

**15th Outreach Certificate Course on “Basic of RS, GIS and GNSS” sponsored by
National Natural Resources Management System (NNRMS) and organized by Indian
Institute of Remote Sensing (IIRS) Indian Space Research Organisation (ISRO)
Dehradun 10/08/2015 to 27/11/2015**

RAJA SHRIPATRAO BHAGAWANTRAO MAHAVIDYALAYA, AUNDH, SATARA

**Indian Institute of Remote Sensing, ISRO, Dehradun
Department of Space, Government of India
SUMMARY REPORT OF PROGRAM**



Date: 29/11/2015

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 Remote Sensing, Geographical Information System and Global Navigation Satellite System

2. Duration: 10/08/2015 to 27/11/2015

Total Days: 109

3. Number of enrolled students: 27

4. Name of Coordinator: Dr. Telore Namdev Vasant

5. Name of Resource Persons: i) Ms. Minakshi Kumar ii) Mr. Ashutosh Bhardwaj iii) Mr. Prasun Kumar Gupta

6. Objectives of the Programme:

- i. To know basic concepts of Remote Sensing and Digital Image Analysis.
- ii. To know basic concepts of Geographical Information System.
- iii. To know basic concepts of Global Navigation Satellite System.
- iv. To study applications of RS and GIS.

7. Outcome of the Programme:

- i. Participants become aware of basic concepts of Remote Sensing and Digital Image Analysis.
- ii. Participants become aware of Geographical Information System.
- iii. Participants become aware of Global Navigation Satellite System.
- iv. Participants become aware of RS and GIS.

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
PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

भारतीय अंतरिक्ष अनुसंधान संगठन
भारतीय सुदूर संवेदन संस्थान

4, कालीदास मार्ग, पो. चक्रवर्त 135,
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डॉ. ए. सेन्थिल कुमार

निदेशक

Dr. A. Senthil Kumar
Director



सत्यमेव जयते

Government of India
Department of Space
Indian Institute of Remote Sensing

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Dehradun - 248 001, India
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No.: IIRS/EDUSAT/2015/15
Date: May 1, 2015

Sub: Announcement of fifteenth IIRS Outreach Programme on "Basics of Remote Sensing, GIS & GNSS", schedule to be conducted during August 10-November 27, 2015.

Dear Sir/Madam,

As you are aware that Indian Space Research Organisation (ISRO) has a vibrant Earth Observation (EO) Programme of many Satellite Missions launched during past 27 years evolved through National Natural Resources Management System (NNRMS), providing mainstream data for natural resources and disaster management both nationally and globally. IIRS being a premier Institute in Capacity Building through training, education and research, has so far conducted 14 Satellite/Internet based Outreach Programmes, benefiting more than 20,000 participants from around 222 institutions. To promote the full potential of space and geospatial technologies and its use, IIRS announces fifteenth Outreach Programme on "Basics of Remote Sensing, GIS & GNSS" commencing from August 10, 2015. It is a unique opportunity to learn directly by devoting one and half hours on each day from the place of stay of the participation. The course can be attended without any cost. Programme can be received live through internet by utilizing A-VIEW software (www.aview.itit) available freely or Satellite Link/Learning Management System (i.e. Train Net). This Programme is sponsored by NNRMS, Department of Space, Government of India for Capacity Building. The successfully completed 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 of this course is forwarded herewith for your kind perusal and also for circulation in your university/institute/organisation. The 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 university/ institute/organisation.

In case you need any further information about the programme, please feel free to contact Dr. Harish Karnatak, Coordinator, Ph: 0135-2524332 (Off), EDUSAT Studio Ph.: 0135-2524130 (Off), email: harish@iirs.gov.in, edusat@iirs.gov.in or Shri Prasun Kumar Gupta, Course Officer, Ph. 0135-2524125 (Off), email: prasun@iirs.gov.in. OR visit IIRS website <http://www.iirs.gov.in/Edusat/News>

Thanking you.

edusat2004@gmail.com

Yours Sincerely,

A. Senthil Kumar
(A. Senthil Kumar)

H. V. Telore

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

भारतीय अंतरिक्ष अनुसंधान संगठन Indian Space Research Organisation

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

IRS Outreach Programme

The IRS Outreach Programme, which started in 2007 with 12 universities/institutions, has now grown substantially. Currently, 222 universities/institutions spread across India covering 29 States and 2 Union territories are participating with IRS. The beneficiaries of the programme include:

- Central & State Government Organisations/Departments
- Research Institutes
- Geographical Industries
- NGOs
- Individuals with good internet connectivity

Feedback Mechanism

IRS has conducted its workshops in 2007, 2009, 2010, 2013, 2014 and 2015 to take feedback from participating institutions to improve the quality of future courses.



Participants of 10th Outreach Feedback session during IRS Outreach Programme (2014-2015)

Awards

Received National Awards for excellence in training for IRS Outreach Programme and e-Learning Programme during 1st National Symposium on Excellence in Training conducted on April 13-12, 2015 in New Delhi, by Department of Personnel & Training (DoPT), Govt. of India, in collaboration with United Nations Development Programme (UNDP).



