Shri Shivaji Education Society, Amravati's

# Jijamata Mahavidyalaya, Buldhana

## Nodal Centre - IIRS

# IIRS Outreach Programme

## Live and Interactive Classroom:

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. The live and interactive mode of distance learning is enabled through Internet and A-view software platform developed by Amrita e-learning Lab in collaboration with Ministry of Human Resource Development (MHRD) Government of India. The programs are available **through Internet without any cost** to the user. The live and interactive sessions will be conducted by experts from IISR-ISRO and other knowledge Institutions. IIRS has successfully conducted 22 such courses so far with participation of over **120258+ participants from 1048+ Academic Institutions, Government Departments and Industry**. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions;
- Central & State Government Organizations/Departments;
- Research Institutes;
- Geospatial Industry;
- NGOs

IIRS also conducts various theme oriented online courses and monthly webinars on recent topics on geospatial technologies and its applications. Users are encouraged to actively participate on these programs. For more detail please visit IIRS official website- www.iirs.gov.in

## *Registration for the Course:*

- **Determine your eligibility:**
  Before applying online, make sure your eligibility. Eligibility details are given below:
  - The course is open for all the Student of undergraduate course/ Postgraduate course (any year).
  - Technical/ Scientific Staff of Central/ State Government Ministries/ Departments
  - Faculty / Researchers at university / institutions are also eligible to participate in this course.
- **Selection of Course details:**
  During online application form you have to select the course which you wish to apply.
- **Universities/institutions/Institute:**
  We have list of universities/institutions/colleges networked under IIRS Outreach Programme. Select your university, if your university is not listed please refer **Procedure to join IIRS Outreach network**. After approval from IIRS /ISRO you can register.
- **Personal Details:**
  Please provide your personal details like Name, Designation, Date of Birth, Gender, Nationality, E-Mail etc.
- **Educational Details:**
  Please provide your education details starting from SSC to Degree level
- **Other details:**
  Please provide the detail as per the online form
- **Documents Upload:**
  Please upload your recent photograph & identification proof

## *Reception of the Program:*

**Live & Interactive programme can be received in two ways:**

- **A-View:** A-VIEW is an advanced multi-modal, multi-platform, collaborative e-learning solution which allows an instructor to teach or interact with a large number of learners transcending geographies on a real-time basis through live audio video streaming and synchronized content sharing. A-VIEW allows the instructor to perform live evaluation of the learners and to get real-time feedback from attendees on the go. A-VIEW can also act as an online meeting tool that can support online social collaboration and interactions with multiple users from various locations simultaneously. Download A-VIEW (http://aview.in/)
- **Webcasting:** Webcasting is the process of video broadcasting live over the internet. To watch our live programme through our webcasting service click here:(http://iirs.gov.in/)

## *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 Study Material:*

Course study materials such as lecture slides, video recorded lectures, open source software, data & handouts of demonstrations, etc., will be made available through IIRS ftp link (ftp://ftp.iirs.gov.in).Video lectures will also be uploaded on YouTube Channel (http://www.youtube.com/user/edusat2004).

## *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.


**IIRS Distance Learning Centre**
Indian Institute of Remote Sensing,
Indian Space Research Organization
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun-248001
**Email id:** dlp@iirs.gov.in
**Tel:** 0135-2524130/4354/4334; (Monday to Friday (9:30 AM to 05:00 PM)


Gmail — Vikas Pahurkar <vgpahurkar@gmail.com>

**Confirmation for Conducting IIRS Outreach Programme**
1 message

**IIRS Distance Learning** <dlp@iirs.gov.in> Wed, Nov 11, 2020 at 12:33 PM
To: vgpahurkar@gmail.com

Dear Dr. Vikas G. Pahurkar,
I am happy to inform you that your organization is now network institute of IIRS outreach network. The name of your Institute is included in online application form of IIRS Outreach Programme.
Please see the attached documents for more technical details of the programme. Please ask your participant to register for the course. You will be receiving further communications from our side as a coordinator for all other course requirements and your roles and responsibilities for successfull conduction of the programme.

Please login to the IIRS Learning Management System (LMS) to approve your students registration and maintain the attendance record.

**URL:** https://elearning.iirs.gov.in/
**Username for IIRS CMS:**
**Password for CMS:**

**Please click the following below link for more details**
**Coordinator Management System Detail:** click here
**Coordinator Management System Detail:** click here

I hope that you and your participants will have an exciting learning experience with us in the field of Remote Sensing, GIS and GNSS technologies and their applications.
For any further clarification please mail us at: **dlp@iirs.gov.in** | or call us at Tel-+91-135-2524130

**Thanking you.**

With Best Regards

Dr. Harish Chandra Karnatak
Head, GIT& DL Department
RSGG, IIRS/ISRO, Dehradun.

