15<sup>th</sup> 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



iii)

To,

Date: 29/11/2015

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

ii) Mr. Ashutosh Bhardwaj

3. Number of enrolled students: 27

4. Name of Coordinator: Dr. Telore Namdev Vasant

5. Name of Resource Persons: i) Ms. Minakshi Kumar

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.

Manl

Principal PRINCIPAL Raja Shripatrao Bhagwantrao Mahavidyalaya,Aundh(Satara)

**Centre** Goordinator (Dr. Namdev V. Teto Dr. Namdev V. Telore Telore) Co-ordinator

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



Government el indis Department el Epoce Indian Institute ol Remote Sensing 4. Kalidas Road, PB. Ho. 135, Dehradan - 248 001, Indis Tel. - +91-135- 2744583 Fax + +91-135- 2741987

> 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,

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भारतीय सुदूर संवेदन संख्यान

4, कालीदास मार्ग, पो. बाक्स स. 135,

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Rave : +91-135- 2741987

डॉ. ए. सेन्यिल कुपार

Dr. A. Senthil Kumar Director

मारत सरकार

अंतरिस विम्ताग

निदेशक

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, benefitting 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.in) 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

coustrooy@gmail. co a Yours Sincerely the Rumar (A. Senthil Humar)

मारतीय अंतरित अनुसंधान संगठन Indian Space Research Organisation

Dr. Namdev V. Telore Ce-erdinator HRS Outreach Programme, Dehraden Control S. B. Maharidyalaya, Aundh, Dist. Satura Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)



#### About the Course

About the Course The second second second second second second second means a second second second second second second means a second seco

#### Curriculum

- The course is divided into 4 modules: Remote Sensing and Digital Image Analysis Olobal Navigation Safelite System Geographical Information System R5 and GIS Applications

- The topics include

  Basic Principles of Remote Sensing, Earth Observation Sensers and Hutforms, Spectral Signature of different land caser features, Image interpretation Thermal & Microsover RemetriSensing Oigital image Processing Basic Concepts of Restification and Registration, Enhancement, Classification and accuracy assessment techniques Internations in the OFS and GMSS, receivers, processing methods, erfors-and-accuracy

- · GB, data taxes, translagy, smalled analysis and open secure
- Bit & Ots Approximations: Agriculture and Suit, Investry and Ecology Genecicine and Genhubarth, Monrie and Atmospheric Sciences Urban and Regional Studies and Water Resources.
- Course study materials like lecture path lecture video, lecture cotes, open sparse software, prantical data & handooxts of practical lecture etc., will be made available through URS trp site and lecture videoactical applications' wontable. Charteeling://www.jour.hem.ntv.iet/educat2004

### **Target Participants**

- Student of undergraduate course/Postgraduate course (any year).
- Technical/Scientific Staff of Central/State Government Department 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 contex. Uncer ensuing programmes under CSC-USC/CET/ Other instruction-caling participate (institutions on high speech National Knowledge Network (NRN) can also participate using A VEW software.

#### Course Fee

The Course is free of o

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### Course Registration

Online registration a open through URL: http://m.gov.in/Education/ https://the online registration is mandatory. No hard copy application

#### Sponsors & Technical Support

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

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A-VIEW America UN

### Programme Receptio

NRN/ NMERCT Institutions/ other in participate in IRS Outreach Program following setup: ne by an

### Option & A-VIEW Internet based streaming

- Hardware Requirements :
- High end Ci Laptop (W
- · Good quality web carriera
- Needphone with Microphone · Speakers
- Large Display Screen (Projector or TV)
- Software and Internet Requirements
- Desktop based: A-VIEW software (free to download from www.asiew.m.or (IRS:ftp.knk:ftp://ftp.im.gov.m)
- Web based: http://five.aview.in
   National Knowledge Network or any other high speed internet facility/ineferably-without freewall, bandwidth (2 mbps minimum)
- Network requirements Port IIO and RTMP (port 1935) protocol should be unblocked from users' computer

### Option-IE Satellite Based (SHI/ ROT users can receive if hub is operational at CIET-NCERT)

- 1.2 m Satellite Interactive Term ul(SIT) An
- Indoor unit (IDU) Le, set too box
- PC with software for LMS ICD Projector



h (Satara)