Dr. Namdev V. Telare
Coordinator
IRS Outreach Programme, Dehradun
Centre S & M, Dehradun, Uttarakhand, India

About IRS

Indian Institute of Remote Sensing (IIRS) under the National Remote Sensing Organisation (NRSO), Department of Space, Govt. of India is a premier training and educational institute set up for developing training in the field of Remote Sensing, Geoinformatics and GPS. The Institute is known as Indian Photo Interpretation Institute (IPRI), founded in 1986, the Institute boasts to be the first of its kind in entire South-East Asia. While marking its primary endeavour to build capacity among the user community by training mid-career professionals, the Institute has enhanced its capabilities and evolved many training & education programmes that are tailored to meet the requirements of various target groups, ranging from fresh-graduates to policy makers including academicians.

IRS Outreach programme is popular across India. So far, 14 programmes have been conducted benefiting 19,000 participants.

IRS also conducts e-learning Programme (<http://www.irs.gov.in>) on Remote Sensing and Geoinformation Science. First course in its progress and over 2,000 participants have registered for the course.

Contact Details

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Indian Institute of Remote Sensing, Indian Space Research Organisation,
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Dr. Chandan T/C PRINCIPAL
Rajesh Kumar Bhagwantrao
Mahavidyalaya, Aundh (Satara)

11th IIRS Outreach Programme



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

AUGUST 10 – November 27, 2015

Sponsored by
National Natural Resources Management System (NNRMS)

Organized by
Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Govt. of India
Dehradun
www.irs.gov.in

About the Course

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. IRS strikes the Ko-Band facility of INSAT-3DR, an IRS Satellite and Initiator, for conducting Distance Learning Programme to primarily complement the educational programmes of the Indian Universities. The target group includes students at undergraduate/graduate level and faculty/researchers at different universities/institutions. Under its Outreach Programme, IRS has established its own Teaching and studio and uplinking facility in the campus under national beam coverage of IRS satellites, connecting numerous classrooms and users. Internet bandwidth is also used as an alternative option. IRS has successfully conducted 14 such courses so far with participation of over 22,000 students from 222 institutions. This programme can be received live using either one of the options i.e. (i) A-VIEW e-learning tool developed by Ananta University in internet environment with login permission, (ii) Satellite Interactive Terminal (SIT) Classroom facility at university with LMS S/W tool (i.e. Blackboard). Course participation has increased with the option of A-VIEW software as it has also enabled participation of many who do not have the SIT facility.

Curriculum

The course is divided into 4 modules:

- Remote Sensing and Digital Image Analysis
- Global Navigation Satellite System
- Geographical Information System
- RS and GIS Applications

Topics include

- 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
- Introduction to GPS and GNSS, receivers, processing methods, errors and accuracy

- GIS, data bases, topology, spatial analysis and open source softwares
- RS & GIS Applications: Agriculture and Soil, Forestry and Ecology, Geoscience and Geomatics, Marine and Atmospheric Sciences, Urban and Regional Studies and Water Resources

Course study materials like: Lecture pdf, lecture video, lecture notes, open source software, practical data & hardcopy of practical lecture etc. will be made available through IRS IPRI site and lecture videos are uploaded in Youtube Channel (<http://www.youtube.com/user/irsindia120142>)

Target Participants

- Student of undergraduate course/ Postgraduate course (any level)
- Technical/Scientific Staff of Central/State Government Departments
- Faculty / researchers at university / institutions are also eligible to participate in this course.
- Individuals, who have good internet bandwidth facility may also participate.

Applications of participants have to be duly sponsored by their university/institution and forwarded through coordinators from respective centres. During receiving programmes under CEC-UGC/CET / other networks can also participate. Institutions on high speed National Knowledge Network (NKN) can also participate using A-VIEW softwares.

Course Fee

The Course is free of cost.

Course Registration

Online registration is open through URL: <http://irs.gov.in/Education/News/>, the online registration is mandatory. No hard copy application will be accepted.

Sponsors & Technical Support

The programme is sponsored by National Natural Resources Management System – Standing Committee on Training and Education (SC-T), Indian Space Research Organisation, Department of Space, Government of India and is conducted with due technical help from Satellite Communications & Navigation Programme (SCNP), ISRO,

Development and Educational Committee (A-VIEW), Ananta University, National Information and Communication Technology

Programme Reception

NRSO/ NKN/CET/ other institutions / Universities may participate in IRS Outreach Programme by using any one of the following setups:

Option-I: A-VIEW internet based streaming

Hardware Requirements:

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

Software and Internet Requirements

- Desktop based: A-VIEW software (free to download from www.aview.in or irs.gov.in); [ftp://ftp.irs.gov.in](http://ftp.irs.gov.in))
- Web based: <http://www.aview.in>
- National Knowledge Network or any other high speed internet facility (Preferably without firewall, bandwidth (2 mbps minimum))
- Network requirements Port 80 and RTMP (port 1935) protocol should be unblocked from users' computer

Option-II: Satellite Based (SIT) / NOT users can receive if hub is operational at CET-NCERT

- 1.2 m Satellite Interactive Terminal (SIT) Antenna
- Indoor unit (DU) i.e. set top box
- PC with software for LMS
- LCD Projector
- Classroom


Note: Only existing users of National Knowledge Network (NKN), CEC-UGC/CET-NCERT/AICTE/IGNOU can participate in this programme.


