



SNJB's

Shri. Hiralal Hastimal (Jain Brothers) Polytechnic, Chandwad

(All AICTE Approved Programs NBA accredited)

Academic year: 2024-2025

Report on

IIRS-ISRO Outreach Program

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

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:

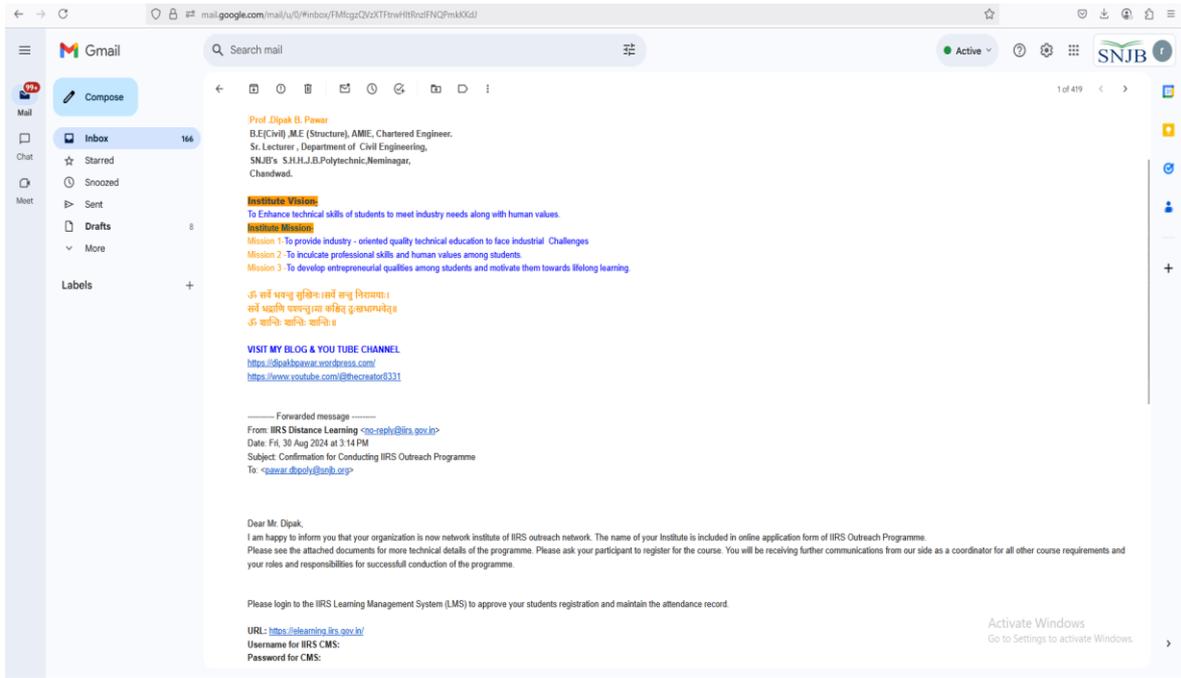
- Working Professionals: Based on 70% attendance and submission of assignments.
- Students: Based on 70% attendance and online examination

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 2024-25 institute conducted following courses successfully.

Course ID-1040: Understating Cryospheric Hazards (Course in Hindi)
Duration 06/09/24 to 06/09/2024

IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 3700+ 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/Academic Meet (JAN-2024)

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).



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 (PII), 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

Pratima Pandey
Course Director

Dr. Poonam S. Iwan
Programme Coordinator
IIRS Outreach Programme

IIRS DLI* Team
Mr. Janardan Vishwakarma
&
Mr. Ashok Chidhyar
Tel: 0135-2524130
Email: dli@iirs.gov.in

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

1040th IIRS Outreach Programme



**One Day Workshop on
Understanding Cryospheric
Hazards**
September 06 2024



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

Studies on the Himalayan cryosphere have attained global significance due to the impact of climate change on Himalayan glaciers and snow cover vis-a-vis its consequence across all major river basins arising from Himalaya affecting almost 1.5 billion people. The emerging issues include the impact of glacier and snowmelt resulting in formation of several new lakes, some of which pose severe risk due to potential Glacial Lake Outburst Flood (GLOF). A relatively new phenomenon has emerged i.e. permafrost melting and its associated hazards. Due to changing pattern of precipitation, including extreme precipitation, many avalanche chutes and snout regions have experienced huge debris slides. The workshop is aimed at addressing the high mountain hazard with emphasis on Himalayan cryospheric hazards.

Curriculum

Time (Hrs)	Lecture Topic
1100-1130	Overview of Geological hazards
1135-1230	Elements and dynamics of cryosphere from climate change perspective
1415-1500	High mountain hazards in Himalaya with emphasis on debris flow
1505-1550	Remote Sensing Application of Cryospheric Hazard

Expected Outcome

The one day workshop is expected to improve understanding of the emerging issues of Himalayan cryosphere in a holistic manner mainly related to glacier hazard, glacier dynamics, glacial lake dynamics, permafrost, landform dynamics, snow cover dynamics and debris flow. This will help early researchers and students to add new dimensions and understanding towards taking up the study for higher education and career.