			Outreach Programme	on	
		Dasic	s of RS, GIS & GNSS Participants Details		
SLNo Re	gistartion Num First Name	Last Name	email (Mandatory)	4	
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23	1436860199 Ajit	Sawant	ajits7442@gmail.com	Geography	9920656301
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25	1436859295 Yogesh	Shinde	yshinde1996@gmail.com	Geography	9975628714
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28	1436859791 Vishnu	Waghmare	vkwagh123@gmail.com	Geography	7038269738
	Dr. Namdev V. Telore Ca-ardinater IIRS Outreach Programme, Bahr		- +	PRINCIPAL principal	



# 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	То	
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	
•	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

**C** 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

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			Date: 10 Aug - 03 Sep, 2015			
Date	Day	Time	Topic			
10 Aug 15	Monday	1600-1700 hrs	Introductory Lecture			
and the second		1600-1700 hrs	Basic Principles of Remote Sensing			
11 Aug 15 Tuesday		1700-1730 hrs	Interactive Session (Query)			
13 Aug 15		1600-1700 hrs	Earth Observation Sensors and Platforms			
	Thursday	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	and the second second	23.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	Saturday (Independence Day)			
16 Aug 15	a has had to be		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)			
	Tuesday	1600-1700 hrs	Thermal Remote Sensing			
18 Aug 15		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			
	REAL	1700-1730 hrs	Interactive Session (Query)			
22 Aug 15	North State		Saturday			
23 Aug 15	1.1.1		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			
	1.	1700-1730 hrs	Interactive Session (Query)			
26 Aug 15		1600-1700 hrs	Demonstration: Image Processing			
and the second second	Wednesday	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	194		Sunday			
31 Aug 15	Monday	1600-1700 hrs	Hyperspectral Remote Sensing			
Con 15		1700-1730 hrs	Interactive Session (Query)			
Sep 15	Tunndau	1600-1700 hrs	Overview of Open Source Tools - I			
Sep 15	Tuesday	1700-1730 hrs	Interactive Session (Query)			
. Jep 15	Wednesday	1600-1700 hrs 1700-1730 hrs	Overview of Open Source Tools - II			
Sep 15	Thursday	Offline - as per computer lab availability	Interactive Session (Query) Practical Assignment submission and evaluation.			

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)

MODULE 2: GLOBAL NAVIGATION SATELLITE SYSTEM MODULE COORDINATOR: Shri Ashutosh Bhardwaj (ashutosh@iirs.gov.i 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
Sector Sector	and the second	1700-1730 hrs	Interactive Session (Query)
9 Sep 15	Wednesday	1600-1700 hrs	Satellites based Augmentation systems
Control of the	Contraction (Section 1984)	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		de la	Sunday
14 Sep 15	Monday	1600-1700 hrs	Mobile Mapping
THE STREET			Interactive Session (Query)
15 Sep 15	Tuesday	1600-1700 hrs	Indian Regional Navigation Satellite System (IRNSS)
1121		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	100000000000		Sunday
21 Sep 15	Monday	1600-1700 hrs	GNSS Radio Occultation
		1700-1730 hrs	Interactive Session (Query)
	Alter and the start	Mo	dule -2 Complete
22 Sep 15	Thursday	Exam Module-1 M	