Attachments:
1. Guideliness for coordinator

Gmail **Vikas Pahurkar <vgpahurkar@gmail.com>**

## IIRS Outreach Programme

1 message

**IIRS Distance Learning** <websupport@iirs.gov.in> Tue, Nov 30, 2021 at 8:58 PM
To: vgpahurkar@gmail.com

Dear Vikas G. Pahurkar,

Thank you for your interest in IIRS outreach programme and conducting live & Interactive courses at your Institute/Organization. Earlier we have received your request to become network institute of IIRS/ISRO Outreach network. Currently your institute is listed as one of the nodal center to conduct online courses offered by IIRS-ISRO Dehradun. We have received registration request from some of the participants by selecting **your Institute as a nodal center** for conducting comming live & interactive courses as per the following details:

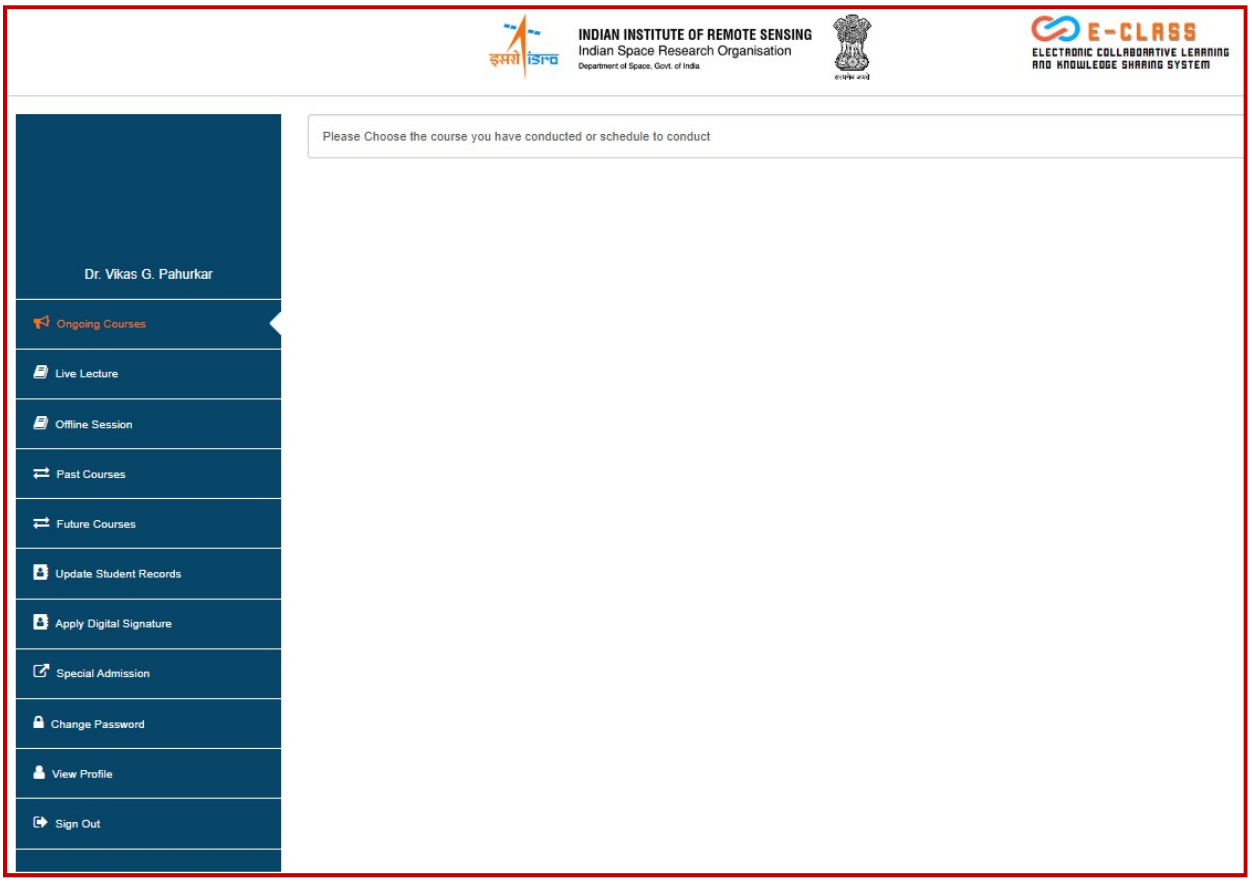
**Institute Name**

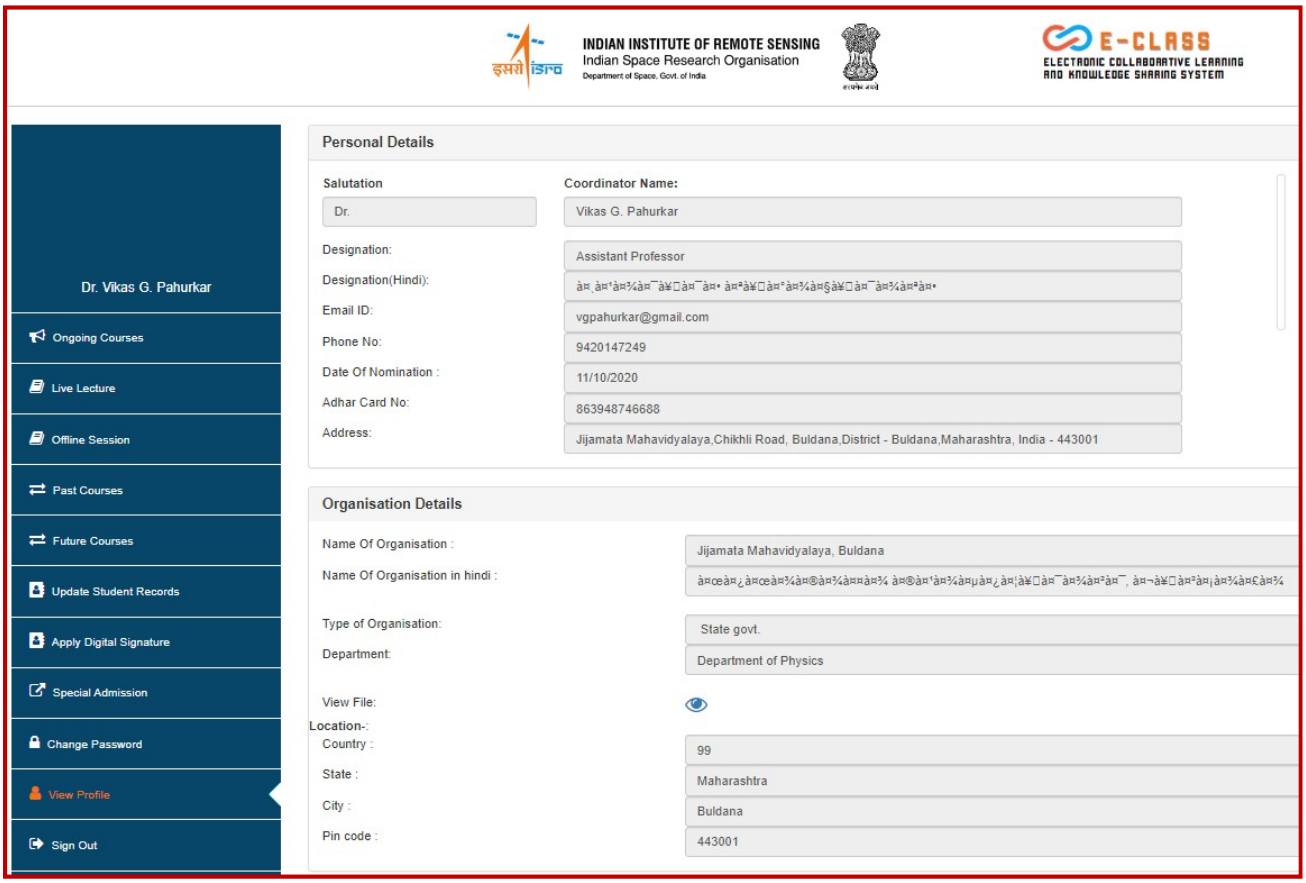
If your institute is currently active and interested to conduct above course/webinar then please click to following link to varify the status:
Click here to keep your institute status as Active

If you are unable to conduct above course/webinar this time at your institute, then please click on following link to stop further registrations by the participants:
Click to stop registration under your institute

For any further query please contact us at **edusat@iirs.gov.in** **or** **dlp@iirs.gov.in** , Tel: +91-135- 2524130.

With regards
Head,
**GIT&DL Department**
**IIRS, Dehardun**




INDIAN INSTITUTE OF REMOTE SENSING
Indian Space Research Organisation
Department of Space, Govt. of India
E-CLASS
ELECTRONIC COLLABORATIVE LEARNING AND KNOWLEDGE SHARING SYSTEM
Dr. Vikas G. Pahurkar
Ongoing Courses
Live Lecture
Offline Session
Past Courses
Future Courses
Update Student Records
Apply Digital Signature
Special Admission
Change Password
View Profile
Sign Out
Personal Details
Salutation
Dr.
Coordinator Name:
Vikas G. Pahurkar
Designation:
Assistant Professor
Email ID:
vgpahurkar@gmail.com
Phone No:
9420147249
Date Of Nomination :
11/10/2020
Adhar Card No:
863948746688
Address:
Jijamata Mahavidyalaya,Chikhli Road, Buldana,District - Buldana,Maharashtra, India - 443001
Organisation Details
Name Of Organisation :
Jijamata Mahavidyalaya, Buldana
Type of Organisation:
State govt.
Department:
Department of Physics
View File:
Location-:
Country :
99
State :
Maharashtra
City :
Buldana
Pin code :
443001

