



SNJB's

Shri. Hiralal Hastimal (Jain Brothers) Polytechnic, Chandwad

(All AICTE Approved Programs NBA accredited)

IIRS-ISRO Outreach Program

Academic year: 2025-2026

SNJB's Shri. Hiralal Hastimal (Jain Brothers) Polytechnic Chandwad. Di: Nashik. MS. is proud to partner as a Network Institute for Indian Institute of Remote Sensing (IIRS) Outreach Programme, ISRO Dehradun, Dept. of Space, Govt. of India. The use of Remote Sensing, Geographical Information System, Global Navigation Satellite System and associated geospatial technologies is increasing rapidly, creating an urgent demand for trained manpower.

IIRS Outreach Programme focuses on strengthening the academia in Space Technology & its Applications using online learning platform to enhance your knowledge in the field of Remote Sensing, GIS, GNSS technologies and applications.

Aim: To provide an opportunity for individuals to learn Remote Sensing and Geoinformation Science for the benefit of their professional career, by joining the Outreach Program of the Indian Institute Remote Sensing, IIRS-ISRO Dehradun through our institute.

Objective: The major objective of IIRS Distance Learning Programme is: Mass scale capacity for Enhanced Utilization of Space Technology through Live & Interactive and E-learning/MOOC mode of online training.

Patron

Hon. Arvindji Bhansali (Trustee Vishwast Mandal)
Hon. Rajkumarji Bumb (Member of Prabandh Samiti)

Convenor

Dr. Vishal Wankhede (The Principal)

Coordinator

Mr. Dipak Pawar (HOD CE)

Action Taken: SNJB's Shri. Hiralal Hastimal (Jain Brothers) Polytechnic Chandwad is Network Institute for outreach program centre from Indian Institute Remote Sensing, IIRS-ISRO Dehradun, on 03rd Sep 2024.

This basic course in Remote Sensing and Geoinformation Science will allow graduates to build their knowledge and practical expertise in RS and GIS technologies with independent study and project experience at the certificate level.

E-learning mode: The e-learning courses are self-paced and learner centric and targets professionals, academia and research community to enhance their knowledge in remote sensing and geospatial technology using online simulated learning contents.

1. Image Statistics
 2. Basics of Remote Sensing
 3. Geographical Information System
 4. Global Navigation Satellite
- IIRS official website- www.iirs.gov.in

Reception of the program

All the courses of IIRS DLP are made available through in-house developed **Electronic Collaborative Learning and Knowledge Sharing System (E-CLASS)** platform which enables various innovative learning tools to the participants such as attend the live sessions, post queries, download study material, attend offline sessions, appear for online examinations and download course certificate etc.

Target Participants:

- ✓ Student of Undergraduate and Postgraduate courses (any year);
- ✓ Technical/ Scientific Staff of Central/ State Government Ministries/ Departments;
- ✓ Faculty / Researchers at university / Institutions.

Course Fee: There is no course fee. It's absolutely a free of cost programme.

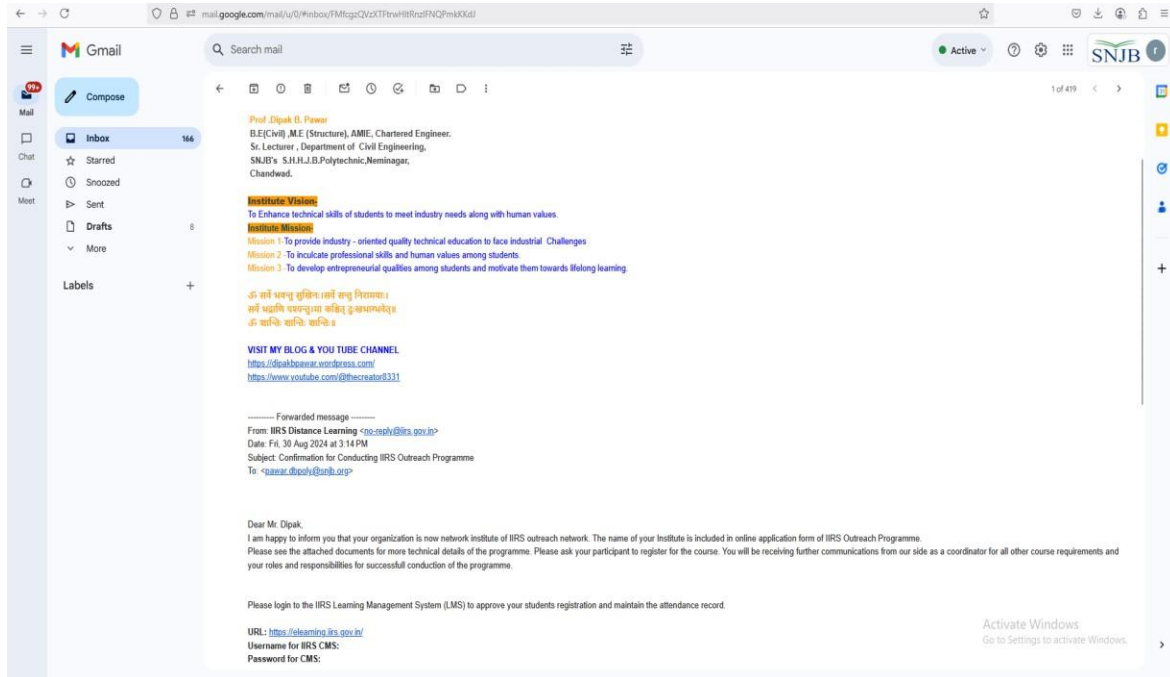
Award of Certificate:

- Working Professionals: Based on 70% attendance and submission of assignments.
- Students: Based on 70% attendance and online examination

SNJB's Shri. Hiralal Hastimal (Jain Brothers) Polytechnic Chandwad
As a Nodal Institute

The institute has sent an official letter to The Director, IIRS ISRO, Dehradun requesting willingness for participating in IIRS Outreach Programme. Mr. D. B. Pawar, Head of Civil Engineering Department was appointed as focal person/coordinator to participate in IIRS Outreach Programme from the Institute.

An acknowledgement and confirmation was sent from Dr. Harish Chandra Karnatak, Head, GIT& DL Department RSGG, IIRS/ISRO, Dehradun on 24th Aug 2024 that now this institute is the network institute of IIRS. The mail was sent to the course coordinator, Mr D.B. Pawar.



In the session 2025-26 institute conducted following courses successfully.

Course ID-1049: Mapping and Monitoring Greenhouse Gases through Space”

Duration September 02, 2025

IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 3900+ network institutes. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- Geospatial Industries
- NGOs

Feedback Mechanism

IIRS takes continuous feedback from participating institutions to improve the quality of future courses.



Feedback session during IIRS User Academia Meet (IAM) 2025

Awards

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP). IIRS has also received National Geospatial Enabler Award, 2025 by Ministry of Education, Govt. of India at IIT Bombay.



About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up for developing trained professionals in the field of Remote Sensing, Geoinformatics 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. While nurturing its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capability and evolved many training and education programmes that are tuned to meet the requirements of various target groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (<http://elearning.iirs.gov.in>).

Contact Details

Dr. Harish Kamatak
Head, GIT & DL Dept.

Dr. Poonam S. Tiwari
Programme Coordinator
IIRS Outreach Programme

Dr. Asfa Siddiqui
Workshop Coordinator
Scientist SE, Urban and Regional Studies
Department

IIRS DLP Team
Mr. Janardan Vishwakarma
&

Mr. Ashok Ghildiyal
Tel: 0135-2524130/4120
Email: dlp@iirs.gov.in

Indian Institute of Remote Sensing,
Indian Space Research Organisation
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun

1049th IIRS Outreach Programme



One Day Online Workshop on Mapping and Monitoring Greenhouse Gases through Space

September 02, 2025



Organised by

Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun

www.iirs.gov.in

About the Workshop	Topics of the Workshop	Workshop Funding & Technical Support
Greenhouse gases, especially CO ₂ and CH ₄ are amongst the primary contributors of anthropogenic climate change. Methane (CH ₄), a potent greenhouse gas, has a global warming potential over 28 times and 84 times greater than CO ₂ over a 100-year and 20-year period, respectively. In the wake of rising global emissions and escalating climate impacts, monitoring GHGs is vital for effective climate action, policy development, and accountability. Satellite based methods of GHG retrieval rely on shortwave infrared (SWIR) and thermal infrared (TIR) bands to detect atmospheric methane through absorption spectroscopy. This workshop will systematically provide an overview of the physics behind retrieval of gas house gases from different airborne/space-borne platforms, impacts on health, and several case studies. We invite you to attend this workshop on "Mapping and Monitoring Greenhouse Gases through Space" scheduled on September 02, 2025.	Topics to be covered in the workshop: • <i>Space based measurements of GHGs: Principles and linkage to Climate Change</i> • <i>Air Quality & Human health in India</i> • <i>Retrieval algorithms for greenhouse gas monitoring</i> • <i>Detection of CO₂ using airborne and space-borne imaging spectroscopy</i> • <i>Methane mapping & monitoring through Space</i>	The workshop is sponsored by Indian Space Research Organisation, Department of Space, Government of India.
Target Participants	Workshop Fee	Programme Reception
Participants interested in attending the workshop can be Professionals from Central / State Govt. / Private Organizations / NGOs, researchers and students (under graduation and above) aligned to research in Remote Sensing and Image Analysis.	There is no fee for attending this workshop.	• The workshop can be attended through e-class platform of IIRS-ISRO using internet connectivity. No specific hardware/software required. However, it is recommended good internet connectivity at user end. To run the programme in class room, following hardware will be required: • Desktop computer with web camera microphone and output speakers or laptop with microphone camera and output speaker. • Large display screen/projector/TV.
Expected Outcome	Workshop Registration	Important links
The proposed workshop explores the potential of geospatial technology for greenhouse gas monitoring and retrieval through airborne and spaceborne platforms. It will provide a holistic understanding of the physics behind the measurement of GHGs, impact on human health and retrieval algorithms for GHGs through experienced faculty.	Workshop updates and other details will be available on URL- http://www.iirs.gov.in/EduSat-News/ Registered "through Nodal centres": • The participant's registration must be approved by the coordinator of nodal centers. • The participants can register and see their application status through URL- https://elearning.iirs.gov.in/edusatregistration/ • In case, the application is pending for approval then participants are advised to contact the coordinator of respective nodal center. Registered as "Individual registrations": The participants with individual registration will be automatically approved. All the registered participants will get their login credentials for ISRO Learning Management System (LMS)- https://isrolms.iirs.gov.in. There are a limited number of seats. Registration will be done on a first-come, first-served basis.	To participate in this programme the interested organisations/universities/departments/institutes shall identify coordinators who will register online his/her institute as nodal centre in IIRS website (https://elearning.iirs.gov.in/edusatregistration/coordinator)
		Award of Certificate
		Registered through Nodal centres : Based on the attendance, participants will be awarded a "Workshop Participation Certificate." Individual Registration: A certificate for "Workshop Participation" will be awarded to everyone who devotes at least 50% of the total session's hours of the workshop. The certificate will be available on the ISRO LMS platform.

Staff and students were admitted, successfully completed mentioned course

Sr. No.	Application ID	Name of Participant	Status- Successfully completed and Certificate issued
1	202510492834195	SAGAR ANIL AHER	Certificate issued
2	202510492834198	Sakshi Bagul	Certificate issued
3	202510492834209	Pranjal Shivaji Chavan	Certificate issued
4	202510492834213	Nayana Sachin Gade	Certificate issued
5	202510492834231	Siddhesh	Certificate issued
6	202510492835005	Bhairavi Kakvipure	Certificate issued
7	202510492834242	Yash Subhash Nirbhavane	Certificate issued
8	202510492834253	Akshara Gokul Shewale	Certificate issued
9	202510492835025	Swamini Mohite	Certificate issued
10	202510492847065	Ganesh Bhure	Certificate issued

11	202510492832990	Harshal Bachhav	Certificate issued
12	202510492835041	Mansi Gunjal	Certificate issued
13	202510492834293	Samiksha Shinde	Certificate issued
14	202510492835070	Divya Thakare	Certificate issued
15	202510492833027	Purva Kailas Bhamare	Certificate issued
16	202510492833030	Swayam	Certificate issued
17	202510492836882	Rutuja Nikhil Bachhav	Certificate issued
18	202510492834324	Sakshi Shravan Shinde	Certificate issued
19	202510492833046	Anushka Dilip Ahire	Certificate issued
20	202510492834070	Aniket Sathe	Certificate issued
21	202510492833047	Dnyaneshwari Dattatray Kambale	Certificate issued
22	202510492834072	Aware Vaishnavi Sanjay	Certificate issued
23	202510492834329	Samiksha Borse	Certificate issued
24	202510492834077	Pranav Pravin Ahire	Certificate issued
25	202510492835107	Shubhada Pawar	Certificate issued
26	202510492836904	Ankita Pravin Vakte	Certificate issued
27	202510492834359	Sakshi Rajendra Mali	Certificate issued
28	202510492834107	Shubham Deepak Goyal	Certificate issued
29	202510492834363	Khushi Wagh	Certificate issued
30	202510492834110	Yogesh Pawar	Certificate issued
31	202510492847168	MAHALE YOGESH MADHAV	Certificate issued

After the completion of the course a certificate was awarded to the Institution and the Coordinator, also certificates are issued for the staff and students .