Day Thursday Friday - Monday	Time 1600-1700 hrs 1700-1730 hrs 1600-1700 hrs 1700-1730 hrs	Topic 5 Introduction to GIS Interactive Session (Query)
Friday -	1700-1730 hrs 1600-1700 hrs	Introduction to GIS Interactive Session (Query)
- Carlorador	1600-1700 hrs	Conversion Changes Co
Monday	1700-1730 hrs	Geographic Phenomena, Concepts and examples
monuay		Interactive Session (Query)
State State	1600-1700 hrs 1700-1730 hrs	Data Inputting and Editing in GIS Interactive Session (Query)
Tuesday	1600-1700 hrs	Non-Spatial Data Models
1010-10-0	1700-1730 hrs	Interactive Session (Query)
Wednesday	1600-1700 hrs	Database concepts and Spatial Data Models Data formats and structures
	1700-1730 hrs	Interactive Session (Query)
Thursday	1600-1700 hrs	Demo of QGIS Software – Session 01
		(Introduction to Open source (& Free) GIS s/w): Adding GIS Data
	The Party of the P	Attribute table & identity tool
		Change symbology
Rest inter	1700-1730 hrs	Create map composers  Interactive Session (Query)
		Mahatma Gandhi's B'day
Monday	1600-1700 hrs	Demo of QGIS Software - Session 02
Pain St		(Plugins, Projection & Geo-referencing) Manage plugins
		Manage plugins     CRS & EPSG
	Pater Barter 3	Geo-referencing & Tie-points
	1700-1730 hrs	RMSE & Rectification
Tuesday	1600-1700 hrs	Interactive Session (Query) Demo of QGIS Software – Session 03:
AS IN TRAF		(Data Creation/Vector Generation)
		Digitization
		Setting digitizing environment     Adding attributes to layer
		Editing digitized layer
Vietnesda	1700-1730 hrs	Interactive Session (Query)
evennesday		Map Projection Concepts & Use in R5 & GIS
Thursday	1600-1700 hrs	Interactive Session (Query) Spatial Analysis- Introductory Concepts and Overview
English	1700-1730 hrs	Interactive Session (Query)
- inay		Spatial Analysis- Functionality and Tools Interactive Session (Query)
		Saturday
Monday	1600 1700 hrs	Sunday
and and y	1000-1700 ms	Demo of QGIS Software – Session D4 (Attribute & Spatial Queries)
FUR TH		Attribute Queries
		Spatial Queries
	1600-1700 hrs	NEW: Linking spatial & non-spatial data Spatial Data Management using RDBMS-Demo on PostGRE
Tuesday		SQL+ Post GIS
	1700-1730 hrs	Interactive Session (Query)
Wednesday	1600-1700 hrs 1700-1730 hrs	Geo-Web Services Concept & Applications-Live Demo Interactive Session (Query)
	1600-1700 hrs	Catalogue Services- Geonetwork and mock demo
Thursday	1700-1730 hrs	Interactive Session (Query)
Friday	1600-1700 hrs	Map & 3D Visualization
	1700-1730 hrs	Interactive Session (Query)
		Saturday Sunday
Monday	1600-1700 hrs	Data Quality & Policies OGC, NSDI & GSDI initiatives
	1700-1730 hrs	Discussion on Internet resources
Tuesday	1600-1700 hrs	Network Analysis
	1700-1730 hrs	Interactive Session (Query)
	Contraction of the	Masha Asthami Dussehra
Monday	1600-1700 hrs	Advances/Trends in GIS
Tuesday	1700-1730 hrs. 1600-1700 hrs.	Interactive Session (Query) ISRO Bhuvan Geo Portal Applications
	1700-1730 hrs.	Interactive Session (Query)
	Thursday Monday Tuesday Tuesday Thursday Friday Monday Thursday Friday Wednesday Thursday Friday	1700-1730 hrs           Thursday         1800-1700 hrs           1700-1730 hrs         1700-1730 hrs           Monday         1600-1700 hrs           Tuesday         1600-1700 hrs           Viednesday         1600-1700 hrs           Tuesday         1600-1700 hrs           Wednesday         1600-1700 hrs           Tuesday         1600-1700 hrs           Wednesday         1600-1700 hrs           Tuesday         1600-1700 hrs           Truesday         1600-1700 hrs           Wednesday         1600-1700 hrs           Tuesday         1600-1700 hrs           Tousday         1700-1730 hrs           Horday         1600-1700 hrs           Thursday         1600-1700 hrs           Tousday         1700-1730 hrs           Monday         1600-1700 hrs           Tousday         1600-1700 hrs           Tousday         1600-1700 hrs           Tousday<