Dr. Chandan T/C PRINCIPAL
Rajesh Kumar Bhagwantrao
Mahavidyalaya, Aundh (Satara)

**15th IIRS Outreach Programme on
Basics of RS, GIS & GNSS**

Participants Details

Sl. No	Registration Num	First Name	Last Name	email (Mandatory)	department Name	Mob No
1	1436859825	Javed	Atar	Atarjaved73@gmail.com	Chemistry	9763864474
2	1436859336	Jagannath	Barakade	barkadejd@gmail.com	Geography	9423890110
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21	1436860208	Dhanashri	sakhare	sakhared321@gmail.com	Geography	9503461472
22	1436859314	Tushar	Sawant	pankajkumar.sawant@gmail.com	Geography	9503821250
23	1436860199	Ajit	Sawant	ajit7442@gmail.com	Geography	9920656301
24	1436859763	Sanjay	Shinde	smsinde.geog@gmail.com	Geography	7875780749
25	1436859295	Yogesh	Shinde	yshinde1996@gmail.com	Geography	9975628714
26	1436862383	Akshay	Todake	avtodake@gmail.com	Geography	9657555951
27	1436859800	Tejas	Waghmare	waghmare93@gmail.com	Geography	7743952291
28	1436859791	Vishnu	Waghmare	ykwaigh123@gmail.com	Geography	7038269738


Dr. Namdev V. Telore
Co-ordinator
IIRS Outreach Programme, Baramulla
Centre: N.S. & Mahavidyalaya, Aundh, (Satara)


17C PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)



Fifteenth IIRS Outreach Programme
on
**Basics of "Remote Sensing, Geographical Information
System and Global Navigation Satellite System"**
August 10 - November 27, 2015

Tentative Time Table

Module	Name of the Module	Duration	
		From	To
1	Remote Sensing and Digital Image Analysis	10-08-2015	05-09-2015
2	Global Navigation Satellite System	07-09-2015	24-09-2015
3	Geographical Information System	28-09-2015	27-10-2015
4	RS & GIS Applications	29-10-2015	27-11-2015



Conducted by
Indian Institute of Remote Sensing
Indian Space Research Organisation
Department of Space, Government of India
4-Kalidas Road, Dehradun, India

Technical Support from
CEC - UGC, New Delhi
CIET - NCERT, New Delhi
A-VIEW - NMEICT, Amrita University, Coimbatore
DECU-ISRO, Ahmedabad

Under the aegis of
National Natural Resources Management System (NNRMS)

April, 2015

170 PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

MODULE 1: REMOTE SENSING & DIGITAL IMAGE ANALYSIS
 MODULE COORDINATOR: Ms. Minakshi Kumar (minakshi@iirs.gov.in)
 Date: 10 Aug – 03 Sep, 2015



Date	Day	Time	Topic
10 Aug 15	Monday	1600-1700 hrs	Introductory Lecture
		1600-1700 hrs	Basic Principles of Remote Sensing
11 Aug 15	Tuesday	1700-1730 hrs	Interactive Session (Query)
13 Aug 15	Thursday	1600-1700 hrs	Earth Observation Sensors and Platforms
		1700-1730 hrs	Interactive Session (Query)
14 Aug 15	Friday	1600-1700 hrs	Spectral Signatures of Different Land cover Features and Visual Image Interpretation
		1700-1730 hrs	Interactive Session (Query)
15 Aug 15	Saturday (Independence Day)		
16 Aug 15	Sunday		
17 Aug 15	Monday	Offline (Morning Session)	RS and Image Interpretation (II) Practical
		1600-1700 hrs	Microwave Remote Sensing
		1700-1730 hrs	Interactive Session (Query)
18 Aug 15	Tuesday	1600-1700 hrs	Thermal Remote Sensing
		1700-1730 hrs	Interactive Session (Query)
19 Aug 15	Wednesday	1600-1700 hrs	Digital Image Processing: Basic Concepts Rectification and Registration
		1700-1730 hrs	Interactive Session (Query)
20 Aug 15	Thursday	1600-1700 hrs	Image Enhancement techniques
		1700-1730 hrs	Interactive Session (Query)
21 Aug 15	Friday	1600-1700 hrs	Image Classification Techniques and Accuracy Assessment
		1700-1730 hrs	Interactive Session (Query)
22 Aug 15	Saturday		
23 Aug 15	Sunday		
24 Aug 15	Monday	Offline - as per computer lab availability	Image Processing Hands-on
25 Aug 15	Tuesday	Offline (Morning Session)	Image Processing Hands-on and Practical Assignment
		1700-1730 hrs	Interactive Session (Query)
26 Aug 15	Wednesday	1600-1700 hrs	Demonstration: Image Processing
		1700-1730 hrs	Interactive Session (Query)
27 Aug 15	Thursday	To be decided	
28 Aug 15	Friday Onam		
29 Aug 15	Saturday		
30 Aug 15	Sunday		
31 Aug 15	Monday	1600-1700 hrs	Hyperspectral Remote Sensing
		1700-1730 hrs	Interactive Session (Query)
1 Sep 15	Tuesday	1600-1700 hrs	Overview of Open Source Tools – I
		1700-1730 hrs	Interactive Session (Query)
2 Sep 15	Wednesday	1600-1700 hrs	Overview of Open Source Tools – II
		1700-1730 hrs	Interactive Session (Query)
3 Sep 15	Thursday	Offline - as per computer lab availability	Practical Assignment submission and evaluation.