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

COR2025104921402

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि एस एन जे बी , श्री हिरालाल हस्तीमल (जैन ब्रदर्स , जळगाव) पॉलीटेक्निक , चांदवड ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम **अंतरिक्ष के माध्यम से ग्रीनहाउस गैसों का मानचित्रण और निगरानी** में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 2025-09-02 से 2025-09-02 तक किया गया।

This is to certify that **SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on **Mapping and Monitoring Greenhouse Gases through Space**, during September 02, 2025 to September 02, 2025.

दिनांक/ Date: 10-09-2025
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



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

COR2025104921402

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि एस एन जे बी , श्री हिरालाल हस्तीमल (जैन ब्रदर्स , जळगाव) पॉलीटेक्निक , चांदवड कार्यरत श्री दीपक बालासाहेब पवार ने अंतरिक्ष के माध्यम से ग्रीनहाउस गैसों का मानचित्रण और निगरानी विषय पर इस संस्थान द्वारा दिनांक 2025-09-02 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला को समन्वित किया।

This is to certify that **MR. DIPAK BALASAHEB PAWAR**, working with **SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic**, has coordinated one day online workshop on **Mapping and Monitoring Greenhouse Gases through Space** conducted by this institute on September 02, 2025

दिनांक/ Date: 10-09-2025
देहरादून/ Dehradun

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

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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.: 202510492836936

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. RAMESH RAJENDRA KOTWAL
ने इस संस्थान द्वारा दिनांक 2025-09-02 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,
अंतरिक्ष के माध्यम से ग्रीनहाउस गैसों का मानचित्रण और निगरानी
में भाग लिया।
(संबन्धित आई.आई.आर.एस. नोडल केंद्र- एस एन जे बी , श्री हिरालाल हस्तीमल (जैन ब्रदर्स , जळगाव) पॉलीटेक्निक , चांदवड)

This is to certify that
MR. RAMESH RAJENDRA KOTWAL
has participated in one day online workshop titled
Mapping and Monitoring Greenhouse Gases through Space
conducted by this institute on **02-09-2025**.
(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 10-09-2025
Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution

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

UID: e6ba9d770fdc647bde9944a9ea2be48f .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



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.: 202510492836882

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

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यह प्रमाणित किया जाता है कि

MRS. RUTUJA NIKHIL BACHHAV

ने इस संस्थान द्वारा दिनांक **2025-09-02** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,

अंतरिक्ष के माध्यम से ग्रीनहाउस गैसों का मानचित्रण और निगरानी

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(संबन्धित आई.आई.आर.एस नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांभवड)

This is to certify that

MRS. RUTUJA NIKHIL BACHHAV

has participated in one day online workshop titled

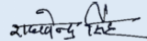
Mapping and Monitoring Greenhouse Gases through Space

conducted by this institute on **02-09-2025.**

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 10-09-2025
Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution


निदेशक/Director
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

UID: 27e247ca635f459991032c4c570e912b .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



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.: 202510492832990

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

कार्यशाला में सहभागिता का प्रमाणपत्र/CERTIFICATE OF PARTICIPATION IN WORKSHOP

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MR. HARSHAL BACHHAV

ने इस संस्थान द्वारा दिनांक **2025-09-02** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,

अंतरिक्ष के माध्यम से ग्रीनहाउस गैसों का मानचित्रण और निगरानी

में भाग लिया।

(संबन्धित आई.आई.आर.एस नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांभवड)

This is to certify that

MR. HARSHAL BACHHAV

has participated in one day online workshop titled

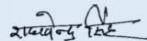
Mapping and Monitoring Greenhouse Gases through Space

conducted by this institute on **02-09-2025.**

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 10-09-2025
Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution


निदेशक/Director
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

UID: 5eb676818c6f1be20d1b29c76b5c0f36 .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



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.: 202510492834072

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

MS. AWARE VAISHNAVI SANJAY

ने इस संस्थान द्वारा दिनांक **2025-09-02** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,
अंतरिक्ष के माध्यम से ग्रीनहाउस गैसों का मानचित्रण और निगरानी
में भाग लिया।

(संबन्धित आई.आई.आर.एस. नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांदवड)

This is to certify that

MS. AWARE VAISHNAVI SANJAY

has participated in one day online workshop titled

Mapping and Monitoring Greenhouse Gases through Space

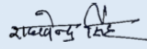
conducted by this institute on **02-09-2025**.