MODULE 4: RS & GIS APPLICATION
MODULE COORDINATOR: Dr. S.K Srivastav (sksrivastav@iirs.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)				
1	Friday	1600-1700 hrs	Remote Sensing and GIS Applications in Soil Resource				
30 Oct 15			Assessment				
	State and	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 Inventor & Yield Forecasting				
22215310		1700-1730 hrs	Interactive Session (Query)				
3 Nov 15	Tuesday	1600-1700 hrs	RS & GIS Applications in Forestry and Ecology				
Constant in the second		1700-1730 hrs	Interactive Session (Query)				
4 Nov 15	Wednesda	1600-1700 hrs	Biodiversity Characterization at landscape level Using				
	V		Satellite Remote Sensing & GIS				
	a share a	1700-1730 hrs	Interactive Session (Query)				
Nov 15	Thursday	1600-1700 hrs	Engineering Geology with emphasis on landslide studies				
Nov 15	Friday	1700-1730 hrs	Interactive Session (Query)				
1404 13	Flight	1600-1700 hrs	Geology and Geomorphology				
07 Nov 15	1 1 1 2 2 2 4	1700-1730 hrs	Interactive Session (Query)				
08 Nov 15		A DAMA S P	Saturday				
19 Nov 15	-		Sunday				
13 MOV 15	Monday	1600-1700 hrs	Space-anabled Products & Services for Disaster				
	1 BOLSE	1	Management Indian Initiatives				
1 May 45		1700-1730 hrs	Interactive Session (Query)				
1 Nov 15	1010.0011	1	Diwali				
4 Nov 15	A STATE OF A STATE	22_08_03555 h	Saturday				
5Nov 15			Sunday				
6 Nov 15	Monday	1600-1700 hrs	RS & GIS Applications to Water Resources Management				
	The and	1700-1730 hrs	Interactive Session (Query)				
7 Nov 15	Tuesday	1600-1700 hrs	Application of RS & GIS in Hydrogeology				
-	and the second second	1700-1730 hrs	Interactive Session (Query)				
8 Nov 15	Wednesda	1600-1700 hrs	RS & GIS for Coastal Zone Management				
	Y	1700-1730 hrs	Interactive Session (Query)				
9 Nov 15	Thursday	1600-1700 hrs	Remote Sensing Application to Atmospheric & Marine				
	ALC: NOT		Environment				
		1700-1730 hrs	Interactive Session (Query)				
0 Nov 16	Enday	1600-1700 hrs	Atmospheric Trace Gases Studies				
	hand the second	1700-1730 hrs	Interactive Session (Query)				
3 Nov 15	Monday	1600-1700 hrs	To be decided				
	The second second	1700-1730 hrs	Interactive Session (Query				
4 Nov 15	Friday	1600-1700 hrs	Urban Spatial growth modeling				
		1700-1730 hrs	Interactive Session (Query)				
5 Nov 15	Monday	1600-1700 hrs	RS & GIS Application in Urban & Regional Planning				
		1700-1730 hrs	Interactive Session (Query				
	With Providence	Contraction of the state of the	dule -4 Complete				
7 Nov 15		mor	Exam - Module 3 (Morning Session)				

TIC PRINCIPAL Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh (Satara)

# DEPARTMENT OF GEOGRAPHY

# LIST OF STUDENTS

SL	Title	First	
No	(Mr./Ms.)	Name	
1	Mr.	Mosim	
2	Ms.	Pooja	
3	Mr.	Sumit	
4	Mr.	Rohit	
5	Mr.	Satpal	
6	Mr.	Shrikant	
7	Ms.	Renuka	
8	Mr.	Amar	
9	Mr.	Rishikesh	1
10	Mr.	Ganesh	1
11	Mr.	Babasab	1
12	Mr.	Sagar	1
13	Ms.	vaishali	1
14	Ms.	Pooja	1
15	Mr.	Suraj	I
16	Mr.	Akash	F
17	Ms.	Dhanashri	s
18	Mr.	Ajit	5
19	Mr.	Yogesh	5
20	Mr.	Tejas	1
21	Mr.	Vishnu	١

23

Last Name	email (Ma
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Bhosale	poojadbhos
Bhujbal	sumitbhujb
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Khairmode	rishikhairm
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vkwagh123@gmail.com	7038269738

Dr. Namdev V. Telore

Co-erdinater HRS Butreach Programme, Dehradu Centruck.S.R. Mahavidy alaya, Aundh, Dist. Satara

challoare T/CIPRINCIPAL 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 देहारादून/Dehradun

Ref. No. 15th Course/ 2015

Date: 01 April 2016

### To,

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

### Sub: Certificate of IIRS 15th Outreach Programme

I am herewith sending certificates of 15<sup>th</sup> 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 प्रोद्योगिकी एवं दूरस्थ अधिगम विभाग GIT & DL Department