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 Raja Shripatrao Bhagwantrao
 Mahavidyalaya, Aundh (Satara)

MODULE 2: GLOBAL NAVIGATION SATELLITE SYSTEM
 MODULE COORDINATOR: Shri Ashutosh Bhardwaj (ashutosh@iirs.gov.in)
 Date: 07 Sep – 21 Sep, 2015



Date	Day	Time	Topic
7 Sep 15	Monday	1600-1700 hrs	Introduction to GPS and GNSS
		1700-1730 hrs	Interactive Session (Query)
8 Sep 15	Tuesday	1600-1700 hrs	GPS receivers, processing methods, errors and accuracy
		1700-1730 hrs	Interactive Session (Query)
9 Sep 15	Wednesday	1600-1700 hrs	Satellites based Augmentation systems
		1700-1730 hrs	Interactive Session (Query)
10 Sep 15	Thursday	1600-1700 hrs	GPS signal characteristics, Data formats (broadcast, precise ephemeris)
		1700-1730 hrs	Interactive Session (Query)
11 Sep 15	Friday	1600-1700 hrs	Demonstration on Data collection using Geodetic receivers (recorded)
		1700-1730 hrs	Interactive Session (Query)
12 Sep 15	Saturday		
13 Sep 15	Sunday		
14 Sep 15	Monday	1600-1700 hrs	Mobile Mapping
			Interactive Session (Query)
15 Sep 15	Tuesday	1600-1700 hrs	Indian Regional Navigation Satellite System (IRNSS)
		1700-1730 hrs	Interactive Session (Query)
16 Sep 15	Wednesday	1600-1700 hrs	GPS Aided and GEO Augmented Navigation (GAGAN)
		1700-1730 hrs	Interactive Session (Query)
17 Sep 15	Ganesh Chaturthi		
19 Sep 15	Saturday		
20 Sep 15	Sunday		
21 Sep 15	Monday	1600-1700 hrs	GNSS Radio Occultation
		1700-1730 hrs	Interactive Session (Query)
Module - 2 Complete			
22 Sep 15	Thursday	Exam Module-1 Morning Session	


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MODULE 3: GEOGRAPHICAL INFORMATION SYSTEM
MODULE COORDINATOR: Shri Prasun Kumar Gupta (prasun@iirs.gov.in)
Date: 24 Sept – 27 Oct, 2015



Date	Day	Time	Topic
24 Sept 15	Thursday	1600-1700 hrs	Introduction to GIS
		1700-1730 hrs	Interactive Session (Query)
25 Sept 15	Friday	1600-1700 hrs	Geographic Phenomena: Concepts and examples
		1700-1730 hrs	Interactive Session (Query)
28 Sept 15	Monday	1600-1700 hrs	Data inputting and Editing in GIS
		1700-1730 hrs	Interactive Session (Query)
29 Sept 15	Tuesday	1600-1700 hrs	Non-Spatial Data Models
		1700-1730 hrs	Interactive Session (Query)
30 Sept 15	Wednesday	1600-1700 hrs	Database concepts and Spatial Data Models Data formats and structures
		1700-1730 hrs	Interactive Session (Query)
21 Oct 15	Thursday	1600-1700 hrs	Demo of QGIS Software – Session 01 (Introduction to Open source (Free) GIS s/w)
			<ul style="list-style-type: none"> • Adding GIS Data • Attribute table & identify tool • Change symbology • Create map compositors
		1700-1730 hrs	Interactive Session (Query)
02 Oct 15			Mahatma Gandhi's B'day
05 Oct 15	Monday	1600-1700 hrs	Demo of QGIS Software – Session 02 (Plugins, Projection & Geo-referencing)
			<ul style="list-style-type: none"> • Manage plugins • CRS & EPSG • Geo-referencing & Tie-points • RMSE & Rectification
		1700-1730 hrs	Interactive Session (Query)
06 Oct 15	Tuesday	1600-1700 hrs	Demo of QGIS Software – Session 03 (Data Creation/Vector Generation)
			<ul style="list-style-type: none"> • Digitization • Setting digitizing environment • Adding attributes to layer • Editing digitized layer
		1700-1730 hrs	Interactive Session (Query)
07 Oct 15	Wednesday	1600-1700 hrs	Map Projection Concepts & Use in RS & GIS
		1700-1730 hrs	Interactive Session (Query)
08 Oct 15	Thursday	1600-1700 hrs	Spatial Analysis- Introductory Concepts and Overview
		1700-1730 hrs	Interactive Session (Query)
09 Oct 15	Friday	1600-1700 hrs	Spatial Analysis- Functionality and Tools
		1700-1730 hrs	Interactive Session (Query)
10 Oct 15			Saturday
11 Oct 15			Sunday
12 Oct 15	Monday	1600-1700 hrs	Demo of QGIS Software – Session 04 (Attribute & Spatial Queries)
			<ul style="list-style-type: none"> • Attribute Queries • Spatial Queries
			NEW: Linking spatial & non-spatial data
13 Oct 15	Tuesday	1600-1700 hrs	Spatial Data Management using RDBMS-Demo on PostGRE SQL+ Post GIS
		1700-1730 hrs	Interactive Session (Query)
14 Oct 15	Wednesday	1600-1700 hrs	Geo-Web Services Concept & Applications-Live Demo
		1700-1730 hrs	Interactive Session (Query)
15 Oct 15	Thursday	1600-1700 hrs	Catalogue Services: Geonetwork and mock demo
		1700-1730 hrs	Interactive Session (Query)
16 Oct 15	Friday	1600-1700 hrs	Map & 3D Visualization
		1700-1730 hrs	Interactive Session (Query)
17 Oct 15			Saturday
18 Oct 15			Sunday
19 Oct 15	Monday	1600-1700 hrs	Data Quality & Policies OGC, NSDI & GSDI initiatives
			Discussion on Internet resources
		1700-1730 hrs	Interactive Session (Query)
20 Oct 15	Tuesday	1600-1700 hrs	Network Analysis
		1700-1730 hrs	Interactive Session (Query)
21 Oct 15			Masha Asthami
22 Oct 15			Dussehra
23 Oct 15	Monday	1600-1700 hrs	Advances/Trends in GIS
		1700-1730 hrs	Interactive Session (Query)
27 Oct 15	Tuesday	1600-1700 hrs	ISRO Bhuvan Geo Portal Applications
		1700-1730 hrs	Interactive Session (Query)