INDIAN INSTITUTE OF REMOTE SENSING
Indian Space Research Organisation
Department of Space, Govt. of India
E-CLASS
ELECTRONIC COLLABORATIVE LEARNING AND KNOWLEDGE SHARING SYSTEM
All
Search
Dr. Poonam S. Tiwari
February 28th at 2:21pm
07 June 2018 Methods and Algorithms for Image Segmentation
Ms. Manu Mehta
February 28th at 2:21pm
04 Sep 2018_Basic of Remote Sensing
Dr Hina Pande
February 28th at 2:21pm
05 Sep 2018_Spectral Signature and Image Interpretation
Shri Vinay Kumar
February 28th at 2:21pm
05 Sep 2018_Earth observation Sensor and Platforms
Ms. Manu Mehta
February 28th at 2:21pm
Dr. Hina Pande
February 28th at 2:21pm
Shri Vinay Kumar
February 28th at 2:21pm
Mrs Minakshi Kumar
February 28th at 2:21pm

Books

eLearning Sample

## eLearning Sample

| Demo Courses |
| --- |
| Paper - 1 Image Statistics |
| Paper - 2 Basics of Remote Sensing |
| Paper - 3 Photogrammetry and Cartography |
| Paper - 4 Digital Image Processing |
| Paper - 5 Geographical Information System |
| Paper - 6 Global Navigation Satellite System |
| Paper - 7 Customization of Geospatial Tools |
| Paper - 8 Applications of Geospatial Technologies |

Books

eLearning Sample

e-Learning

### Global Navigation Satellite System

1. Global Positioning System: Theory and Applications — B.W Parkinson, James J. Spilker
2. GPS Satellite Survey — Alfred Leick.
3. GPS Theory, Algorithm and Applications — Gouchang Xu.
4. Global Positioning: Technology and Performance — Nel Samama.

# Books

## Photogrammetry and Cartography


1. GPS Satellite Surveying — Alfred Leick
2. Spaceflight Dynamics — William E. Wiesel
3. Photogrammetry — F H Moffitt, E M Mikhail, Harper & Row Publishers, New York, 1980.
4. Computer-assisted Cartography: Principles and Prospects — Monimonier Mark S.
5. Visualization in Modern Cartography — MacEachren Alan M and Taylor DR Fraser.
6. Geographic Visualization: Concepts, Tools and Applications — Martin Dodge, Mary McDerby and Martin Turner.
7. Thematic Cartography and Visualization — Slocum Terry A.
8. Multimedia Cartography — Cartwright, William, Peterson, Michael P. and Gartner, Georg.
9. Analytical and Computer Cartography — Clarke Keith C.
10. Cartography: Visualization of Geospatial Data — Kraak Menno-Jan and Ormelling Ferjan.
11. Digital Cartography — Cromley Robert G./li>
12. Display and Analysis Of Spatial Data — Davis John C, and McCullagh Michael.
13. Elements of Cartography — Robinson H, Arthur, Morrison, Joel L and Muehrcke Phillip C.
14. Geographic Information Systems and Cartographic Modeling — Tomlin Dana C
15. Geographical Information Systems and Computer Cartography — Jones Christopher B.
16. Elements of Cartography — Robinson, A.; Morrison, J.; Muehrke, P.; Kimmerling, A.; & Guptill, S.
17. Thematic Cartography and Transformations — Cauvin, Colette, Escobar, Francisco and Serradj, Aziz.
18. Web Cartography: Developments and Prospects — Kraak Menno Jan and Brown Allan.
19. An overview of data pre-processing of remotely sensed data – A tutorial on Image Pre-Processing' by A. R. Dasgupta, GD, IPDPG, SAC delivered at ISPRS Commission I conference during February 1998, at Bangalore.
20. Specifications of data products and their relation with sensor and platform characteristics – A tutorial on 'Image Pre-Processing' by Dr. P. K. Srivastava, IPPD/IPDPG/SAC delivered at ISPRS Commission I conference during February 1998, at Bangalore.
21. SPOT Stereo Data Processing: Determination of Digital Terrain Model from SPOT stereo pairs, Mathematical formulation and functional design, P. K. Srivastava, T. G. B. Srikant, T. P. Srinivasan, M. P. T. Chamy, P. M. Udani, IPDPG/IPPD/SAC/DP-02/89.
22. MOMS Data Users Handbook
23. MEOSS Users Handbook, July 1988
24. IRS-1D data users hand book, ----- 1997


## Digital Image Processing


1. On The Atmospheric Correction for a Hyperion Scene Taiwan — Shih, T. Y.
2. Introduction to Hyperspectral Image Analysis — Shippert, P.
3. Advanced Image Processing Techniques for Remotely Sensed Hyperspectral data — Varshney, P. K. and Arora, M. K.
4. Remote Sensing and Image Interpretation — Lillesand, T.M. and Kiefer. R. W.
5. Spectral Mixture Analysis of Hyperspectral Data — Tseng, Y. H.


