23rd EDUSAT Outreach Programme on 'Basics of Remote Sensing, Geographical Information System and GNSS', sponsored by NNRMS and organized by IIRS/ ISRO, Dept. of Space, Govt. of India, Dehradun 21/8/2017 to 04/12/2017

RAJA SHRIPATRAO BHAGAWANTRAO MAHAVIDYALAYA, AUNDH, SATARA

Indian Institute of Remote Sensing, ISRO, Dehradun Department of Space, Government of India

SUMMARY REPORT OF PROGRAM

Ph.:02161 262324

Date: 31/12/2017

To,

The Principal,

R.S.B. Mahavidyalaya, Aundh

Tal. Khatav, Dist. Satara

I am submitting summary report of Outreach Programme. Please accept it.

- 1. Name of Programme: Basic of RS, GIS & GNSS
- 2. Duration: 21.8.17 to 1.12.17

Total Days: 102

- 3. Number of enrolled students: 26
- 4. Name of Coordinator: Dr. Telore Namdev Vasant
- 5. Name of Resource Persons:
- i) Er. Ashutosh Bhardwaj ii) Dr. P.K.C. Ray
- iii) Dr. D. Mitra
- 6. Objectives of the Programme:
 - i. To know basic concepts of Remote Sensing.
 - ii. To know basic concepts of GIS.
 - iii. To study basic concepts of GNSS.
- 7. Outcome of the Programme:
 - i. Participants become aware of basic concepts of Remote Sensing.
 - ii. Participants become aware of GIS.
 - iii.Participants become aware of applications of GNSS.

Centre Coordinator

(Dr. Namdev V. Telore) Dr. Namdev V. Telore

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

Principal

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)





IIRS Outreach Programme

Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System

August 21 - December 01, 2017

Organised by

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



About IIRS

Indian Institute of Remote Sensing (IIRS), a unit under Indian Space Research Organization (ISRC Department of Space, Government of India is a premier Training and Educational Institute set 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 endeavor 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 user groups in the society, ranging from fresh graduates to policy makers including academia.

The training and education programmes at IIRS includes the short duration customized courses, PG Diploma, Master's Degree (M.Tech and M.Sc.) in various disciplines. IIRS also conducts distance learning programmes under IIRS Outreach Activity.

IIRS Outreach Programme

IIRS Outreach Programme focusses on strengthening the Academia and User Segments in Space Technology & Its Applications using Online Learning Platforms. IIRS distance learning program was initiated in 2007 with the participation of twelve universities in India. Till date, IIRS has successfully conducted 22 programs through live and interactive classrooms (also known as EDUSAT programme) and also launched five online courses under e-learning programme. Currently IIRS distance learning programme is being conducted through following modes:

- 1. Live and Interactive classroom sessions (http://dip.iirs.gov.in)
- 2. E-learning based online courses (http://elearning.iirs.gov.in)

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 Aview 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 46590+ participants from 626+ 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;

IRS 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

Dr. Namdey V. Telore

Co-ordinator

IHRS Outreach Programme Lightadun

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Raja Shripatrao Bhagwantrao

Course Announcement

IIRS announces four courses commencing from August 21st, 2017

- Remote Sensing and Digital Image Analysis (21/08/2017 to 15/9/2017): 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 and Geographical Information System (25/09/2017 to 10/11/2017): Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy, GIS, databases, topology, spatial analysis and open source software.
- RS and GIS Applications (13/11/2017 to 01/12/2017): 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 GIVSS (21/08/2017 to 01/12/2017): Comprehensive course consisting of above three 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- http://www.dlp.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: (http://elearning.iirs.gov.in/edusat_lms/cordinator_registration.php).
- All the participants have to register online through registration (http://elearning.iirs.gov.in/edusat_lms/student_registration.php) 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 and is conducted with due technical support from Amrita Virtual & Interactive E-learning World (A-VIEW).

