospatial data and infrastructure against cyberattacks.

**Program Highlights:**

**Lectures and Workshops:** Renowned experts delivered lectures and conducted workshops on topics such as remote sensing techniques, geospatial data analysis, data sharing protocols, encryption methods, and cybersecurity frameworks.

**Case Studies and Demonstrations:** Real-world case studies and demonstrations showcased the practical applications of geospatial data sharing in disaster response, land use mapping, infrastructure development, and climate change mitigation. Additionally, cybersecurity experts demonstrated cyberattack simulations and mitigation strategies to safeguard critical infrastructure.

**Interactive Sessions:** Participants engaged in interactive sessions, panel discussions, and group activities to exchange ideas, share experiences, and address challenges related to geo-data sharing and cybersecurity.

**Networking Opportunities:** The program facilitated networking opportunities for participants to establish professional connections, collaborations, and partnerships with peers, industry experts, and government stakeholders in the fields of remote sensing and cybersecurity.

**Outcomes and Impact:**

**Enhanced Capacity:** Participants gained valuable insights, skills, and knowledge to effectively utilize geospatial data for decision-making and to implement robust cybersecurity measures to protect sensitive information.

**Strengthened Collaboration:** The program fostered collaboration and knowledge exchange among participants from diverse backgrounds, including government agencies, research institutions, academia, industry, and non-governmental organizations (NGOs).

**Promotion of Best Practices:** Participants learned about international best practices, standards, and guidelines for geo-data sharing and cybersecurity, contributing to the development of standardized protocols and frameworks in India.

**Empowerment of Stakeholders:** By empowering stakeholders with the necessary tools and knowledge, the program aimed to accelerate India's progress in leveraging space technology and cybersecurity for socioeconomic development and national security.

The 131<sup>st</sup> IIRS ISRO Outreach Programme served as a platform for promoting geo-data sharing and cybersecurity awareness, fostering collaboration, and building capacity among stakeholders in India's remote sensing and cybersecurity ecosystem. By equipping participants with the requisite skills and knowledge, the program aimed to contribute to India's sustainable development goals and enhance its resilience to cyber threats in an increasingly interconnected world.

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

## Programme Schedule:





S.No.	Date	Course topics	Resource
1.	28 Nov, 2023	Overview of Geo-data Models and Standards	Dr. Harish Karnatak, Head, GIT&DL/IIRS
2.	29 Nov, 2023	Overview of Cyber security- Threats and challenges	Shri. Jigar Raval, Head, CC/PRL
3.	30 Nov, 2023	Demonstration on online Geo-data repositories & Geo-portals	Dr. Kamal Pandey, IIRS
4.	01 Dec, 2023	Geo-data access through Cloud GIS	Shri. Ravi Bhandari, IIRS
5.	04 Dec, 2023	Software tools and products for secure data and information access	Shri. Dharmendra Kumar, IIRS
5.	05 Dec, 2023	Best practices for Cyber Security	Shri. Rohit Tyagi, SAC, Ahmedabad
6.	06 Dec, 2023	Online Geo-data sharing and cyber security	Dr. Harish Karnatak, Head, GIT&DL/IIRS
7.	07 Dec, 2023	Safe transactions and data accessing in web and mobile applications	Dr. Rajiv Chetwani, Director, DISM/ ISRO Hq.
8.	08 Dec, 2023	Network Security Protocols & best practices	Shri. Kishor, NRSC
9.	11 Dec, 2023	Demonstration on Cyber Security tools (NMAP etc.)	Shri. Ashutosh Kumar Jha, IIRS

## Certificates by ISRO:

### Institute 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>	
बहिः परिसर संयुक्त/ विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME		COR2024131642
संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE		
<p>यह प्रमाणित किया जाता है कि <b>इंटेग्रल विश्वविद्यालय, लखनऊ</b> ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम <b>भू-डेटा साझाकरण और साइबर सुरक्षा</b> में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 28 नवंबर, 2023 से 11 दिसंबर, 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>Geo-data sharing and Cyber Security</b>. This online programme was conducted during November 28, 2023 to December 11, 2023</p>		
 दिनांक/ Date: 06-02-2024 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