## Geographical Information System


1. Principles of Geographical Information Systems for Land Resource Assessment — P. A. Burrough.
2. Geographical Information Systems – Principles Vol.1 — Goodchild.
3. Fundamentals of Spatial — Robert Laurini and Derek Thompson.
4. Fuzzy sets and fuzzy logic — George J. Klir and Bo Yuan
5. Fuzzy and Neural Approaches in Engineering — Lefteri H. Tsoukalas and Robert E. Uhrig
6. Principles of Geographical Information System for Land Assessment — P. A. Burrough
7. Geographic Information Systems for Geoscientists — Bonhan – Carter G. F.
8. International Journal of Geographical Information Science.
9. International Journal of Remote Sensing
10. GIS Asial Pacific (Magazine)
11. GIS @ Development (Magazine)
12. GIS India (Magazine)
13. Understanding GIS the ARC/INFO Method Ver7.1.
14. ILWIS 2.2 User Guide

## What courses are available?

Following courses are available under IIRS e-learning programme.

**Four (04) months duration**:
- Comprehensive certificate course on Remote Sensing and Geo-information Science.

**One (01) month duration**:
- Certificate course on Fundamentals of Remote Sensing.
- Certificate course on Fundamentals of Photogrammetry and Cartography.
- Certificate course on Fundamentals of Geographical Information System and Global Navigation System.
- Certificate course on Fundamentals of Digital Image Processing.

## Eligibility and Course Durations

For *learners no minimum qualification* is required. However to get a certificate from IIRS following qualification is required:
- Persons who have successfully completed graduation or 3 years diploma after 10th standard or equivalent are eligible.

or
- Working professionals with 10+2 educational qualification and minimum 5 years' experience in geo-spatial domain or related areas.

## How to register?

Interested participants can register through http://elearning.iirs.gov.in or http://www.iirs.gov.in

## What is the course fee?

The e-learning courses is available free of cost to all the participants. However to get a certificate from IIRS, the student has to appear in an examination for which a nominal fee will be payable through demand draft as per following:
- For four months certificate-₹ 10,000/
- For one month course- ₹ 2500/

There is no fee for Government of India sponsored participants.

Inside page - 5

## Contact Details


**INDIAN INSTITUTE OF REMOTE SENSING**
Indian Space Research Organisation
Department of Space, Government of India

**Dr. Prakash Chauhan**
Director
Indian Institute of Remote Sensing
director@iirs.gov.in
Tel: +91-135-2524103; Fax: +91-135-2741987

**Dr. S.K Srivastav**
Dean (Academics), Indian Institute of Remote Sensing
Email: sks@iirs.gov.in

**Ms. Shefali Agrawal**
Group Head, Geospatial Technology and Outreach Programme Group
Email: shefali_a@iirs.gov.in

**Dr. Harish Karnatak**
Programme Coordinator
IIRS Outreach Programme
harish@iirs.gov.in
Tel: +91-135-2524332; Fax: +91-135-2741987

**e-Learning Secretariat**
elearning@iirs.gov.in
Tel: +91-135-2524355/4334/4130; Fax: +91-135-2741987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# iirs

## E-learning based Certificate Programmes on Remote Sensing and Geoinformation Sciences

https://elearning.iirs.gov.in

Cover page -1

## Background:

During last decade the utilization of Internet technology by different user groups in the society is emerged as a technological revaluation which has directly affect the life of human being. The role of internet technology is very important for capacity building in any discipline which can satisfy the needs of maximum users in minimum time.

IIRS has been conducting satellite based outreach program since 2007 with the manifold support from Standing Committee on Training and Education (SC-T) of National Natural Resources Management System. The program has been very popular across the country. We have so far trained over 79,000 participants from 38 courses conducted so far, representing 870+ institutions/universities. However, this program remained limited to educational institutions that are having EDUSAT Studio setup and high speed internet connectivity within the country.

Inside page - 2

## Why an e-Learning programme?

This online programme is flexible for anytime, anywhere learning keeping in mind the demands of geographically dispersed audience and their requirements. The programme is comprehensive with variety of online delivery modes with interactive, easy to learn and having a proper blend of concepts and practical to elicit students' full potential. The registered participants of IIRS e-learning programme can access:
- Relevant lecture notes, practical exercises developed for e-learning courses and EDUSAT programme of IIRS.
- Download geo-spatial data from open and free data archive and related services.
- Access to Student thesis and publication archive of IIRS.
- Recorded video of EDUSAT programme for relevant topics.
- Participation in Important lectures conducted at IIRS through live webcasting using NKN.
- Participants are allowed to participate in EDUSAT based interactive classroom. The same registration and Single Sign-on option will be available.
- Interaction with subject expert from IIRS through live Chat and interactive sessions.

## The Need:

Remote Sensing and Geoinformation Science have become key technology tools for the collection, storage and analysis of spatially referenced data for resource planning and decision making. Today it is the backbone to many decision-making systems and location-based services emerging in the New Information Economy. Planners and decision makers' that utilize these Geo-spatial technologies for variety of applications in agriculture, forestry, mining, market research, environmental analysis as well as the social, utility services and disaster management.

Inside page - 3

## Course Objectives:

a. To provide an opportunity for individuals to learn Remote Sensing and Geoinformation Science for the benefit of their professional career. 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.

b. To provide considerable flexibility allowing students to quickly gain the RS and GIS knowledge and qualification they need today, and to add to their credentials. Students develop a capacity for independent research, problem analysis and solution.