T/O PRINCIPAL
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MODULE 4: RS & GIS APPLICATION
 MODULE COORDINATOR: Dr. S.K Srivastav (sksrivastav@ilrs.gov.in)
 Date: 29 Oct – 26 Nov, 2015



Date	Day	Time	Topic
29 Oct 15	Thursday	1600-1700 hrs	To be decided
		1700-1730 hrs	Interactive Session (Query)
30 Oct 15	Friday	1600-1700 hrs	Remote Sensing and GIS Applications in Soil Resource Assessment
		1700-1730 hrs	Interactive Session (Query)
31 Oct 15			Saturday
1 Nov 15			Sunday
2 Nov 15	Monday	1600-1700 hrs	Remote Sensing Applications in Agriculture- Crop Inventory & Yield Forecasting
		1700-1730 hrs	Interactive Session (Query)
3 Nov 15	Tuesday	1600-1700 hrs	RS & GIS Applications in Forestry and Ecology
		1700-1730 hrs	Interactive Session (Query)
4 Nov 15	Wednesday	1600-1700 hrs	Biodiversity Characterization at landscape level Using Satellite Remote Sensing & GIS
		1700-1730 hrs	Interactive Session (Query)
5 Nov 15	Thursday	1600-1700 hrs	Engineering Geology with emphasis on landslide studies
		1700-1730 hrs	Interactive Session (Query)
6 Nov 15	Friday	1600-1700 hrs	Geology and Geomorphology
		1700-1730 hrs	Interactive Session (Query)
07 Nov 15			Saturday
08 Nov 15			Sunday
09 Nov 15	Monday	1600-1700 hrs	Space-enabled Products & Services for Disaster Management : Indian Initiatives
		1700-1730 hrs	Interactive Session (Query)
11 Nov 15			Diwali
14 Nov 15			Saturday
15 Nov 15			Sunday
18 Nov 15	Monday	1600-1700 hrs	RS & GIS Applications to Water Resources Management
		1700-1730 hrs	Interactive Session (Query)
17 Nov 15	Tuesday	1600-1700 hrs	Application of RS & GIS in Hydrogeology
		1700-1730 hrs	Interactive Session (Query)
18 Nov 15	Wednesday	1600-1700 hrs	RS & GIS for Coastal Zone Management
		1700-1730 hrs	Interactive Session (Query)
19 Nov 15	Thursday	1600-1700 hrs	Remote Sensing Application to Atmospheric & Marine Environment
		1700-1730 hrs	Interactive Session (Query)
20 Nov 15	Friday	1600-1700 hrs	Atmospheric Trace Gases Studies
		1700-1730 hrs	Interactive Session (Query)
23 Nov 15	Monday	1600-1700 hrs	To be decided
		1700-1730 hrs	Interactive Session (Query)
24 Nov 15	Friday	1600-1700 hrs	Urban Spatial growth modeling
		1700-1730 hrs	Interactive Session (Query)
25 Nov 15	Monday	1600-1700 hrs	RS & GIS Application in Urban & Regional Planning
		1700-1730 hrs	Interactive Session (Query)
Module -4 Complete			
27 Nov 15			Exam - Module 3 (Morning Session)
30 Nov 15			Exam - Module 4 (Morning Session)


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

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh, Tal. Khatav, Dist.
Satara