Target Participants

The candidates who want to participate in the course should be students of a final-year undergraduate course or postgraduate course (any year) and citizens of India.

Course Pre-requisite

- Basic concepts of Earth Science

Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through e-class. Video lectures will also be uploaded on e-class (<https://www.eclass.iirs.gov.in/login>).

Course Fee

There is no course fee for attending this programme.

Course Registration

- Course updates and other details will be available on URL - <http://www.iirs.gov.in/Educat-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://iisrolms.iirs.gov.in>

Course Funding & Technical Support

The programme is sponsored by Indian Space Research Organisation, Department of Space, Government of India.

Programme Reception

Programme can be received 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.

Important links

To participate in this programme the interested organisations/universities/departments/institutes have to identify coordinator at their end. The identified coordinator 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 70% attendance, students will be awarded a "Courses Participation Certificate."

Individual Registration: A "Course Participation" certificate will be given to everyone who devotes at least 70% of each session's hours to the course. The course participation certificate will be available for download in ISRO LMS.

**There are a limited number of seats.
Registration will be done on a first-come, first-served basis.**

Staff and students were admitted, successfully completed mentioned course

Sr. No.	Name of Student	Registration No.	Status- Successfully completed and issued certificate
1	Mr. Rushikesh Avdhut Ahirrao	202410402581127	Certificate issued
2	Mr. Ramesh Rajendra Kotwal	202410402581365	Certificate issued
3	Mrs. Ankita Pravin vakte	202410402581423	Certificate issued
4	Mrs. Rutuja Nikhil Bachhav	202410402581462	Certificate issued
5	Mr. Aayush Amol Vaidya	202410402581592	Certificate issued
6	Mr. Ganesh Sudam Sonawane	202410402581632	Certificate issued
7	Ms. Shraddha Rajendra Kawat	202410402581721	Certificate issued
8	Mr. Rupesh Bhuvneshwar Mahajan	202410402581761	Certificate issued
9	Mr. Gagan Santosh Thakare	202410402581785	Certificate issued
10	Mr. KALE KUNAL KEWAL	202410402581865	Certificate issued
11	Mr. Nivrutti Ratan Savandre	202410402586416	Certificate issued
12	Mr. SHIMPI JITENDRA VASANTRAO	202410402586506	Certificate issued
13	Mr. Nivrutti Ambadas Sonawane	202410402586760	Certificate issued
14	Mr. Manoj Dattatray Bhavsar	202410402586777	Certificate issued
15	Mr. Ganesh Dilip Bhure	202410402586813	Certificate issued
16	Mr. Rajendra Balu Bagul	202410402586843	Certificate issued
17	Mr. Atul Jagannath Bhawsar	202410402587116	Certificate issued
18	Mr. Bafna Pankaj Javrilal	202410402587184	Certificate issued

Course ID-148: अंतरीक्ष प्रौद्योगिकी का अवलोकन

Conducted on 09 Sept 2024 to 20 Sept 2024.

एक दिवसीय कार्यशाला

अंतरिक्ष प्रौद्योगिकी के अनुप्रयोग

जनवरी 10, 2025
प्रातः 10:30 से 16:00 बजे तक

पंजीकरण एवं सारिणी का लिंक :
<https://www.iirs.gov.in/Edusat-News/>

पाठ्यक्रम का माध्यम: हिन्दी

इस कार्यशाला का मुख्य उद्देश्य प्रतिभागियों को अंतरिक्ष प्रौद्योगिकी और इसके विभिन्न अनुप्रयोगों जैसे भू-पर्यवेक्षण, संचार, मौसम विज्ञान, और आपदा प्रबंधन के बारे में जानकारी प्रदान करना

ईमेल: dip@iirs.gov.in;
दूरभाष: 0135-2524354/4130/4334

सम्पर्क विवरण
दूरस्थ शिक्षा केंद्र
भारतीय सूक्ष्म संवेदन संस्थान,
भारतीय अंतरिक्ष अनुसंधान संगठन,
अंतरिक्ष विभाग, भारत सरकार
4-कालिदास रोड, देहरादून-248001

कार्यशाला की रूपरेखा

- भारतीय अंतरिक्ष कार्यक्रम का अवलोकन
- पृथ्वी और ग्रह की अवरक्त रिमोट सेंसिंग
- आपदा प्रबंधन में अंतरिक्ष प्रौद्योगिकी का अनुप्रयोग
- भविष्य के अंतरिक्ष मिशनों में चुनौतियाँ और अवसर

Staff and students are enrolled, successfully completed

Sr. No.	Name of Student	Registration No.	Status- Successfully completed and issued certificate
1	Mr. Aayush Amol Vaidya	20241482578298	Certificate issued
2	Mr. Rushikesh Avdhut Ahirrao	20241482580805	Certificate issued
3	Mr. Ramesh Rajendra Kotwal	20241482581331	Certificate issued
4	Mr. Gagan Santosh Thakare	20241482588316	Certificate issued
5	Mr. SHIMPI JITENDRA VASANTRSO	20241482589582	Certificate issued

Course ID-149: Overview of Global Navigation Satellite System

Conducted on 23 Sept 2024 to 04 Oct 2024.