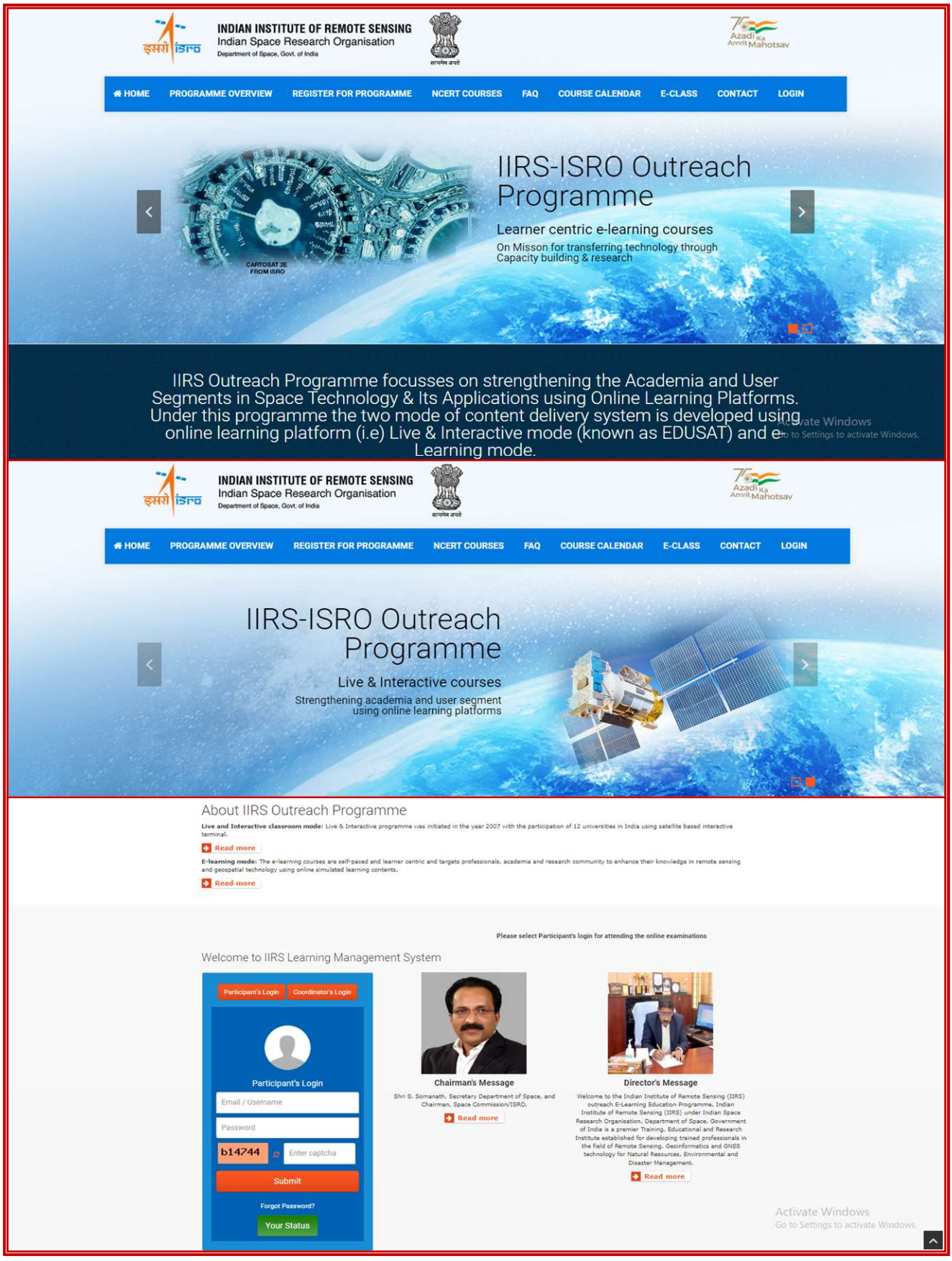
c. To empower students undertaking this course to develop their knowledge and understanding through formal coursework and a program of independent reading. It has a practical component and a project associated with it to develop learners' research, analytical and problem-solving skills.

d. To undergo Laboratory Practical and Experiments in Cloud Computing Environment

## Target Groups:

- State and Central Government Ministries and Departments.
- Geospatial Industries.
- PSU/entrepreneurs / NGO.
- Students and Researchers.