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

### Marks sheet Module No. 1

**Basics of Remote Sensing** 

22.09.2015

SL No	Title	<b>Registartion</b> N	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	Javed	Atar	SHIT	and the second data was not second as a second s
2	Mr.	1436859336	Jagannath	Barakade	51.25	12.12
3	Ms.	1436859712	Pooja	Bhosale	40.00	aligate
4	Mr.	1436859292	Sumit	Bhujbal	44.82	Ashypal
5	Mr.	1436861518	Shrikant	Girigosavi	51.00	1scaus_
6	Ms.	1436859696	Renuka	Gosavi	50.00	Rip
7	Mr.	1436859338	Amar	Jadhav	58.00	A.B.July
8	Ms.	1436859279	Ashwini	Jagadale	50.50	
9	Mr.	1436860320	Vijay	Jagdale	50.22	the second second
10	Mr.	1436859324	Rishikesh	Khairmode	52.0	र्षसमार
11	Mr.	1436860282	Ganesh	Mane	52.00	the second se
12	Mr.	1436859329	Rahul	More	51.70	R'L'more
13	Mr.	1436860292	Babasab	Mulla	54.00	Sknella
14	Mr.	1436859297	Sagar	Nalvade	52.50	SPradwood
15	Mr.	1436859685		Nanavare	52:32	aust
16	Ms.	1436860272		Nanavare	44.02	V.C.Nanava
17	Ms.	1436860263	Pooja	Pawar	54.82	P.S. Pawar
18	Mr.	1436860907		Phadatare	117.00	Qural
19	Mr.	1436862074		Potadar	52.00	Retudat
20	Mr.	1436859130	Akash	Raut	41.75	1 Parts
21	Ms.	-1436860208	Dhanashri	sakhare	19.55	17/15
22	Mr.	1436859314	Tushar	Sawant	48.83	gaircing II
23	Mr.	1436860199	Aiit	Sawant	52.17	(a) assure of
24	Mr.	1436859763		Shinde	50.83	
25	Mr.	1436859295		Shinde	24:00	26hinde.
26	Mr.	1436862383	and the second se	Todake	48.00	Aake
27	Mr.	1436859800		Waghmare	44.00	Juashmore
28	Mr.	1436859791		Waghmare	43.85	+ Car 2 .

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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

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

# Marks sheet Module No. 2 GNSS

SL No	Title	<b>Registartion</b> N	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	Javed	Atar	32.00	
1	2 Mr.	1436859336	Jagannath	Barakade	29.00	Buel3.
3	Ms.	1436859712	Pooja	Bhosale	28.00	Black
4	Mr.	1436859292	Sumit	Bhuibal	21.00	12Bhurbo
5	Mr.	1436861518	Shrikant	Girigosavi	30.00	(Beun
6	Ms.	1436859696	Renuka	Gosavi	24.00	DU
7	Mr.	1436859338	Amar	Jadhav	32.00	B.B. Such
8	Ms.	1436859279	Ashwini	Jagadale	30.00	
9	Mr.	1436860320	Vijay	Jagdale		Blesdic
10	Mr.	1436859324	Rishikesh	Khairmode	30.00	AKAKHIS.
11	Mr.	1436860282	Ganesh	Mane	24.00	
12	Mr.	1436859329	Rahul	More	26.00	R.L. more
13	Mr.	1436860292	Babasab	Mulla	2500	BKm. 16
14	Mr.	1436859297	Sagar	Nalvade	30.00	SPNaccal
15	Mr.	1436859685		Nanavare	26.00	anoa
16	Ms.	1436860272		Nanavare	32.00	V.G.Namaya
17	Ms.	1436860263	Pooja	Pawar	27.00	P.S. Pawar
18	Mr.	1436860907	Suraj	Phadatare	24:00	Sural
19	Mr.	1436862074	Tushar	Potadar	30.00	Roladay
20	Mr.	1436859130	Akash	Raut	30.00	Chart
21	Ms.	1436860208	Dhanashri	sakhare	27.00	The
22	Mr.	1436859314	Tushar	Sawant	28.00	Totician
23	Mr.	1436860199	Ajit	Sawant	21.42	6 bornet
24	Mr.	1436859763		Shinde	26.00	Ada
25	Mr.	1436859295	Yogesh	Shinde	26.00	Whinde.
26	Mr.	1436862383	Akshay	Todake	31.00	Aake
27	Mr.	1436859800	Tejas	Waghmare	26.00	Buyhoner
28	Mr.	1436859791	Vishnu	Waghmare	26.00	D.