DEPARTMENT OF GEOGRAPHY

LIST OF STUDENTS



SL No	Title (Mr./Ms.)	First Name	Last Name	email (Mandatory)	Mob No
1	Mr.	Mosim	Atar		
2	Ms.	Pooja	Bhosale	poojadbhosale1996@gmail.com	9850511970
3	Mr.	Sumit	Bhujbal	sumitbhujbal1995@gmail.com	7350415918
4	Mr.	Rohit	Chavan		
5	Mr.	Satpal	Deshmukh		
6	Mr.	Shrikant	Girigosavi	shrigosavi93@gmail.com	7387913009
7	Ms.	Renuka	Gosavi	renuka415510@gmail.com	9096584519
8	Mr.	Amar	Jadhav	amar9750@gmail.com	7719052056
9	Mr.	Rishikesh	Khairmode	rishikhairmode@gmail.com	9970767919
10	Mr.	Ganesh	Mane	gtmane123@gmail.com	8055314502
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12	Mr.	Sagar	Nalvade	nalvadesagar@gmail.com	7709542276
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14	Ms.	Pooja	Pawar	poojap6496@gmail.com	7744899363
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16	Mr.	Akash	Raut	akash26raut@gmail.com	9881433841
17	Ms.	Dhanashri	sakhare	sakhared321@gmail.com	9503461472
18	Mr.	Ajit	Sawant	ajits7442@gmail.com	9920656301
19	Mr.	Yogesh	Shinde	yshinde1996@gmail.com	9975628714
20	Mr.	Tejas	Waghmare	waghmare93@gmail.com	7743952291
21	Mr.	Vishnu	Waghmare	vwagh123@gmail.com	7038269738

Dr. Namdev V. Telore
Co-ordinator

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

1/1 PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

भारत सरकार/Government of India
अन्तरिक्ष विभाग/Department of Space
भारतीय अन्तरिक्ष अनुसंधान संगठन/ Indian Space Research Organisation
भारतीय सुदूर संवेदन संस्थान/Indian Institute of Remote Sensing
देहरादून/Dehradun

Ref. No. 15th Course/ 2015

Date: 01 April 2016

To,

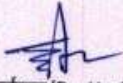
Dr. Namdev V. Telore
Assistant Professor
Department of Geography
Raja Shripatrao Bhagawanrao Mahavidyalaya, Aundh
Tal. Khatva, Dist. Satara, Pin. 415510
Mahashtra

Sub: Certificate of IIRS 15th Outreach Programme

I am herewith sending certificates of 15th IIRS Outreach Programme conducted during August 10 to November 27, 2015 for the participants who have successfully completed the course from your Institute/ University/ College/Department.

Please acknowledge the receipt of the same.

Thanking you


डॉ. हरीश कर्नाटक/Dr. Harish Karnatak
प्रमुख/ Head
जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग
GIT & DL Department

Enc: 1. List of successfully completed participants (Annexure attached)

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh, Tal. Khatav, Dist. Satara

Marks sheet Module No. 1
Basics of Remote Sensing

22.09.2015

SL No	Title	Registration No	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	Javed	Atar	56.50	[Signature]
2	Mr.	1436859336	Jagannath	Barakade	51.25	[Signature]
3	Ms.	1436859712	Pooja	Bhosale	49.00	[Signature]
4	Mr.	1436859292	Sumit	Bhujbal	44.83	[Signature]
5	Mr.	1436861518	Shrikant	Girigosavi	51.00	[Signature]
6	Ms.	1436859696	Renuka	Gosavi	50.50	[Signature]
7	Mr.	1436859338	Amar	Jadhav	58.50	[Signature]
8	Ms.	1436859279	Ashwini	Jagadale	50.58	[Signature]
9	Mr.	1436860320	Vijay	Jagdale	50.33	[Signature]
10	Mr.	1436859324	Rishikesh	Khairmode	52.00	[Signature]
11	Mr.	1436860282	Ganesh	Mane	52.50	[Signature]
12	Mr.	1436859329	Rahul	More	51.70	[Signature]
13	Mr.	1436860292	Babasab	Mulla	54.00	[Signature]
14	Mr.	1436859297	Sagar	Nalvade	53.50	[Signature]
15	Mr.	1436859685	Jagannath	Nanavare	59.33	[Signature]
16	Ms.	1436860272	vaishali	Nanavare	44.83	[Signature]
17	Ms.	1436860263	Pooja	Pawar	54.82	[Signature]
18	Mr.	1436860907	Suraj	Phadatare	47.50	[Signature]
19	Mr.	1436862074	Tushar	Potadar	52.00	[Signature]
20	Mr.	1436859130	Akash	Raut	46.75	[Signature]
21	Ms.	1436860208	Dhanashri	sakhare	48.25	[Signature]
22	Mr.	1436859314	Tushar	Sawant	48.83	[Signature]
23	Mr.	1436860199	Ajit	Sawant	52.50	[Signature]
24	Mr.	1436859763	Sanjay	Shinde	50.83	[Signature]
25	Mr.	1436859295	Yogesh	Shinde	24.00	[Signature]
26	Mr.	1436862383	Akshay	Todake	48.00	[Signature]
27	Mr.	1436859800	Tejas	Waghmare	44.50	[Signature]
28	Mr.	1436859791	Vishnu	Waghmare	43.85	[Signature]



COORDINATOR
Internal Quality Assurance Cell
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