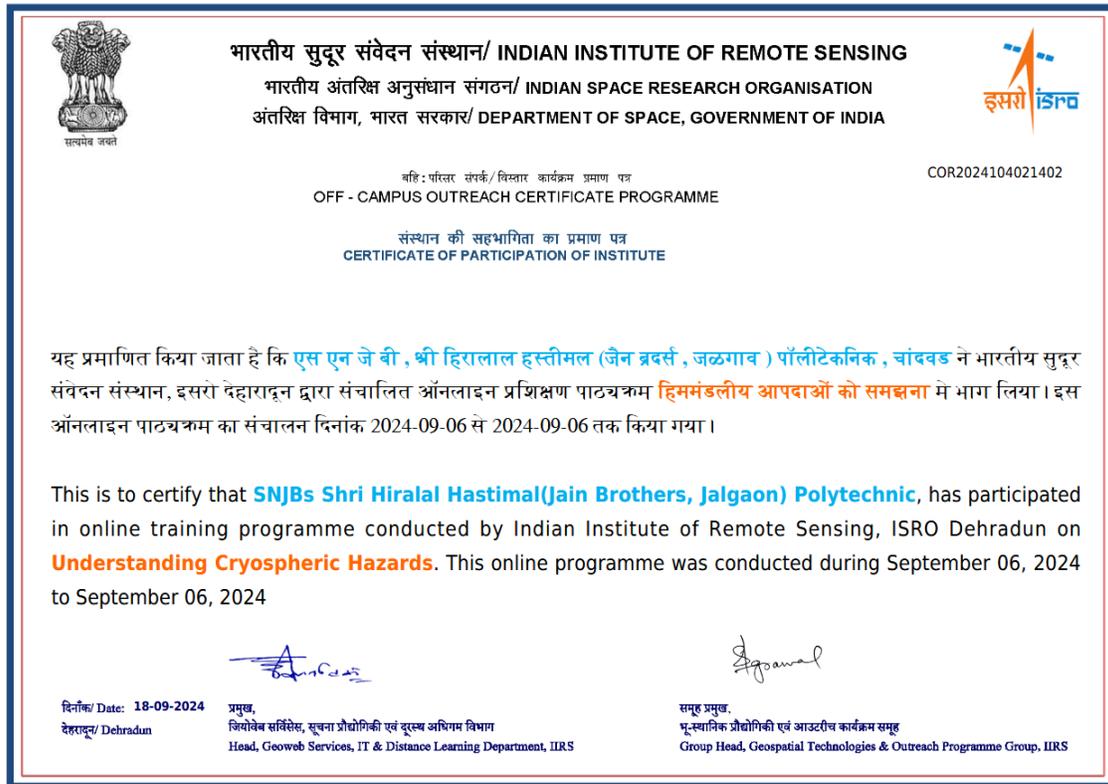
03 Staffs were admitted, successfully completed mentioned course

Sr. No.	Name of Student	Registration No.	Status- Successfully completed and issued certificate
1	Mr. Rushikesh Avdhut Ahirrao	20241492586473	Certificate issued
2	Mr. Rupesh Bhuvneshwar Mahajan	20241492590554	Certificate issued
3	Mrs. Ankita Pravin vakte	20241492590560	Certificate issued

Total 26 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.

After the completion of the course a certificate was awarded to the Institution and the coordinator. The institution certificate (sample) is shown below



For successfully coordinating the online training course a certificate was awarded to the course coordinator. The Coordinator certificate (sample) is shown below.



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 पारिदा संपर्क/ विद्युत्ता कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR2024104021402

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि **एस एन जे बी**, श्री हिरालाल हस्तीमल (जैन ब्रदर्स, जळगाव) पॉलीटेकनिक, चांदवड कार्यरत श्री दीपक बालासाहेब पवार ने **हिममंडलीय आपदाओं को समझना** विषय पर इस संस्थान द्वारा दिनांक 2024-09-06 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 **Understanding Cryospheric Hazards** conducted by this institute on September 06, 2024

दिनांक/ Date: 18-09-2024
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

After the completion of the online course, a certificate has been awarded to all students for participation in online course. The certificate was issued by Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun.

A sample certificate is shown below



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. : 202410402581592

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. AAYUSH AMOL VAIDYA

ने इस संस्थान द्वारा दिनांक **2024-09-06** को आयोजित एक दिवसीय ऑनलाइन कार्यशाला,
हिममंडलीय आपदाओं को समझना
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. AAYUSH AMOL VAIDYA

has participated in one day online workshop titled

Understanding Cryospheric Hazards

conducted by this institute on **06-09-2024.**

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

Date: 18-09-2024

Place: Dehradun

समन्वयक, विश्वविद्यालय/ संस्थान
Coordinator, University/ Institution

निदेशक/ Director

आई०आई०आर०एस, देहरादून/ IIRS, Dehradun

UID: c6ebaeb63885bfee9f57eeb7a939c838 .This Certificate can be validated using URL- <https://certificate.iirs.gov.in>

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.