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

# Marks sheet Module No. 3 GIS

SL No	Title	Registartion N	First Name	Last Name	Marks	Signature
1	Mr.	1436859825		Atar	52:00	- M
2	Mr.	1436859336	Jagannath	Barakade	50.00	Juds
3	Ms.	1436859712		Bhosale	58.00	Blogge
4	Mr.	1436859292	Sumit	Bhujbal	\$41.00	Sphulbal
5	Mr.	1436861518	Shrikant	Girigosavi	49.00	Cocart
6	Ms.	1436859696	Renuka	Gosavi	56.00	RY
7	Mr.	1436859338	Amar	Jadhav	47.00	B.B. Jur
8	Ms.	1436859279	Ashwini	Jagadale	5.00	adist.
9	Mr.	1436860320	Vijay	Jagdale	41.00	andr
10	Mr.	1436859324		Khairmode	4400	cauis
11	Mr.	1436860282	Ganesh	Mane	5000	GTIMONE
12	Mr.	1436859329		More		Rilimond
13	Mr.	1436860292	Babasab	Mulla		BKuller
14	Mr.	1436859297	Sagar	Nalvade 46	-DO 58-00	SPNalint
15	Mr.	1436859685	Jagannath	Nanavare	58.00	ano-
16	Ms.	1436860272		Nanavare		V.C. Namaware
17	Ms.	1436860263	Pooia	Pawar	Elino.	
18	Mr.	1436860907		Phadatare	3900	P.S.Pawar
19	Mr.	1436862074		Potadar	41.00	Reladar
20	Mr.	1436859130		Raut	5200	
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22	Mr.	1436859314	Tushar	Sawant	54.00	(aginga a
23	Mr.	1436860199	Ajit	Sawant	62	anne !
24	Mr.	1436859763	Sanjay	Shinde	SUM	
25	Mr.	1436859295		Shinde	40.00	restincte.
26	Mr.	1436862383		Todake	52.00	Auke
27	Mr.	1436859800		Waghmare	44000	Buuhman
28	Mr.	1436859791	and the second se	Waghmare	44.00	and .

Ph.:02161 262324 ILRS ( Dr. Namdev V. Telore Co-ordinator IIRS Outreach Programme, Oshradun Centre:R.S.B.Mahavidyaloya, Aundh, Disc. Satara

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# Marks sheet Module No. 4 RS & GIS Applications

SL No	Title	Registartion N	First Name	Last Name	Marks	Signature
1	Mr.	1436859825	and the second se	Atar	23.00	Th
2	Mr.	1436859336	Jagannath	Barakade	24.00	Bergin
3	Ms.	1436859712	Pooja	Bhosale	25:00	1shisale
4	Mr.	1436859292	Sumit	Bhujbal	24.00	abhyber
5	Mr.	1436861518	Shrikant	Girigosavi	22.00	Cart
6	Ms.	1436859696	Renuka	Gosavi	26.70	Rei
7	Mr.	1436859338	Amar	Jadhav	2,500	A.B.Jur
8	Ms.	1436859279	Ashwini	Jagadale	23.00	ogny.
9	Mr.	1436860320	Vijay	Jagdale	25.00	Blasde
10	Mr.	1436859324	Rishikesh	Khairmode	22.00	669(44)5
11	Mr.	1436860282	Ganesh	Mane	2400	G.T. mane
12	Mr.	1436859329	Rahul	More	22:00	Rilimore
13	Mr.	1436860292	Babasab	Mulla	24:00	BKnellet
14	Mr.	1436859297	Sagar	Nalvade	20.00	SPNalua
15	Mr.	1436859685	Jagannath	Nanavare	27.00	hurs
16	Ms.	1436860272	vaishali	Nanavare	25.00	V
17	Ms.	1436860263	Pooja	Pawar	23.00	P.S. Pawar
18	Mr.	1436860907	Suraj	Phadatare	25.00	Gura
19	Mr.	1436862074	Tushar	Potadar	26.00	Patriday
20	Mr.	1436859130	Akash	Raut	24.00	( Change
21	Ms.	1436860208	Dhanashri	sakhare	27.00	ales.
22	Mr	1436859314	Tushar	Sawant	25.00	gengian.
23	Mr.	1436860199	Ajit	Sawant	27.00	Abstrat
24	Mr.	1436859763	Sanjay	Shinde	30.00	STE.
25	Mr.	1436859295	Yogesh	Shinde	22.00	whinde.
26	Mr.	1436862383	Akshay	Todake	25.00	Aake
27	Mr.	1436859800	Tejas	Waghmare	26.00	Sughmer
28	Mr.	1436859791	Vishnu	Waghmare	2500	the.