Programme Reception

Programme can be received through Internet connectivity of 2Mbps or better. Following hardware and software set-up is required at user end:

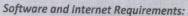
Hardware Requirements:
Dr. Namdev V. Telpre

Co-ordinator

IIRS Outreach Programme, Dehradun

Raja Shripatrao Bhagwantrao Mahavidyalava Aundh/Satas

- High-end Computer/Laptop (Windows OS);
- Good quality web camera (optional);
- Headphone with Microphone (optional) and Speakers;
- Large Display Screen (Projector or TV).



- Desktop based: A-VIEW software (free to download from www.aview.in or IIRS ftp link: ftp://ftp.iirs.gov.in)
- Online live access through http://live.iirs.gov.in with free registration.

Connectivity & Other configurations:

- NKN or any other high speed internet facility (preferably without firewall, with minimum of 2 Mbps bandwidth)
- Network requirements: Port 80 and RTMP (port 1935) protocol should be unblocked from user's computer and Firewall.

Note: Participating Institutions have to bear total expenses for establishment of the classroom facility.

Award of Certificate

Working Professionals: Based on 70% attendance and submission of assignments.

Students: Based on 70% attendance and online examination.

Feedback Mechanism

The participants and participating organizations are invited to attend annual IIRS User Interactive Meet (IUIM) at IIRS Dehradun. The participants can submit their feedback online through IIRS elearning portal. Feedbacks are critically analyzed and implemented in next courses.



Outreach Programme Feedback Session during IIRS User Interaction Meet (IUIM)-2017





IIRS received two national awards for excellence in training for outreach and e-learning programme by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).

Contact Details

IIRS Distance Learning Centre IIN Butreach Programme. Dehradum

Dr. Namdev V. Telore Co-erdinator

Indian Institute of Remote Sensing, Indian Spize Research Organization Department of Space, Govt. of India, 4-Kalidas Road, Dehradun-248001

Email: dlp@iirs.gov.in; Tel: 0135-2524130/4354/4115; Mobile: 9410924417, 7895309151

Monday to Friday (9:30 AM to 05:00 PM)

Raja Shripatrao Bhagwantrao Mshavidyataya, Aundh (Satara)



अंतरिक्ष विभाग भारतीय सुदूर संवेदन संस्थान

4, कालीदास मार्ग, पो. बाक्स सं. 135 देहरादून-248001, भारत दूरमाष: +91-135-2524399 फैक्स:+91-135-2741987, 2748041



Government of India Department of Space

Indian Institute of Remote Sensing

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Telephone: +91-135-2524399

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डॉ. ए. सेंथिल कुमार

निदेशक

संः: आई-आई-आर-एस. / एड्सेट/ 2017/ 23

दिनांक: 10th जुलाई, 2017

विषयः 21 अगस्त 2017 से "सुदूर संवेदन, भौगोलिक सूचना प्रणाली तथा वैग्विक नेविगेशन उपग्रह प्रणाली" पर प्रारम्भ होने वाले 23^{वें} आई-आई-आर-एस- आउटरीच कार्यक्रम की घोषणा के संबंध में।

Ph.:0216 262324

महोदय/ महोदया.

भारतीय अंतरिक्ष अनुसंधान संगठन (इसरो) ने अपने सशक्त/ व्यावसायिक भू-प्रेक्षण कार्यक्रम के अंतर्गत पिछले 50 वर्षों के दौरान कई उपग्रह प्रक्षेपण किए हैं। भारतीय सुदूर संवेदन संस्थान (आईआईआरएस) भारतीय अन्तरिक्ष अनुसंधान संगठन (इसरो) का एक प्रमुख संस्थान है जो पिछले पांच दशकों से प्राकृतिक संसाधनों की निगरानी और आपदा प्रबंधन के लिए भू-स्थानिक प्रौद्योगिकी के इस्तेमाल पर प्रशिक्षण, शिक्षा तथा क्षमता निर्माण में जुड़ा हुआ है। इस संस्थान द्वारा अब तक 22 उपग्रह/ इंटरनेट आधारित आउटरीच पाठ्यक्रम संचातित किए जा चुके हैं। इन पाठ्यक्रमों से लगभग 631 भारतीय विश्वविद्यालयों/ संस्थानों के करीब 49,458 से अधिक प्रतिभागी लाभान्वित हुए हैं।

