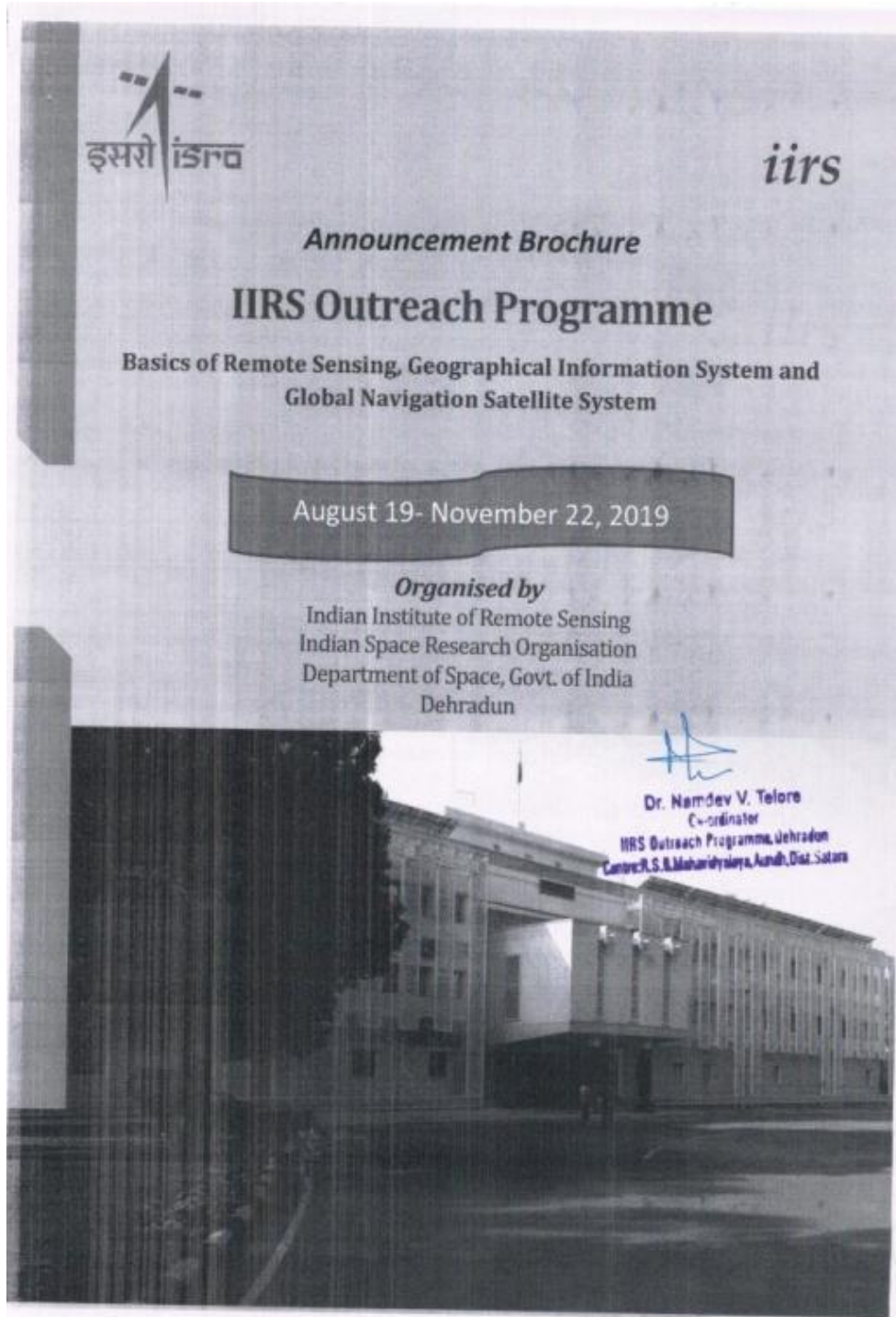


Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh, Satara

50th IIRS ISRO EDUSAT Outreach Programme

Basics of Remote Sensing and Digital Image Analysis

19/08/2019 to 22/11/2019



Course Announcement

IIRS announces four courses commencing from August 19th, 2019

- ❖ **Remote Sensing and Digital Image Analysis (19/08/2019 to 13/09/2019):** Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover features, Image interpretation, Thermal & Microwave Remote Sensing, Digital Image Processing: Basic Concepts of Rectification and Registration, Enhancement, Classification and accuracy assessment techniques.
- ❖ **Global Navigation Satellite System (16/09/2019 to 27/09/2019):** Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy.
- ❖ **Geographical Information System (30/09/2019 to 25/10/2019):** GIS, databases, topology, spatial analysis and open source software.
- ❖ **RS and GIS Applications (29/10/2019 to 24/11/2019):** Agriculture and Soil, Forestry and Ecology, Geoscience and Geo-hazards, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources.
- ❖ **Basics of Remote Sensing, GIS and GNSS (19/08/2019 to 24/11/2019):** Comprehensive course consisting of above four courses.

The participants can register for individual course of their choice or the entire Programme.

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.

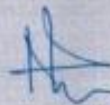
Course Registration

Course updates and other details will be available on URL- <https://elearning.iirs.gov.in/>

- ❖ To participate in the program, organizations/universities/departments/ Institutes have to identify a Coordinator at their end. The coordinator is required to register his/her Institute as nodal centre at: (<https://elearning.iirs.gov.in/edusatregistration/coordinator>).
- ❖ All the participants have to register online through registration page (<https://elearning.iirs.gov.in/edusatregistration/student>) by selecting his/her organization as nodal centre.