[Signature]
Coordinator

Dr. N.V. Telore
R.S.B.M. Aundh, Satara

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

Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Tal. Khatav, Dist. Satara

Marks sheet Module No. 2
GNSS

SL No	Title	Registration No	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	Javed	Atar	32.00	[Signature]
2	Mr.	1436859336	Jagannath	Barakade	29.00	[Signature]
3	Ms.	1436859712	Pooja	Bhosale	28.00	[Signature]
4	Mr.	1436859292	Sumit	Bhujbal	21.00	[Signature]
5	Mr.	1436861518	Shrikant	Girigosavi	30.00	[Signature]
6	Ms.	1436859696	Renuka	Gosavi	24.00	[Signature]
7	Mr.	1436859338	Amar	Jadhav	32.00	[Signature]
8	Ms.	1436859279	Ashwini	Jagadale	30.00	[Signature]
9	Mr.	1436860320	Vijay	Jagdale	27.00	[Signature]
10	Mr.	1436859324	Rishikesh	Khairmode	30.00	[Signature]
11	Mr.	1436860282	Ganesh	Mane	24.00	[Signature]
12	Mr.	1436859329	Rahul	More	26.00	[Signature]
13	Mr.	1436860292	Babasab	Mulla	25.00	[Signature]
14	Mr.	1436859297	Sagar	Nalvade	30.00	[Signature]
15	Mr.	1436859685	Jagannath	Nanavare	26.00	[Signature]
16	Ms.	1436860272	vaishali	Nanavare	32.00	[Signature]
17	Ms.	1436860263	Pooja	Pawar	27.00	[Signature]
18	Mr.	1436860907	Suraj	Phadatare	24.00	[Signature]
19	Mr.	1436862074	Tushar	Potadar	30.00	[Signature]
20	Mr.	1436859130	Akash	Raut	30.00	[Signature]
21	Ms.	1436860208	Dhanashri	sakhare	27.00	[Signature]
22	Mr.	1436859314	Tushar	Sawant	28.00	[Signature]
23	Mr.	1436860199	Ajit	Sawant	21.42	[Signature]
24	Mr.	1436859763	Sanjay	Shinde	26.00	[Signature]
25	Mr.	1436859295	Yogesh	Shinde	26.00	[Signature]
26	Mr.	1436862383	Akshay	Todake	31.00	[Signature]
27	Mr.	1436859800	Tejas	Waghmare	26.00	[Signature]
28	Mr.	1436859791	Vishnu	Waghmare	26.00	[Signature]



Coordinator
Dr. N.V. Telore 22/9/15
R.S.B.M. Aundh, Satara
Dr. Namdev V. Telore
Co-ordinator
IIRS Outreach Programme, Dehradun
Centre: R.S.B. Mahavidyalaya, Aundh, Dist. Satara

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh, Tal. Khatav, Dist. Satara

Marks sheet Module No. 3
GIS

SL No	Title	Registration No	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	Javed	Atar	52.00	[Signature]
2	Mr.	1436859336	Jagannath	Barakade	50.00	[Signature]
3	Ms.	1436859712	Pooja	Bhosale	58.00	[Signature]
4	Mr.	1436859292	Sumit	Bhujbal	54.00	[Signature]
5	Mr.	1436861518	Shrikant	Girigosavi	49.00	[Signature]
6	Ms.	1436859696	Renuka	Gosavi	56.00	[Signature]
7	Mr.	1436859338	Amar	Jadhav	47.00	[Signature]
8	Ms.	1436859279	Ashwini	Jagadale	51.00	[Signature]
9	Mr.	1436860320	Vijay	Jagdale	49.00	[Signature]
10	Mr.	1436859324	Rishikesh	Khairmode	49.00	[Signature]
11	Mr.	1436860282	Ganesh	Mane	55.00	[Signature]
12	Mr.	1436859329	Rahul	More	44.00	[Signature]
13	Mr.	1436860292	Babasab	Mulla	42.00	[Signature]
14	Mr.	1436859297	Sagar	Nalvade	46.00	[Signature]
15	Mr.	1436859685	Jagannath	Nanavare	58.00	[Signature]
16	Ms.	1436860272	vaishali	Nanavare	50.00	[Signature]
17	Ms.	1436860263	Pooja	Pawar	54.00	[Signature]
18	Mr.	1436860907	Suraj	Phadatare	41.00	[Signature]
19	Mr.	1436862074	Tushar	Potadar	46.00	[Signature]
20	Mr.	1436859130	Akash	Raut	52.00	[Signature]
21	Ms.	1436860208	Dhanashri	sakhare	50.00	[Signature]
22	Mr.	1436859314	Tushar	Sawant	54.00	[Signature]
23	Mr.	1436860199	Ajit	Sawant	63	[Signature]
24	Mr.	1436859763	Sanjay	Shinde	54.00	[Signature]
25	Mr.	1436859295	Yogesh	Shinde	49.00	[Signature]
26	Mr.	1436862383	Akshay	Todake	53.00	[Signature]
27	Mr.	1436859800	Tejas	Waghmare	44.00	[Signature]
28	Mr.	1436859791	Vishnu	Waghmare	44.00	[Signature]