अंतरिक्ष आधारित भू-स्तरीय प्रौद्योगिकियों और इसकी उपयोगिताओं की पूरी संभावना को बढ़ावा देने के लिए. आई.आई.आर.एस. 21 अगस्त 2017 से दिसंबर 01, 2017 तक "बेसिक्स ऑफ रिमोट सॅसिंग, जीआईएस और जीएनएसएस" पर 23 वीं आउटरीच कार्यक्रम की घोषणा करता है। इस कार्यक्रम में तीन पाठ्यक्रम हैं जिनमें रिमोट सेंसिंग और डिजिटल छवि विश्लेषण (21 अगस्त - 15 सितंबर, 2017), **ग्लोबल नेविगेशन सैटेलाइट सिस्टम** (25 सितंबर से 10 नवंबर, 2017) तथा **औगोलिक सूचना प्रणाली** एवं आरएस और जीआईएस एप्लीकेशन (13 नवंबर-दिसंबर 1, 2017)। प्रतिभागी अपनी पसंद के पाठ्यक्रम अथवा पूरे कार्यक्रम के लिए भी पंजीकरण कर सकते है।

यह प्रतिभागियों के लिए एक अच्छा अवसर है जिसमे वे सीघे अपने निवास स्थान से प्रतिदिन डेढ़ घंटे समर्पित करके इस अवसर से लाभान्वित हो सकते हैं । यह कार्यक्रम अंतरिक्ष विभाग, और क्षमता निर्माण के लिए भारत सरकार द्वारा प्रायोजित है। कार्यक्रम के सफलतापूर्वक समापन के बाद प्रतिभागियों को आईआईआरएस, इसरो द्वारा प्रमाण पत्र दिया जाएगा।

कार्यक्रम 1600 - 1730 घंटे बजे के दौरान निर्धारित है तथा प्रति सप्ताह 4/5 दिन आयोजित किया जाएगा। इस कार्यक्रम की घोषणा, ब्रोशर और शेड्यूल की एक कॉपी आपके संगठन के परिसंचरण और आपके के अवलोकन के लिए इसके साथ भेजी जा रही है। कार्यक्रम / पाठ्यक्रम यूजी और पीजी छात्रों / शोधकर्ताओं / वैज्ञानिक / तकनीकी कर्मचारियों एवं इच्छुक व्यक्तियों के लिए खुला है। इसके व्यापक प्रचार तथा प्रसार हेतु आपके संगठन से अधिकतम भागीदारी के लिए आपके सहयोग की अपेक्षा है। इस पत्र के साथ कार्यक्रम के अन्य विवरण संलग्न है।

अधिक जानकारी के लिए कृपया आईआईआरएस की वेबसाइट <u>http://dlp.iirs.gov.in</u> पर लॉग इन कर सकते है। शुभकामना सहित,

सहपत्रः पाठ्यक्रम अनुसूची

भारतीय अंतरिक्ष अनुसंघान संगठन इसरी isra Indian Space Res

Dr. Namdev V. Telore Co-erdinator

IIRG Outreach Programme, Dehradee

Raja Shripatrao Bhagwantrao

Centre R S R Mahavidyalawa Aundh Dist Satara

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Dr. A. Senthil Kumar Director



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No.: IIRS/GIT&DL/EDUSAT/2017/2

Ph.:0216 Date: 10TH JULY, 2017

Sub: Announcement of 23th IIRS Outreach Program on "Basics of Remote Sensing, GIS and GNS" commencing from 21 August 2017.