## Coordinator 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>ऑनलाइन दूरस्थ अधिगम कार्यक्रम ONLINE DISTANCE LEARNING PROGRAMME</p>	<p>COR2024131642</p>
	<p>समन्वय का प्रमाणपत्र CERTIFICATE OF COORDINATION</p>	
<p>यह प्रमाणित किया जाता है कि <b>इंटेग्रल विश्वविद्यालय, लखनऊ</b> कार्यरत <b>श्री इमरान उल्लाह खान</b>, ने <b>भू-डेटा साझाकरण और साइबर सुरक्षा</b> विषय पर इस संस्थान द्वारा दिनांक 28 नवंबर, 2023 से 11 दिसंबर, 2023 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।</p> <p>This is to certify that <b>DR. IMRAN ULLAH KHAN</b>, working with <b>INTEGRAL UNIVERSITY,LUCKNOW-NODAL CENTER</b>, has coordinated the online training course on <b>Geo-data sharing and Cyber Security</b> conducted by this institute during November 28, 2023 to December 11, 2023</p>		
<p>दिनांक/ Date: 06-02-2024 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>

## Participant Certificates by ISRO

	<p>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</p>	
		<p>नामांकन सं. / Enrolment No. : 20231312278339</p>
	<p><b>CERTIFICATE OF ATTENDANCE</b> <b>ONLINE COURSE</b></p> <p>यह प्रमाणपत्र <b>MR. MOHAMMAD MOHSIN</b> को "भू-डेटा साझाकरण और साइबर सुरक्षा" में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। इस ऑनलाइन पाठ्यक्रम का आयोजन 28 नवंबर, 2023 से 11 दिसंबर, 2023 ( कुल पाठ्यक्रम की अवधि = 15 घंटे ) के दौरान किया गया। (संयोजित आई.आई.आर.एस. नोडल केंद्र - इंटेग्रल विश्वविद्यालय, लखनऊ)</p> <p><b>THIS CERTIFICATE IS</b> AWARDED TO <b>MR. MOHAMMAD MOHSIN</b> ON COMPLETION OF THE ONLINE COURSE ON <b>"Geo-data sharing and Cyber Security"</b> THIS ONLINE COURSE WAS CONDUCTED DURING <b>28-11-2023 to 11-12-2023</b> ( Total course duration = 15 hrs ). (Concerned IIRS Nodal Centre- INTEGRAL UNIVERSITY,LUCKNOW- NODAL CENTER)</p>	
<p>Attendance: 90 %</p>	<p> समन्वयक, विश्वविद्यालय/संस्थान Coordinator, University/ Institution</p>	<p> निदेशक/ Director आई.आई.आर.एस, देहरादून/ IIRS, Dehradun</p>
<p>Date: 07-02-2024 Place: Dehradun UID- 515887edd8a9aa27d3bf0ad59e938509. This Certificate can be validated using URL- <a href="https://certificate.iirs.gov.in">https://certificate.iirs.gov.in</a></p>		





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. : 20231312281504



## CERTIFICATE OF MERIT ONLINE COURSE

यह प्रमाणपत्र

**MR. SUNEEL**

को " भू-डेटा साझाकरण और साइबर सुरक्षा "

में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है।

इस ऑनलाइन पाठ्यक्रम का आयोजन 28 नवंबर, 2023 से 11 दिसंबर, 2023 ( कुल पाठ्यक्रम की अवधि = 15 घंटे ) के दौरान किया गया।

(संबन्धित आई.आई.आर.एम. नोडल केंद्र- इंटैग्रल विश्वविद्यालय, लखनऊ )

**THIS CERTIFICATE IS**

AWARDED TO

**MR. SUNEEL**

ON COMPLETION OF THE ONLINE COURSE ON

**"Geo-data sharing and Cyber Security"**

THIS ONLINE COURSE WAS CONDUCTED DURING 28-11-2023 to 11-12-2023 ( Total course duration = 15 hrs ).

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

Online Exam Grade: **A+**

Attendance: **100 %**

*Amran Ullah Khan*

समन्वयक, विश्वविद्यालय/संस्थान  
 Coordinator, University/ Institution

*राधेन्द्र सिंह*

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

Date: 07-02-2024

Place: Dehradun

UID: 9043419a4b3827eb0e1b635b4380f44a .This Certificate can be validated using URL: <https://certificate.iirs.gov.in>

\*>80% -(A+), 70-80% -(A), 60-70% -(B+), 40-60% -(B)

GOVERNMENT OF INDIA  
 INDIAN INSTITUTE OF REMOTE SENSING  
 Indian Space Research Organisation

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सत्यमेव जयते

इसरो IIRS

Azadi Ka  
 Amrit Mahotsav

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 2023 INDIA

## Geo-data sharing and Cyber Security

November 28 - December 11, 2023

0:18 / 3:32 • Introduction

Scroll for details



Ann sought to implement a few cybersecurity practices