- ❖ The Coordinator is required to approve the participants from his/her institute for each course.

Course Funding & Technical Support

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



Dr. Namdev V. Telere
Coordinator

IIRS Outreach Programme, Ushraton
Centre: H.S. & Mahavideyalaya, Aurangabad, Dist. Satara

भारत सरकार
अंतरिक्ष विभाग
भारतीय सुदूर संवेदन संस्थान
4, कालिदास मार्ग, पो. बक्स सं. 135,
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सत्यमेव जयते

डॉ. प्रकाश चौहान
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Dr. Prakash Chauhan
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Department of Space
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e-mail : prakash@irs.gov.in
director@irs.gov.in

No. IIRS/GIT&DL/EDUSAT/2019/50
Date: June 28, 2019

विषय: "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर 50^{वां} आईआईआरएस आउटरीच कार्यक्रम की घोषणा

Sub: Announcement of 50th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 19, 2019.


Dear Sir/ Madam,

पृथ्वी अवलोकन (इसरो) भारतीय अंतरिक्ष अनुसंधान संस्थान का एक महत्वपूर्ण कार्यक्रम है, जिसके अंतर्गत पिछले पचास वर्षों में कई उपग्रहों को अंतरिक्ष में प्रक्षेपित किया गया है। इन उपग्रहों से प्राप्त आंकड़ों का उपयोग प्राकृतिक संसाधन व आपदा प्रबंधन में किया जाता है। भारतीय सुदूर संवेदन संस्थान (भा.सु.सं.) भू-स्थानिक प्रौद्योगिकी के अंतर्गत शिक्षण, प्रशिक्षण तथा क्षमता संवर्धन को समर्पित एक महत्वपूर्ण संस्थान है। इस संस्थान द्वारा अब तक 45 उपग्रह एवं इंटरनेट आधारित आउटरीच पाठ्यक्रम संचालित किए जा चुके हैं। इन पाठ्यक्रमों से लगभग 920 भारतीय विश्वविद्यालयों / संस्थानों के करीब 96,000 से अधिक प्रतिभागी लाभान्वित हुए हैं। इस कार्यक्रम को आगे बढ़ाते हुए हम सहर्ष 50 वें आईआईआरएस आउटरीच कार्यक्रम को प्रारंभ करने की घोषणा करते हैं। 19 अगस्त, 2019 से प्रारंभ होने वाला यह कार्यक्रम "रिमोट सेंसिंग, जीआईएस और जीएनएसएस का मूलभूत पाठ्यक्रम" पर आधारित है। यह कार्यक्रम कार्यरत सरकारी एवं गैर - सरकारी पेशेवरों तथा छात्रों हेतु लक्षित है। यह कार्यक्रम प्रतिभागियों को अपने कार्यस्थल पर रहते हुए ज्ञान को समृद्ध करने का एक अनूठा अवसर प्रदान करेगा।

The Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) programme since last 50 years with launch of several satellite missions. The Indian Remote Sensing Satellite (IRS) series of satellites provide space based information for monitoring and management of natural resources and Disaster Management Support. The Indian Institute of Remote Sensing (IIRS) is a premier Institute under ISRO engaged in training, education and capacity building on use of geospatial technology for natural resources monitoring and disaster management since last five decades. The Institute has so far conducted 45 Satellite and Internet based Outreach Programmes, benefiting more than 96,000 participants from 920 Indian universities/ institutions/user Departments/user ministries in India. To promote the use of Geospatial technology, IIRS announces the 50th IIRS Outreach Program on "Basics of Remote Sensing and Digital Image Analysis" commencing from August 19, 2019. The course is targeted to working professionals and students and will provide a unique opportunity to the learners to enhance their knowledge by attending the course at their respective working places.

यह कोर्स चार मॉड्यूलों में बंटा है रिमोट सेंसिंग और डिजिटल इमेज एनालिसिस, वैश्विक नेविगेशन सैटेलाइट सिस्टम, भौगोलिक सूचना प्रणाली और आरएस और जीआईएस एप्लीकेशन। कोर्स के दौरान पढ़ाये जाने वाले प्रमुख विषयों में रिमोट सेंसिंग, अर्थ अवलोकन सेंसर और प्लेटफॉर्म के बुनियादी सिद्धांत, विभिन्न भूमि कवर सुविधाओं के स्पेक्ट्रल हस्ताक्षर, उच्च व्याख्या, धर्मल और माइक्रोवेव रिमोट सेंसिंग, डिजिटल इमेज प्रोसेसिंग, जीपीएस और जीएनएसएस का परिचय, रिसेवर, प्रसंस्करण विधियों और डिजिटल इमेज प्रोसेसिंग में प्रगति, भौगोलिक सूचना प्रणाली, डाटा बेस, टोपोलॉजी, स्थानिक विश्लेषण और ओपन सोर्स सॉफ्टवेयर और कृषि और मृदा, वानिकी और पारिस्थितिकी, जियोसाइंस और जिओहाजर्ड्स, समुद्री और वायुमंडलीय विज्ञान, शहरी और क्षेत्रीय अध्ययन और जल संसाधन में आरआईएस और जीआईएस एप्लीकेशन आदि सम्मिलित हैं। प्रतिभागी अपनी पसंद के मॉड्यूल या पूरे प्रमाणपत्र पाठ्यक्रम के लिए पंजीकरण कर सकते हैं।

The course consists of four modules namely Remote Sensing and Digital Image Analysis, Global Navigation Satellite System, Geographical Information System and RS and GIS Applications. The major topics covered will include Basic Principles of Remote Sensing, Earth Observation Sensors and Platforms, Spectral Signature of different land cover

भारतीय अंतरिक्ष अनुसंधान संगठन  Indian Space Research Organisation

Indian Institute of Remote Sensing, (ISRO), Dehradun &
Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)
50th IIRS Outreach Programme on Basic of RS, GIS & GNSS