Dear Sir/ Madam,

As you aware that the Indian Space Research Organization (ISRO) has a vibrant Earth Observation (EO) programme with many satellite missions launched during last 50 years. The Indian Institute of Remote Sensing (IIRS) is a premier Institute of 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 22 Satellite and Internet based Outreach Programmes, benefitting more than 49,458 participants from 631 Indian universities/ institutions/user Departments/user ministries in India.

To promote the full potential of space based geospatial technologies and its use, IIRS announces 23rd Outreach Programme on "Basics of Remote Sensing, GIS & GNSS" commencing from August 21, 2017 to December 01, 2017. The Programme consists of three courses namely Remote Sensing and Digital Image Analysis (August 21 - September 15, 2017), Global Navigation Satellite System (September 25 - November 10, 2017) and Geographical Information System and RS and GIS Applications (November 13- December 01, 2017). The participants can register for individual course of their choice or the entire programme also.

It is a unique opportunity to learn directly by devoting one and half hours on each day from the place of stay of the participant. The Programme can be attended without any fee and will be available freely live through internet by utilizing freely available A-view software (www.aview.in). This programme is sponsored by Department of Space, Government of India for capacity Building and skill development in the area of geospatial technology and its applications. After successful completion of the programme the participants will be awarded with certificate from IIRS, ISRO.

The programme is scheduled during 1600 Hrs. - 1730 Hrs. and will be conducted 4/5 days in a week. A copy of the announcement brochure and schedule of this programme is forwarded herewith for your kind perusal and also for wider circulation in your organisation. The programme/course is open to UG & PG students/researchers/scientific/technical staff and interested individuals. We need your support for wide publicity and maximum participation from your organisation.

Further details of the programme are enclosed with this letter. You may also visit IIRS website http://dlp.iirs.gov.in for more details. With regards and best wishes,

Encl: Brochure and Course Schedule

Senthil Kumar)

Dr. Namdev V. Telore Co-ordinator

भारतीय अंतरिक्ष अनुसंधान संगठन इसरी डान्व

IIRG Outreach Programme, Dehradun

Raja Shripatrao Bhagwantrao

Indian Space Research







Twenty-third IIRS Outreach Programme Basic of RS, GIS & GNSS

Tentative Schedule

SI No.	Module Name	From	То	
1	Remote Sensing and Digital Image Analysis	22-08-2017	15-09-2017	
2	Global Navigation Satellite System & Geographical Information System	25-09-2017	10-11-2017	
3	RS & GIS Applications	13-11-2017	04-12-2017	

Technical Support from

A-VIEW, Amrita University, Coimbatore

July, 2017

Dr. Namdev V. Telore Co-ordinator

IIRS Outreach Programme, Schradun Centre:R.S.B.Mahavidyalaya, Aundh, Go., Satara

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)



