

Report on
128- IIRS ISRO Outreach Programme
on
“Overview of Geo-Computation and Geo-web Services”
(Human Resource Development Center, Integral University, Lucknow)
October 30 to November 3, 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 128-IIRS ISRO Outreach Programme on **“Overview of Geo-Computation and Geo-web Services”** from **October 30 to November 3, 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.

The objective of the programme is to provide Analyzing spatial data using computational techniques. Developing algorithms for geographic information systems (GIS). Implementing geospatial modeling and simulation. Providing access to geospatial data over the internet. Facilitating the integration of mapping and location-based services. Ensuring interoperability of geospatial information across web applications.

Main Topics covered during programme are;

- Open Geodata Repositories & ISRO Geo-web Services for thematic applications
- Introduction to Geo-computation, Online GIS and Geo-web services
- Programming concepts for Geo-computation
- Overview of Web-GIS and application
- Introduction to Cloud based geospatial data processing

Overall, Twenty Six Participants (Students and Working Professional) attended the program and got benefitted.

Programme Schedule:

Date	Day	Topic	Speaker
October 30, 2023	Monday	Introduction to Geocomputation, Online GIS and Geo-web services Interactive Session	Dr. Harish Karnatak
October 31, 2023	Tuesday	Open Geodata Repositories & ISRO Geoweb Services for thematic applications Interactive Session	Mr. Kamal Pandey
November 01, 2023	Wednesday	Programming concepts for Geo-computation - Introduction to Python and R Interactive Session	Mr. Ravi Bhandari
November 02, 2023	Thursday	Overview of WebGIS and application development Interactive Session	Mr. Kamal Pandey
November 03, 2023	Friday	Demonstration on Introduction to Cloud based geospatial data processing Interactive Session	Mr. Ravi Bhandari

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/ऑफिस/संस्था/विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME</p>	<p>COR2024128642</p>
	<p>संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE</p>	
<p>यह प्रमाणित किया जाता है कि इंटीग्रल विश्वविद्यालय, लखनऊ ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम जियोकम्प्यूटेशन एवं जियोवेब सर्विसेस का अवलोकन में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 30 अक्टूबर, 2023 से 03 नवंबर, 2023 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 Dehardun on Overview of Geocomputation and Geo-web services. This online programme was conducted during October 30, 2023 to November 03, 2023</p>		
<p>दिनांक/ Date: 06-01-2024 देहरादून/ Dehradun</p>	<p>प्रमुख, जियोवेब 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	COR2024128642
	समन्वय का प्रमाणपत्र CERTIFICATE OF COORDINATION	
<p>यह प्रमाणित किया जाता है कि इंटेग्रल विश्वविद्यालय, लखनऊ कार्यरत श्री इमरान उल्लाह खान, ने जियोकम्प्यूटेशन एवं जियोवेब सर्विसेस का अवलोकन विषय पर इस संस्थान द्वारा दिनांक 30 अक्टूबर, 2023 से 03 नवंबर, 2023 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 Overview of Geocomputation and Geo-web services conducted by this institute during October 30, 2023 to November 03, 2023</p>		
दिनांक/ Date: 06-01-2024 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.: 20231282207173
CERTIFICATE OF ATTENDANCE ONLINE COURSE		
यह प्रमाणपत्र MR. DANYAL HUSSAIN को " जियोकम्प्यूटेशन एवं जियोवेब सर्विसेस का अवलोकन " में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। इस ऑनलाइन पाठ्यक्रम का आयोजन 30 अक्टूबर, 2023 से 03 नवंबर, 2023 (कुल पाठ्यक्रम की अवधि = 7 घंटे 30 मिनट) के दौरान किया गया। (संबन्धित आई.आई.आर.एस नोडल केंद्र- इंटेग्रल विश्वविद्यालय, लखनऊ)		
THIS CERTIFICATE IS AWARDED TO MR. DANYAL HUSSAIN ON COMPLETION OF THE ONLINE COURSE ON "Overview of Geocomputation and Geo-web services" THIS ONLINE COURSE WAS CONDUCTED DURING 30-10-2023 to 03-11-2023 (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: 09-01-2024 Place: Dehradun		
UID- 1e108b5f2a296270f89ab9c5636ce683 .This Certificate can be validated using URL- https://certificate.iirs.gov.in		