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

Coordinator
Dr. N.V. Telore
R.S.B.M. Aundh, Satara

01/11/2015 02/11/2015 03/11/2015

Marks sheet Module No. 4
RS & GIS Applications

SL No	Title	Registration No	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	Javed	Atar	23.00	[Signature]
2	Mr.	1436859336	Jagannath	Barakade	24.00	[Signature]
3	Ms.	1436859712	Pooja	Bhosale	25.00	[Signature]
4	Mr.	1436859292	Sumit	Bhujbal	24.00	[Signature]
5	Mr.	1436861518	Shrikant	Girigosavi	23.00	[Signature]
6	Ms.	1436859696	Renuka	Gosavi	26.00	[Signature]
7	Mr.	1436859338	Amar	Jadhav	25.00	[Signature]
8	Ms.	1436859279	Ashwini	Jagadale	23.00	[Signature]
9	Mr.	1436860320	Vijay	Jagdale	25.00	[Signature]
10	Mr.	1436859324	Rishikesh	Khairmode	23.00	[Signature]
11	Mr.	1436860282	Ganesh	Mane	24.00	[Signature]
12	Mr.	1436859329	Rahul	More	22.00	[Signature]
13	Mr.	1436860292	Babasab	Mulla	24.00	[Signature]
14	Mr.	1436859297	Sagar	Nalvade	20.00	[Signature]
15	Mr.	1436859685	Jagannath	Nanavare	27.00	[Signature]
16	Ms.	1436860272	vaishali	Nanavare	25.00	[Signature]
17	Ms.	1436860263	Pooja	Pawar	23.00	[Signature]
18	Mr.	1436860907	Suraj	Phadatare	25.00	[Signature]
19	Mr.	1436862074	Tushar	Potadar	26.00	[Signature]
20	Mr.	1436859130	Akash	Raut	24.00	[Signature]
21	Ms.	1436860208	Dhanashri	sakhare	27.00	[Signature]
22	Mr.	1436859314	Tushar	Sawant	25.00	[Signature]
23	Mr.	1436860199	Ajit	Sawant	27.00	[Signature]
24	Mr.	1436859763	Sanjay	Shinde	30.00	[Signature]
25	Mr.	1436859295	Yogesh	Shinde	22.00	[Signature]
26	Mr.	1436862383	Akshay	Todake	25.00	[Signature]
27	Mr.	1436859800	Tejas	Waghmare	26.00	[Signature]
28	Mr.	1436859791	Vishnu	Waghmare	25.00	[Signature]



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

S.No.	Name in English	Name in Hindi	University Name in Hindi	University name in English	EDUSAT No.
1	Mr. Raut Akash Jagannath	श्री अकाश जगन्नाथ	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112652
2	Ms. Jagdale Ashwini Baban	श्रीमती जगदाळे अश्विनी बचन	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112653
3	Mr. Bhujbal Sumit Vijay	श्री भुजबळ सुमित विजय	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112654
4	Mr. Nalvade Sagar Pramod	श्री नलवडे सागर प्रमोद	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112655
5	Mr. Sawant Tushar Abaso	श्री सावंत तुषार आबासो	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112656
6	Mr. Khairmode Rishikesh Hanmant	श्री खैरमोडे रशिकेश हनमंत	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112657
7	Mr. More Rahul Lakshman	श्री मोरे राहुल लक्ष्मण	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112658
8	Mr. Barakade Jagannath Dagadu	श्री बरकडे जगन्नाथ दगदु	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112659
9	Mr. Jadhav Amar Bapusahab	श्री जाधव अमर बापुसाहेब	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112660
10	Mr. Nanavare Jagannath Gulab	श्री नानवरे जगन्नाथ गुलाब	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112661
11	Ms. Gosavi Renuka Ramgiri	श्रीमती गोसावी रेणुका रामगीरी	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112662
12	Ms. Bhosale Pooja Dhanaji	श्रीमती भोसले पूजा धनाजी	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112663
13	Mr. Shinde Sanjay Maruti	श्री शिंदे संजय मारुती	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112664
14	Mr. Waghmare Vishnu Shashikant	श्री वाघमारे विष्णु शशिकान्त	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112665
15	Mr. Waghmare Tejas Ashok	श्री वाघमारे तेजस अशोक	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112666
16	Mr. Atar Javed Abbas	श्री अतार जावेद अब्बास	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112667
17	Mr. Sawant Ajit Arvind	श्री सावंत अजित अरविंद	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112668



भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING

भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVT. OF INDIA



नामांकन सं/ Enrollment No. : EDU152015112674

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राष्ट्रीय प्राकृतिक संसाधन प्रबंधन प्रणाली (एनएनआरएमएस) द्वारा प्रायोजित
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प्रमाणित किया जाता है कि श्री जगदाळे विजय रामचंद्र, राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र को यह प्रमाण पत्र "सुदूर संवेदन, भौगोलिक सूचना प्रणाली तथा वैश्विक नेविगेशन उपग्रह प्रणाली" पर आधारित पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है। उक्त पाठ्यक्रम इस संस्थान द्वारा 10 अगस्त से 27 नवम्बर, 2015 तक संचालित किया गया।

This is to certify that **Mr. Jagdale Vijay Ramchandra** from **Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra** has been awarded this certificate on having completed the basic course on "**Remote Sensing, Geographical Information System & Global Navigation Satellite System**" conducted by this institute from August 10 to November 27, 2015.

दिनांक Date: 01.02.2016
देहरादून Dehradun

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