		Mod	ule 1: Remote Sensing & Digital Image Analysis			
Date	Day	Time	dule/ Course Coordinator: Ms. Minakshi Kumar			
21 Aug 17	Monday	1600-1730 hrs	Course Inauguration and Introductory Lecture	Speaker		
22 Aug 17	Tuesday	1600-1730 hrs	Basic Principles of Remote Sensing	Dr. A. Senthil Kumar		
23 Aug 17	Wednesday	1600-1730 hrs	Earth Observation Sensors and Platforms	Mrs. Manu Mehta		
24 Aug 17	Thursday	1600-1730 hrs	Thermal Remote Sensing	Mr. Vinay Kumar		
25 Aug 17			Dr. Yogesh Kant			
26 Aug 17			Ganesh Chaturthi			
27 Aug 17	Saturday					
28 Aug 17			Sunday	A SHELL SHOW THE SHE		
	Monday	1600-1730 hrs	Spectral Signatures of Different Land cover Features and Visual Image interpretation	Dr. Hina Pande		
29 Aug 17	Tuesday	Offline (Morning Session)	RS and Image Interpretation Practical	By University Coordinate		
30 Aug 17	Wednesday		BREAK			
31 Aug 17	Thursday	1600-1730 hrs	Digital Image Processing: Basic Concepts Rectification and	I W. M. LUM		
01 Sep 17	Friday	1600-1730 hrs	Registration Image Enhancement techniques	Mrs. Minakshi Kumar		
			image Emancement techniques	Dr. Poonam S. Tiwari		
02 Sep 17			Saturday			
03 Sep 17			Sunday			
04 Sep 17	Monday		BREAK-ONAM			
05 Sep 17	Tuesday	1600-1730 hrs				
06 Sep 17			Image Classification Techniques and Accuracy Assessment	Dr. Poonam S. Tiwari		
	Wednesday	1600-1730 hrs	Microwave Remote Sensing	Mr. Shashi Kumar		
07 Sep 17	Thursday	1600-1730 hrs	Hyperspectral Remote Sensing	Mrs. Shefali Agarwal		
08 Sep 17	Friday	Offline - as per computer lab availability Morning Session	Image Processing Hands-on and Practical Assignment	By University Coordinator		
09 Sep 17	THE REPORT	Interning Session	Saturday			
10 Sep 17	1125 33		Sunday			
11 Sep 17	Monday	1600-1730 hrs	Demonstration: Image Processing	I Marie I Mari		
12 Sep 17	Tuesday	Offline - as per		Mrs. Minakshi Kumar		
	, account	computer lab availability	Practical Assignment submission by Participants to respective coordinators and evaluation to be done by respective coordinators			
3 Sep 17	Wednesday	1600-1730 hrs	Panel Discussion Moule-1	Faculty of Module-1		
4 Sep 17		BREAK For Examination				
15 Sep 17	Friday	9:30 Hrs to 17:00 Hrs	Online Examination of Module-1	Edusat Team		

Dr. Namdev V. Telore
Co-ordinator
RS Outreach Programme, Indus

IIRS Outreach Programme, Hun Centre:R.S.B.Mahavidyalaya, Aundis, 1995 Satara PRINCIPAL Reja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)

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	Geographical	Information System Module 2	al Navigation Satellite System and	THE RESERVE TO SERVE THE PARTY OF THE PARTY
25 Sep 17	Monday	1600-1730 hrs	urse Coordinator: Shri Ashutosh Bhardwaj & Shri Prasun Kum Introduction to GPS and GNSS	
26 Sep 17	Tuesday	1600-1730 hrs	CDC	
27 Sep 17	Wednesday	1600-1730 hrs	Satellites based Augmentation systems & GPS Aided Fr. Ashutash Phand	
28 Sep 17	Thursday	1600-1730 hrs	and GEO Augmented Navigation (GAGAN) GPS signal characteristics, Data formats (broadcast, Shri S. Raghave	
29 Sep 17	1 1 1 2 1 1 1 1 1		precise ephemeris) BREAK	om o. Ragnavendra
30 Sep 17				
01 Oct 17			Dussehra -Saturday	
			Sunday	
02 Oct 17	Monday		Gandhi Jayanthi	
Date	Day	Time	Topic	Cmasker
03 Oct 17	Tuesday	1600-1730 hrs	Indian Regional Navigation Satellite System (IRNSS)	Speaker Er. Ashutosh Bhardwaj &
04Oct 17	Wednesday	1600-1730 hrs	DGPS demonstration (Pre-recorded followed by live	Shri Kamal Pandey Shri S. Raghavendra
05 Oct 17	Thursday	1600-1730 hrs	query session) Mobile Mapping	
06 Oct 17	Friday			Dr. Harish Chandra Karnata
07 Oct 17	Triday		BREAK	
08 Oct 17			Saturday	
		Geograph	Sunday ical Information System	
09 Oct 17		Module/ Course C	Coordinator: Shri Prasun Kumar Gupta	
	Monday	1600-1730 hrs	Introduction to GIS	Dr. Sameer Saran
0 Oct 17	Tuesday	1600-1730 hrs	Geographic Phenomena, Concepts and examples Shri P K Gupta	
1 Oct 16	Wednesday		Break	
12 Oct 17	Thursday	1600-1730 hrs	Data Inputting and Editing in GIS	Shri Shiva Reddy
3 Oct 17	Friday	1600-1730 hrs	GIS Data Models (Spatial and Non spatial)	Shri Ashutosh Kumar Jha
4 Oct 17			Saturday	
5 Oct 17			Sunday	
6 Oct 17	Monday	1600-1730 hrs	Map Projection Concepts & Use in RS & GIS	Dr. Ashutosh Srivastav
7 Oct 17	Tuesday	1600-1730 hrs	Spatial Analysis- Introductory Concepts and Overview	Shri Prabhhar Alok Verma
8 Oct 17			BREAK	
9 Oct 17			Diwali	
0 Oct 17			BREAK	
1 Oct 17	THE REAL PROPERTY.		Saturday	
2 Oct 17			Sunday	
3 Oct 17	Monday	1600-1730 hrs	Spatial Analysis- Functionality and Tools	Ch-i V- 11 Ol 1
24 Oct 17	Tuesday	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	Shri Kapil Oberai Shri P K Gupta
25 Oct 17	Wednesday	1600-1730 hrs	Geo-referencing & Tie-points, RMSE & Rectification Demo of QGIS Software – Session 02: (Data Creation/Vector Generation) Digitization ,Setting digitizing environment Adding attributes to layer, Editing digitized layer Attribute Queries, Spatial Queries	Shri P K Gupta
(017	The state of the s		Linking spatial & non-spatial data	
6 Oct 17 7 Oct 17	Thursday	1600-1730 hrs	Open Source S/w Technology & Tools	Shri P K Gupta
	Friday	1600-1730 hrs	Data Quality & Policies OGC, NSDI & GSDI	Dr. Harish Karnatak