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 10-09-2025

Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution


निदेशक/Director
आई०आई०आर०एस, देहरादून/IIRS, Dehradun

UID: 66ec585ab5fed9fc169a26c0483a5ddc .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>

Conducted on 09 Sept 2026

“
ब्रह्मांड की उत्पत्ति सौर
मंडल की खोज

संपर्क विवरण

कार्यक्रम समन्वयक
डॉ. पूनम एस. तिवारी

IIRS डीएलपी टीम

श्री जनार्दन विश्वकर्मा
एवं

श्री अशोक धिल्लियल

दूरभाष: 0135-2524130

ईमेल: dlp@iirs.gov.in

आयोजक

भारतीय सुदूर संवेदन संस्थान
भारतीय अंतरिक्ष अनुसंधान संगठन
अंतरिक्ष विभाग, भारत सरकार
4, कालिदास मार्ग, देहरादून - 248001

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज



जनवरी 09, 2026

www.iirs.gov.in

कार्यशाला के बारे में

यह कार्यशाला ब्रह्मांड की उत्पत्ति तथा सौर मंडल की खोज से संबंधित मूलभूत एवं वैज्ञानिक अवधारणाओं पर केंद्रित है। कार्यशाला के दौरान प्रतिभागियों को ब्रह्मांड के जन्म, उसके विस्तार, आकाशगंगाओं, तारों एवं ग्रहों के निर्माण की प्रक्रिया के बारे में जानकारी दी जाएगी।

साथ ही, सौर मंडल की संरचना, ग्रहों, उपग्रहों, क्षुद्रग्रहों तथा धूमकेतुओं के अध्ययन के साथ-साथ अंतरिक्ष अन्वेषण में उपयोग की जाने वाली आधुनिक तकनीकों एवं अंतरिक्ष मिशनों का परिचय भी कराया जाएगा। यह कार्यशाला विद्यार्थियों एवं शिक्षकों में अंतरिक्ष विज्ञान के प्रति वैज्ञानिक दृष्टिकोण, जिज्ञासा और रुचि को बढ़ावा देने का उद्देश्य रखती है।

कार्यशाला की विषयवस्तु एवं रूपरेखा

यह ऑनलाइन कार्यशाला निम्नलिखित विषयों को शामिल करेगी:

- पृथ्वी के बाहर जीवन
- सूर्य, हमारा निकटतम तारा
- ब्रह्मांड की उत्पत्ति
- समापन एवं प्रतिभागियों से संवाद

पाठ्यक्रम का उद्देश्य

इस पाठ्यक्रम का उद्देश्य प्रतिभागियों को ब्रह्मांड की उत्पत्ति, सौर मंडल की संरचना तथा अंतरिक्ष विज्ञान की मूल अवधारणाओं से परिचित कराना है, जिससे उनमें वैज्ञानिक सोच, जिज्ञासा एवं अंतरिक्ष अन्वेषण के प्रति रुचि विकसित हो सके।

पाठ्यक्रम पंजीकरण

- पाठ्यक्रम से संबंधित अद्यतन एवं अन्य विवरण निम्नलिखित URL पर उपलब्ध होंगे:

<http://www.iirs.gov.in/EduSat-News/>

- नोडल केंद्रों के माध्यम से पंजीकरण:

प्रतिभागियों का पंजीकरण नोडल केंद्र के समन्वयक (Coordinator) द्वारा अनुमोदित किया जाना अनिवार्य है। प्रतिभागी निम्नलिखित URL के माध्यम से पंजीकरण कर सकते हैं तथा अपने आवेदन की स्थिति देख सकते हैं।

<https://elearning.iirs.gov.in/edusatregistration/>

- यदि आवेदन अनुमोदन हेतु लंबित है, तो प्रतिभागियों को संबंधित नोडल केंद्र के समन्वयक से संपर्क करने की सलाह दी जाती है।

- “व्यक्तिगत पंजीकरण (Individual Registration)” के रूप में पंजीकृत प्रतिभागी:

व्यक्तिगत पंजीकरण करने वाले प्रतिभागियों का पंजीकरण स्वतः अनुमोदित हो जाएगा।

सभी पंजीकृत प्रतिभागियों को ISRO लर्निंग मैनेजमेंट सिस्टम (LMS) के लिए लॉगिन विवरण निम्नलिखित URL के माध्यम से प्रदान किया जाएगा:

<https://isrolms.iirs.gov.in>

महत्वपूर्ण लिंक

इस कार्यक्रम में भाग लेने के लिए इच्छुक संगठन/विश्वविद्यालय/विभाग/संस्थान को अपने स्तर पर एक समन्वयक (Coordinator) नामित करना होगा।

नामित समन्वयक को IIRS की वेबसाइट पर अपने संस्थान को नोडल केंद्र (Nodal Centre) के रूप में ऑनलाइन पंजीकृत करना होगा।

पंजीकरण हेतु लिंक:

<https://elearning.iirs.gov.in/edusatregistration/coordinator>

प्रमाण पत्र प्रदान करने की व्यवस्था

नोडल केंद्रों के माध्यम से पंजीकरण:

70% उपस्थिति के आधार पर विद्यार्थियों को “कोर्स सहभागिता प्रमाण पत्र (Course Participation Certificate)” प्रदान किया जाएगा।

व्यक्तिगत पंजीकरण (Individual Registration): जो प्रतिभागी प्रत्येक सत्र के कुल समय का न्यूनतम 70% भाग कोर्स को समर्पित करेंगे, उन्हें “कोर्स सहभागिता प्रमाण पत्र” प्रदान किया जाएगा।

यह प्रमाण पत्र ISRO लर्निंग मैनेजमेंट सिस्टम (LMS) में डाउनलोड हेतु उपलब्ध रहेगा।

Staff and students were admitted, successfully completed mentioned course

Sr. No.	Application ID	Name of Participant	Status- Successfully completed and Certificate issued
1	202610532924310	SAKSHI VINAYAK JADHAV	Certificate issued
2	202610532924338	Aniket Sathe	Certificate issued
3	202610532924340	KALE KUNAL KEWAL	Certificate issued
4	202610532924343	Rajendra Balu Bagul	Certificate issued
5	202610532924352	Yogesh Pawar	Certificate issued
6	202610532924353	Yash Subhash Nirbhavane	Certificate issued
7	202610532924354	Pranav Pravin Ahire	Certificate issued
8	202610532924356	Harshal Bachhav	Certificate issued
9	202610532924360	Swayam Deore	Certificate issued
10	202610532924361	Mit Nilesh Dungarwal	Certificate issued
11	202610532924363	Siddharth Nikam	Certificate issued
12	202610532924411	Ajinkya Anil Kolhe	Certificate issued
13	202610532924257	Rushikesh Avdhut Ahirrao	Certificate issued
14	202610532924258	Ramesh Rajendra Kotwal	Certificate issued
15	202610532924261	Nivrutti Ratan Savandre	Certificate issued
16	202610532924262	Sanket Rajendra Vyavahare	Certificate issued
17	202610532924263	Aayush Amol Vaidya	Certificate issued
18	202610532924268	Sakshi Rajendra Mali	Certificate issued
19	202610532924269	Vedika Laxman Thakare	Certificate issued
20	202610532924271	Sakshi Shravan Shinde	Certificate issued
21	202610532924531	Shraddha Rajendra Kawat	Certificate issued

After the completion of the course a certificate was awarded to the Institution and the Coordinator, also certificates are issued for the staff and students .

	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		COR2026105321402
संस्थान की सहभागिता का प्रमाण पत्र CERTIFICATE OF PARTICIPATION OF INSTITUTE		
यह प्रमाणित किया जाता है कि एस एन जे बी , श्री हिरालाल हस्तीमल (जैन ब्रदर्स , जळगाव) पॉलीटेक्निक , चांदवड ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम ब्रह्मांड की उत्पत्ति सौर मंडल की खोज में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 2026-01-09 से 2026-01-09 तक किया गया। This is to certify that SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on ब्रह्मांड की उत्पत्ति सौर मंडल की खोज, during January 09, 2026 to January 09, 2026.		
दिनांक/ Date: 02-02-2026 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