August 19- November 22, 2019

Registered Participants

Sr. No	Registration No.	Student Name	Contact No	email
1	201950082456	Ayesha Lohora	7887834133	ayeshalohora567@gmail.com
2	201950089881	Vishal Chaudhari	8805722398	chaudharivishal014@gmail.com
3	201950083543	Vidya Ghadge	7448151622	vidyaghadge003@gmail.com
4	201950083546	Shripad Sutar	9822699672	shripadsutar814@gmail.com
5	201950083548	Pooja Kumbhar	8108603001	poojakumbhar871@gmail.com
6	201950083551	Pooja Kambale	8637747753	kambalepooja0799@gmail.com
7	201950082619	Priyanka Kumbhar	8625040947	prishakumbhar22@gmail.com
8	201950082621	Priyanka Pawar	7775837295	priyankapawar09306@gmail.com
9	201950082624	Shivani Bhandare	9527529347	bhandareshivani1234@gmail.com
10	201950082626	Akshada Jadhav	9561666504	akshadajadhav160@gmail.com
11	201950082632	Nilam Gharge	9527015604	nilamgharge9@gmail.com
12	201950083917	Prashant Jagdale	9730204510	prashantjagdale630@gmail.com
13	201950083918	Rupesh Pawar	9568375320	prupesh506@gmail.com
14	201950082657	Varsharani Mohite	8605791363	varsharanimohite03@gmail.com


I/C PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)


Dr. Namdev V. Telore
Co-ordinator
IIRS Outreach Programme, Dehradun
Centre: R.S.B. Mahavidyalaya, Aundh, Dist. Satara



Fifty IIRS Outreach Programme
On
Basic of RS, GIS & GNSS

Course Schedule

Sl No.	Course Name	Module Name	From	To
1.	Basic of RS, GIS & GNSS	-	19-08-2019	22-11-2019
2.	Remote Sensing & Digital Image Analysis	Module-1	19 Aug	09 Sep
3.	Global Navigation Satellite System	Module-2	12 Sep	24 Sep
4.	Geographical Information System Module	Module-3	25Sep	24 Oct
5.	RS & GIS Applications	Module-4	29 Oct	22 Nov

August, 2019

Dr. Namdev V. Telare
Co-ordinator
NRS Outreach Programme, Ustrakon
Centre: R. S. & Maheshwary, Aurangabad, Dist. Solapur

Geographic Information System Assistant Course Coordinator: Shri Prasan Kumar Gupta				
25 Sep 19	Wednesday	1600-1730 hrs	Introduction to GIS	Dr. Sameer Saran
26 Sep 19	Thursday	1600-1730 hrs	Geographic Phenomena, Concepts and examples	Shri Prasan Kumar Gupta
27 Sep 19	Friday	1600-1730 hrs	Data Inputting and Editing in GIS	Shri K. Shiva Reddy
28 Sep 19	Saturday			
29 Sep 19	Sunday			
30 Sep 19	Monday	1600-1730 hrs	GIS Data Models (Spatial and Non spatial)	Shri Ashutosh Kumar Jha
01 Oct 19	Tuesday	1600-1730 hrs	Map Projection Concepts & Use in RS & GIS	Dr. Ashutosh Srivastav
02 Oct 19			Mahatma Gandhi	
03 Oct 19	Thursday	1600-1730 hrs	Spatial Analysis - Introductory Concepts and Overview	Shri Prabhakar Alok Verma
04 Oct 19	Friday	1600-1730 hrs	Spatial Analysis - Functionality and Tools	Shri Kapil Oberai
05 Oct 19	Saturday			
06 Oct 19	Sunday			
07 Oct 19	Monday		Dussehra (Maha Navmi)	
08 Oct 19	Tuesday		Dussehra (Vijay Dashmi)	
09 Oct 19	Wednesday		Festival Break	
10 Oct 19	Thursday		Festival Break	
11 Oct 19	Friday	1600-1730 hrs	Demo of QGIS Software – Session 01: Adding GIS Data, Attribute table & Identity tool Change symbology, Create map composers Manage plugins, CRS & EPSG Geo-referencing & Tie-points, RMSE & Rectification	Recorded Lecture
12 Oct 19	Saturday	-	-	-
13 Oct 19	Sunday			
14 Oct 19	Monday	1600-1730 hrs	Demo of QGIS Software – Session 02: (Data Creation/Vector Generation) Digitization, Setting digitizing environment Adding attributes, Editing digitized layer Attribute Queries, Spatial Queries Linking spatial & non-spatial data	Recorded Lecture
15 Oct 19	Tuesday	1600-1730 hrs	DEMO on QGIS 03	Shri Prasan Kumar Gupta
16 Oct 19	Wednesday	1530-1555hrs 1600-1730 hrs	Interactive Session of Demo of QGIS Software – Session 01 & Session 02 & 03 Open Source Software Technology & Tools	Shri Prasan Kumar Gupta
17 Oct 19	Thursday	1600-1730 hrs	Data Quality & Policies OGC, NSDI & GSDI initiatives. Discussion on Internet resources	Dr. Harish Karnatak
18 Oct 19	Friday	1600-1730 hrs	Advanced Geospatial Modeling	Shri Ashutosh Kumar Jha
19 Oct 19	Saturday	-	-	
20 Oct 19	Sunday	-	-	