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

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PRINCIPAL Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)



29 Oct 17			Sunday			
30 Oct 17	Monday	1600-1730 hrs	Spatial Data Management using RDBMS-Demo on PostGRE SQL+ Post GIS	Shri Kapil Oberai		
31 Oct 17	Tuesday	1600-1730 hrs	3D GIS and Application including Trivim	Shri Shiva Reddy		
01 Nov 17	Break					
02 Nov 17	Thursday	1600-1730 hrs	Geo-Web Services: Technical Concepts and Dr. Ha Applications			
03 Nov 17	Friday		Uncertainty in GIS and Error Propagation	Shri Hari Shankar		
04 Nov 17	Saturday – Guru Nanak Birthday					
05 Nov 17	Sunday					
06 Nov 17	Monday	1600-1730 hrs	Customization in GIS	Shri Kamal Pandey		
07 Nov 17	Tuesday	1600-1730 hrs	Recent Trends in Geoinformatics	Dr. Sameer Saran		
08 Nov 17	Wednesday	1600-1730 hrs	Panel Discussion of Module 2	Faculty of Module-2		
09 Nov 17	Thursday	Break				
10 Nov 17	Friday	9:30 Hrs to 17:00 Firs	Online Exam - Global Navigation Satellite System and Geographical Information System	Edusat Team		