	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		COR2026105321402
समन्वय का प्रमाणपत्र CERTIFICATE OF COORDINATION		
यह प्रमाणित किया जाता है कि एस एन जे बी , श्री हिरालाल हस्तीमल (जैन ब्रदर्स , जळगाव) पॉलीटेक्निक , चांदवड कार्यरत श्री दीपक बालासाहेब पवार ने ब्रह्मांड की उत्पत्ति सौर मंडल की खोज विषय पर इस संस्थान द्वारा दिनांक 2026-01-09 को आयोजित एक दिवसीय ऑनलाइन कार्यशाला को समन्वित किया। This is to certify that MR. DIPAK BALASAHEB PAWAR, working with SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic, has coordinated one day online workshop on ब्रह्मांड की उत्पत्ति सौर मंडल की खोज conducted by this institute on January 09, 2026		
दिनांक/ Date: 02-02-2026 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



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.: 202610532924258

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. RAMESH RAJENDRA KOTWAL

ने इस संस्थान द्वारा दिनांक **2026-01-09** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

में भाग लिया।

(संबन्धित आई.आई.आर.एस. नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांबवड)

This is to certify that

MR. RAMESH RAJENDRA KOTWAL

has participated in one day online workshop titled

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

conducted by this institute on **09-01-2026**.

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 02-02-2026

Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान

Coordinator, University/Institution

निदेशक/Director

आई.आई.आर.एस, देहरादून/IIRS, Dehradun

UID: 459874c56b578c3e593fcc0f562795b5 .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



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.: 202610532924262

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. SANKET RAJENDRA VYAVAHARE

ने इस संस्थान द्वारा दिनांक **2026-01-09** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

में भाग लिया।

(संबन्धित आई.आई.आर.एस. नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांबवड)

This is to certify that

MR. SANKET RAJENDRA VYAVAHARE

has participated in one day online workshop titled

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

conducted by this institute on **09-01-2026**.

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 02-02-2026

Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान

Coordinator, University/Institution

निदेशक/Director

आई.आई.आर.एस, देहरादून/IIRS, Dehradun

UID: 4908cc0d1cc2e60767f10af3696fcd9 .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



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.: 202610532924338

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. ANIKET SATHE

ने इस संस्थान द्वारा दिनांक **2026-01-09** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

में भाग लिया।

(संबन्धित आई.आई.आर.एस नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांदवड)

This is to certify that

MR. ANIKET SATHE

has participated in one day online workshop titled

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

conducted by this institute on **09-01-2026**.

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 02-02-2026

Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution

निदेशक/Director

आई.आई.आर.एस, देहरादून/IIRS, Dehradun

UID: 9245737949b7f16d1d256b8caef4c416 .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>



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.: 202610532924271

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

MS. SAKSHI SHRAVAN SHINDE

ने इस संस्थान द्वारा दिनांक **2026-01-09** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

में भाग लिया।

(संबन्धित आई.आई.आर.एस नोडल केंद्र- एस एन जे बी, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेक्निक, चांदवड)

This is to certify that

MS. SAKSHI SHRAVAN SHINDE

has participated in one day online workshop titled

ब्रह्मांड की उत्पत्ति सौर मंडल की खोज

conducted by this institute on **09-01-2026**.

(Concerned IIRS Nodal Centre- SNJBs Shri Hiralal Hastimal(Jain Brothers, Jalgaon) Polytechnic)

Date: 02-02-2026

Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/Institution

निदेशक/Director

आई.आई.आर.एस, देहरादून/IIRS, Dehradun

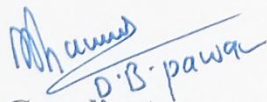
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Staffs and students were participated and successfully completed various IIRS-Outreach Programs. Students are interested and curious about space technology. It was also observed that many participants are joining multiple courses offered by IIRS. The engagement of the learners in learning process was achieved by developing innovating learning tools in E- CLASS platform. The conduction of random class activities like quiz, monitoring of attendance and discussion forums are very effective to keep the learners active during the online courses.

Digital certificates. The application on successful completion of the course and meeting the criteria of attendance and exam get the digital certificate. The certificate is digitally signed and can be verified through QR Code, which is printed in the certificate itself.

Institute is positively looking forward for successful conducting of various outreach programs of IIRS.

Principal Dr.Vishal A.Wankhede has been taken initiative for participation of institution in IIRS-ISRO Outreach Programs.



Coordinator

IIRS –ISRO Outreach Program



Dr. Vishal A. Wankhede