Coordinator

Dr. N.V. Telore R.S.B.M. Aundh, Satara Dr. Namdev V. Telore Co-ordinator IIRS Outreach Programme, Dohradun

Centre:R.S.B.Mahavidyalaya, Aundh, Dist.Satara

15th IIRS Outreach Programme

S:No.	Name in English	A the in Hint	University Name in Hindi	Uni. /sity name in English	EDUSAT No.
1	Mr. Raut Akash Jagannath	श्रीकृत आकाश जगन्नाध	राजा श्रीपतराव भगवंतराव महाविद्यालय, औष, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112652
2	Ms. Jagadale Ashwini Baban	श्रीमती जगदाळे अश्विनी बबन	राजा औपतराव भगवंतराव महाविद्यालय, औंघ, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112653
3	Mr. Bhujbal Sumit Vijay	श्री मुजबळ सुमित विजय	राजा श्रीपलराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112654
	Mr. Nalvade Sagar Pramod	श्री नलवडे सागर प्रमोद	राजा श्रीपलराव भगवंतराव महाविद्यालय, औंघ, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112
5	Mr. Sawant Tushar Abaso	श्री सावंत तुषार आबासो	राजा श्रीपलशव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112656
6	Mr. Khairmode Rishikesh Hanmant	श्री खैरमोठे ऋषिकेश हणमंत	राजा औपतराव भगवंतराव महाविद्यालय, औंध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112657
7	Mr. More Rahul Lakshman	श्री गौरे राहुल लक्ष्मण	राजा श्रीपतराव भगवंतराव महाविद्यालय, औंघ, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112658
8	Mr. Barakade Jagannath Dagadu	श्री. बरकडे जगन्नाच दगढू	राजा श्रीपलराव भगवंतराव महाविद्यालय, औंघ, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112659
, ÿ	Mr. Jadhav Amar Bapusaheb	श्री जाघव अमर बापूसाहेब	राजा श्रीपत्तराव भगवंतराव महाविद्यालय, औंघ, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112660
10	Mr. Nanavare Jagannath Gulab	श्री ननवरे जगन्नाथ गुलाब	राजा श्रीपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112661
11	Ms. Gosavi Renuka Ramgiri	श्रीमती गोसायी रेणूका रामगीरी	राजा श्रीपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112662
12	Ms. Bhosale Pooja Dhanaji	श्रीमती भोसले पूजा चनाजी	राजा श्रीपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112663
13	Mr. Shinde Sanjay Maruti	भी शिंदे संजय मारुली	राजा श्रीपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112664
14	Mr. Waghmare Vishnu Shashikant	श्री वाधमारे विष्णू शशिकांत	राजा औपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112665
15	Mr. Waghmare Tejas Ashok	श्री वाघगारे तेजस अशोक	राजा औपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112666
15 3	Mr. Atar Javed Abbas	श्री आतार जायेद अब्बास	राजा श्रीपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112667
17	Mr. Sawant Ajit Arvind	श्री सावंत अजित अरविंद	राजा श्रीपतराव भगवंतराव महाविद्यालय, औध, महाराष्ट्र	Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Maharashtra	EDU152015112668

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PRINCIPAL Raja Sh

विनौंक/ Date: 01.02.2016 देहरादून Dehradun Coordinal

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रुस. क. जीवास्तन प्रमुख, सुदूर संवेदन एवं भू-सूचना समूह समूह n Head B Sensing & G

आ. संखिल कुमार देशक, आई आई आए.एस

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