Report on 7014- IIRS ISRO Outreach Programme

on

"RS and GIS Applications in Atmospheric and Oceanic Hazards" (Human Resource Development Center, Integral University, Lucknow) February 27 to March 3, 2023

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. HRDC has successfully organized the 7014- IIRS ISRO Outreach Programme on "RS and GIS Applications in Atmospheric and Oceanic Hazards" from February 27 to March 3, 2023 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) 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 technical sessions constituted of a wide variety of topics taken by a team of expert's viz.:

Day	Time	Topic	Speaker
	15:00-16:00hrs.	Introduction to Atmospheric	Dr. D. Mitra
		and Oceanic Hazards	
Monday	16:00-17:30hrs		Dr. C.M. Kishtawal
		Atmospheric and Oceanic	
		Hazards Studies	
	15:00-16:00hrs.	Applications of Satellite Data	Dr. Charu Singh
		for the Study of Extreme	
Tuesday		Rainfall Events	
Tuesday			
	16:00-17:30hrs	Gaseous Air Pollutants:	Dr. Shuchita Srivastava
		Monitoring and Modeling	
	15:00-16:00hrs.	Tsunami Modelling and Coastal	Dr. Siva Srinivas K.
		Inundation	
Wednesday			
	16:00-17:30hrs	Application of Satellite Data for	Dr. S.K. Singh
		Tropical Cyclones Studies	
	15:00-16:00hrs.	Satellite Based Monitoring of	Dr. Yogesh Kant
TD1 1		Aerosol Particulate Matter	
Thursday			
	16:00-17:30hrs	Satellite Data Based Fog	Ms. Pooja Jindal
	Monday	15:00-16:00hrs. Monday 16:00-17:30hrs 15:00-16:00hrs. Tuesday 16:00-17:30hrs 15:00-16:00hrs. Wednesday 16:00-17:30hrs 15:00-16:00hrs. Thursday	Monday 16:00-17:30hrs Overview of Earth Observation Satellites and Sensors for Atmospheric and Oceanic Hazards Studies 15:00-16:00hrs. Applications of Satellite Data for the Study of Extreme Rainfall Events 16:00-17:30hrs Gaseous Air Pollutants: Monitoring and Modeling 15:00-16:00hrs. Tsunami Modelling and Coastal Inundation Wednesday 16:00-17:30hrs Application of Satellite Data for Tropical Cyclones Studies 15:00-16:00hrs. Satellite Based Monitoring of Aerosol Particulate Matter

			Estimation and Analysis	
		15:00-16:00hrs.	Overview of Storm Surge	Prof. A. D. Rao
03/03/2023	Friday	16:00-17:30hrs	Geo-web Portals for Disaster	Mr. C.M. Bhatt
			Management Support and	
			Applications	

Participants learned a lot about RS and GIS Applications in Atmospheric and Oceanic Hazards in these program 26 participants attended this outreach program.

Institute, Coordinator and Participant Certificate by ISRO:





भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंघान संगठन/ INDIAN SPACE RESEARCH ORGANISATION



अंतरिक्ष विमाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

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OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME
समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

बहि: परिस्य संपर्क / विस्तार कार्यक्रम प्रमाण पत्र

यह प्रमाणित किया जाता है कि इंटेग्रल विश्वविद्यालय, लखनऊ कार्यरत श्री इमरान उल्लाह सान, ने वायुमंडलीय और महासागरीय स्वतरों में आरएस और जीआईएस का अनुप्रयोग विषय पर इस संस्थान द्वारा दिनांक 27 फरवरी, 2023 से 03 मार्च, 2023 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **DR. IMRAN ULLAH KHAN**, working with **INTEGRAL UNIVERSITY,LUCKNOW-NODAL CENTER**, has coordinated the online training course on **RS and GIS applications in Atmospheric and Oceanic Hazards** conducted by this institute during February 27, 2023 to March 03, 2023

दिनाँक/ Date: 17-03-2023

- Santasi

अपुज, जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग Head, Geoweb Services, IT & Distance Learning Department, IIRS Sgranal

भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समृह

Group Head, Geospatial Technologies & Outreach Programme Group, IIRS



भारत सरकार अंतरिक्ष विभाग भारतीय अंतरिक्ष अनुसंधान संगठन भारतीय सुद्र संवेदन संस्थान, देहरादून





Date: 20-03-2023

GOVERNMENT OF INDIA DEPARTMENT OF SPACE INDIAN SPACE RESEARCH ORGANISATION INDIAN INSTITUTE OF REMOTE SENSING, DEHRADUN

नामांकन सं. / Enrollment No.: 202370141810295

CERTIFICATE OF PARTICIPATION IN

ONLINE COURSE



यह प्रमाणित किया जाता है कि MR. AMAN PRATAP SINGH को यह प्रमाण पत्र " àमµàम¾àम⁻à¥□àम®à¤,डलीà¤⁻à¤″महासागरीà¤⁻ à¤-तरà¥⟨à¤, मà¥ţà¤, à¤fरà¤□à¤, à¤″रजीà¤fईa¤□à¤, रा à¤...नà¥□ळà¥□रà¤⁻ोग " ऑनलाइन पाठचक्रम में भाग लेने पर प्रदान किया जाता है। इस ऑनलाइन पाठचक्रम का आयोजन 27 फरवरी, 2023 से 03 मारà¥□च, 2023 (कुल पाठचक्रम की अविध = 15 घंटे) के दौरान किया गया। सियन्थित आई.आई.आर.एस नोडल केंद्र- à¤≴à¤,टà¥åa¤—à¥□रàå¤

This is to certify that MR. AMAN PRATAP SINGH has been awarded this certificate on participation of online course on "RS and GIS applications in Atmospheric

and Oceanic Hazards" which was conducted during 27-02-2023 to 03-03-2023 (Total course duration = 15 hrs).

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

Amran Ullah Khan

समन्वयक, विश्वविद्यालय/संस्थान

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राज्येन्द्र कि

निदेशक/ Director आई०आई०आर०एस, देहरादून/ IIRS, Dehradun

UID- 480b3eacc678f121f2ab563b83ad0437 .This Certificate can be validated using URL- https://certificate.lirs.gov.ir