Cover page -4


INDIAN INSTITUTE OF REMOTE SENSING
Indian Space Research Organisation
Department of Space, Govt. of India
HOME
PROGRAMME OVERVIEW
REGISTER FOR PROGRAMME
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FAQ
COURSE CALENDAR
E-CLASS
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CARTOSAT 2E FROM ISRO
IIRS-ISRO Outreach Programme
Learner centric e-learning courses
On Misson for transferring technology through Capacity building & research
IIRS Outreach Programme focusses on strengthening the Academia and User Segments in Space Technology & Its Applications using Online Learning Platforms. Under this programme the two mode of content delivery system is developed using online learning platform (i.e) Live & Interactive mode (known as EDUSAT) and e-Learning mode.
Activate Windows
Go to Settings to activate Windows.
IIRS-ISRO Outreach Programme
Live & Interactive courses
Strengthening academia and user segment using online learning platforms
About IIRS Outreach Programme
Live and Interactive classroom mode: Live & Interactive programme was initiated in the year 2007 with the participation of 12 universities in India using satellite based interactive terminal.
Read more
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.
Read more
Please select Participant's login for attending the online examinations
Welcome to IIRS Learning Management System
Participant's Login
Coordinator's Login
Participant's Login
Email / Username
Password
b14744
Enter captcha
Submit
Forgot Password?
Your Status
Chairman's Message
Shri S. Somanath, Secretary Department of Space, and Chairman, Space Commission/ISRO.
Read more
Director's Message
Welcome to the Indian Institute of Remote Sensing (IIRS) outreach E-Learning Education Programme, Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation, Department of Space, Government of India is a premier Training, Educational and Research Institute established for developing trained professionals in the field of Remote Sensing, Geoinformatics and GNSS technology for Natural Resources, Environmental and Disaster Management.
Read more
Activate Windows
Go to Settings to activate Windows.

## Sample Certificates of participant, Institute and Coordinator

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

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

सत्यमेव जयते

नामांकन सं. / Enrollment No. : 2020710564265

# CERTIFICATE OF PARTICIPATION IN ONLINE COURSE

iirs

यह प्रमाणित किया जाता है कि **श्री मुजाहिद अहमद अब्दुल वाजिद** को यह प्रमाण पत्र **" एडवांसेस इन एस.ए.आर- पोलारिमेट्री एंड इंटेर्फेरोमेट्री "** में ऑनलाइन पाठ्यक्रम में प्रतिभाग करने पर प्रदान किया जाता है। इस पाठ्यक्रम का आयोजन भारतीय सुदूर संवेदन संस्थान (आईआईआरएस), इसरो, देहरादून द्वारा **14 दिसम्बर, 2020 से 18 दिसम्बर, 2020 ( कुल पाठ्यक्रम अवधि = 7 घंटे 30 मिनट )** के दौरान किया गया ।

This is to certify that **MR. MUJAHID AHMAD ABDUL WAJID** has been awarded this certificate for participation in online course on **"Advances in SAR-Polarimetry & Interferometry"** conducted by Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun during **14-12-2020 to 18-12-2020 ( Total course duration = 7 hours and 30 minutes )** .

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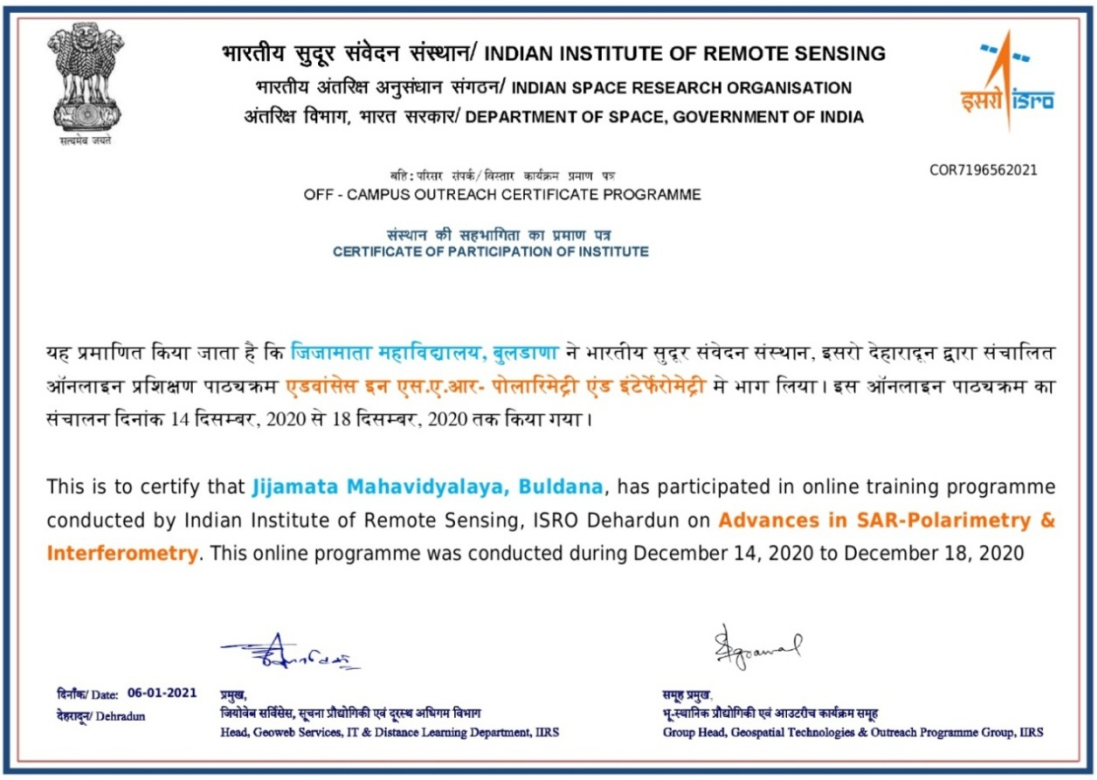
**Date:** 13-01-2021
**Place:** Dehradun