50th Course on Basic of RS, GIS & GNSS Consist 04 Module

- 1- Remote Sensing & Digital Image Analysis
- 2- Global Navigation Satellite System
- 3- Geographical Information System
- 4- RS & GIS Applications

There will be 01 exam for Basic of RS, GIS & GNSS after completion of the course

And a single exam for each Course no 51th, 52th, 53th and 54th course

Sl. No	Exam Name	Exam Date
1-	Online Examination 51th Course or Module 1 on Remote Sensing and Digital Image Analysis	Last week of the Month
2-	Online Examination 52th Course or Module 1 on Global Navigation Satellite System	Will be conducted first week and last week of the Month
3-	Online Examination of 53 th Course or Module 3 on Geographical Information System	Will be conducted first week and last week of the Month
4-	Online Examination of 54th Course or Module 4 on RS & GIS Applications	Will be conducted first week and last week of the Month



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



अधि: कौशल संकेत/ विस्तार कार्यक्रम प्रमाण पत्र
OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME

COR503232020

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE

यह प्रमाणित किया जाता है कि राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, सातारा, महाराष्ट्र ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम " रिमोट सेंसिंग, भौगोलिक सूचना प्रणाली और ग्लोबल नेविगेशन सैटेलाइट सिस्टम की मूलभूत बातें " में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 19 अगस्त, 2019 से 22 नवंबर, 2019 तक किया गया।

This is to certify that Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Satara, Maharashtra, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on "Basics of Remote Sensing Geographical Information System and Global Navigation Satellite System". This online programme was conducted during August 19, 2019 to November 22, 2019.

दिनांक/ Date: 19-02-2020

देहरादून/ Dehradun

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

Dr. Namdev V. Telore

IIRS Outreach Programme, Dehradun
Centre: R.S.B. Mahavidyalaya, Aundh, Dist. Satara

समूह प्रमुख,

भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह

Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)



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

COR503232020

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, सातारा, महाराष्ट्र कार्यरत डॉ. नामदेव वसंत तेलोरे, ने " रिमोट सेंसिंग, भौगोलिक सूचना प्रणाली और ग्लोबल नेविगेशन सैटेलाइट सिस्टम की मूलभूत बातें " विषय पर इस संस्थान द्वारा दिनांक 19 अगस्त, 2019 से 22 नवंबर, 2019 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **DR. NAMDEV VASANT TELORE**, working with **Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Satara, Maharashtra**, has coordinated the online training course on "**Basics of Remote Sensing Geographical Information System and Global Navigation Satellite System**" conducted by this institute during August 19, 2019 to November 22, 2019.

दिनांक/ Date: 19-02-2020

देहरादून/ Dehradun

प्रमुख,
डिजिटल 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

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