			Module-3 RS & GIS Applications Module/ Course Coordinator: Dr. Arijit Roy	
Date	Day	Time	Topic	Speaker
13 Nov 17	Monday	1600-1730 hrs	Space Technology & its applications in governance	Dr. S. K Srivastav
14 Nov 17	Tuesday	1600-1730 hrs	Remote Sensing and GIS Applications in Soil Resource Assessment	Dr. Suresh Kumar
15 Nov 17	Wednesday	1600-1730 hrs	Remote Sensing Applications in Agriculture- Crop Inventory & Yield Forecasting	Dr. N.R. Patel
16 Nov 17	Thursday	1600-1730 hrs	RS & GIS Applications in Forestry and Ecology	Dr. Sarnam Singh
17 Nov 17	Friday	1600-1730 hrs	Engineering Geology with emphasis on landslide studies	Dr. Shovan Chattora
18 Nov 17			Saturday	
19 Nov 17	Sunday			
20 Nov 17	Monday	1600-1730 hrs	Geology and Geomorphology	Dr. R.S. Chatterjee
21 Nov 17	Tuesday	1600-1730 hrs	Space-enabled Products & Services for Disaster Management :Indian Initiatives	Dr. P.K.C.Ray
22 Nov 17	Wednesday	1600-1730 hrs	Geospatial Technology for climate change studies	Dr. Arijit Roy
23 Nov 17	Thursday	1600-1730 hrs	RS & GIS Applications to Water Resources Management	Dr. S.P Aggarwal
24 Nov 17	Friday	1600-1730 hrs	RS & GIS for Coastal Zone Management	Dr. D. Mitra
25 Nov 17		7 2 12 12	Saturday	
26 Nov 17			Sunday	
27 Nov 17	Monday	1600-1730 hrs	Remote Sensing Application to Atmospheric & Marine Environment	Dr. A.K Mishra
28 Nov 17	Tuesday	1600-1730 hrs	RS & GIS Application in Urban & Regional Planning	Dr. Pramod Kumar
29 Nov 17	Wednesday	1600-1730 hrs	Geo-web Services and mobile GIS in governance	Dr. Harish Karnatak
30 Nov 17	Thursday	1600-1730 hrs	Panel Discussion Module-3 Faculty of	
04 Dec 17	Monday	9:30 Hrs to 17:00 Hrs	Online Examination -RS & GIS Applications Educat Team	

Dr. Namdev V. Telore Ce-ordinater IIRS Outreach Programme, Lebradun Cantre:R.S.B.Mahavidyalaya, Aundh, Dist. Satara

amme PRINCIPAL Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)



INDIAN INSTITUTE OF REMOTE SENSING

Indian Space Research Organisation Department of Space, Government of India





Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Dist. Satara

Twenty-third IIRS Outreach Programme

Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System

August 21 to December 01, 2017

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Dr. Namdev V. Telore Co-ordinator

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भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING भारतीय अंतरिक्ष अनुसंघान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विमाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA

इसरो डिंग्ड

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

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संस्थान की भागीदारी का प्रमाण पत्र **CERTIFICATE OF PARTICIPATION OF INSTITUTE**

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This is to certify that Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehardun on "Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System". This online programme was conducted during August 21, 2017 to

December 04, 2017 प्रमुख, दिनाँक/ Date: जियो

देहारादन/ Dehradun

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

समूह निदेशक. भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह

Group Director, Geospatial Technologies & Outreach Programme Group, IIRS

Kommane

WL Co-ordinater

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भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

मारतीय अंतरिक्ष अनुसंघान संगठन/ INDIAN SPACE RESEARCH ORGANISATION अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



बहि:परिसर संपर्क/विस्तार कार्यक्रम प्रमाण पत्र OFF - CAMPUS OUTREACH CERTIFICATE PROGRAMME समन्वयक प्रमाण पत्र

COR233232018

समन्वय का प्रमाणपत्र CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि राजा श्रीपतराव भगवंतराव महाविद्यालय. औध, महाराष्ट्र में कार्यरत डॉ नामदेव वसंत तेलोरे, ने 'रिमोट सेंसिंग की मुल बातें, भौगोलिक सुचना प्रणाली एवं वैश्विक नेविगेशन सैटेलाइट प्रणाली" विषय पर इस संस्थान द्वारा दिनांक 21 सितम्बर 2017 से 04 दिसम्बर 2017 तक संचालित ऑनलाइन प्रशिक्षण पाठयक्रम को समन्वित किया।

This is to certify that DR. DR. NAMDEV V. TELORE, working with Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, 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 21, 2017 to December 04, 2017.

16-01-2018 दिनाँक/ Date देहारादून/ Dehradun

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

रूस, रं, प्रीवास्त

समूह निदेशक

भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह Group Director, Geospatial Technologies & Outre ach Programme Ctiv