**समन्वयक, विश्वविद्यालय/संस्थान**
**Coordinator, University/Institution**

**निदेशक/ Director**
**आई०आई०आर०एस, देहरादून/ IIRS, Dehradun**

UID- 2a17b6ce81018930b708aff712de7afa .This Certificate can be validated using URL- https://certificate.iirs.gov.in

## Certificate of Participation of Institute



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

सत्यमेव जयते

इसरो ISRO

सं दि : परिसर संपर्क/ विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR7196562021

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि जिजामाता महाविद्यालय, बुलडाणा ने भारतीय सुदूर संवेदन संस्थान, इसरो देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम एडवांसेस इन एस.ए.आर- पोलारिमेट्री एंड इंटेर्फेरोमेट्री मे भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 14 दिसम्बर, 2020 से 18 दिसम्बर, 2020 तक किया गया।

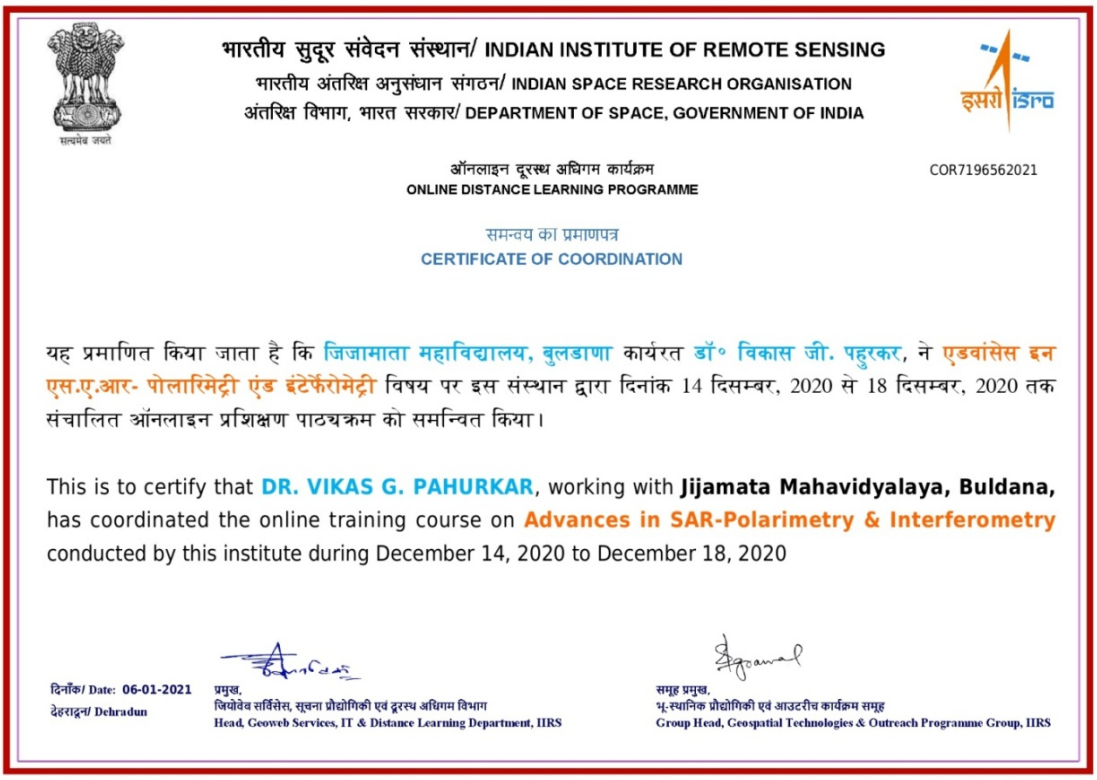
This is to certify that **Jijamata Mahavidyalaya, Buldana**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on **Advances in SAR-Polarimetry & Interferometry**. This online programme was conducted during December 14, 2020 to December 18, 2020

दिनाँक/ Date: 06-01-2021
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

## Certificate of Coordinator



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
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CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि जिजामाता महाविद्यालय, बुलडाणा कार्यरत डॉ॰ विकास जी. पहुरकर, ने एडवांसेस इन एस.ए.आर- पोलारिमेट्री एंड इंटेर्फेरोमेट्री विषय पर इस संस्थान द्वारा दिनांक 14 दिसम्बर, 2020 से 18 दिसम्बर, 2020 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **DR. VIKAS G. PAHURKAR**, working with **Jijamata Mahavidyalaya, Buldana,** has coordinated the online training course on **Advances in SAR-Polarimetry & Interferometry** conducted by this institute during December 14, 2020 to December 18, 2020

दिनाँक/ Date: 06-01-2021
देहरादून/ Dehradun

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