

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh, Satara

60th IIRS Outreach Programme on "Application of Geoinformatics in Ecological Studies"

Sponsored by NNRMS and organized by IIRS/ ISRO, Dept. of Space, Govt. of India,
Dehradun **13/07/2020 to 24/07/2020**

RAJA SHRIPATRAO BHAGAWANTRAO MAHAVIDYALAYA, AUNDH, SATARA

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



Date: 30/11/2019

To,
The Principal,
R.S.B. Mahavidyalaya, Aundh
Tal. Khatav, Dist. Satara

I am submitting summary report of 60th IIRS ISRO Outreach Programme. Please accept it.

1. **Name of Programme:** Application of Geoinformatics in Ecological Studies
2. **Duration:** 13/07/2020 to 24/07/2020 **Total Days:** 12
3. **Number of enrolled students:** 02
4. **Name of Coordinator:** Dr. Telore Namdev Vasant
5. **Name of Resource Persons:**
 - i) Dr. Hitesh Padalia
 - ii) Dr. Subrata Nandy iii) Dr. Poonam S. Tiwari
6. **Objectives of the Programme:**
 - i. To know concepts of Geoinformatics.
 - ii. To aware basics of Geoinformatics in ecological studies.
7. **Outcome of the Programme:**
 - i. Participants become aware of Geoinformatics technology.
 - ii. Participants become aware in ecological studies.

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

H/O PRINCIPAL
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)

IIRS Outreach Programme

The IIRS outreach programme, which was started in 2007 with 12 universities/ institutions has now grown substantially to 1100. The beneficiaries of the programme may include:

- Central/State/Private Universities & Academic Institutions
- Central & State Government Organisations/ Departments
- Forest Resource Professionals
- State Forest Departments/Forest Training Academies
- Research Institutes
- Geospatial Industries
- NGOs

Feedback Mechanism

IIRS has conducted workshops and sessions during IIRS Academia Meet to take feedback from participating institutions to improve the quality of future courses.



IIRS Outreach programme feedback session during IIRS Academia Meet (IAM)-2020

Awards of Appreciation

IIRS has received national awards for excellence in training for outreach and e-learning programme during 1st National Symposium on Excellence in Training conducted during April 11-12, 2015 in New Delhi by Department of Personnel & Training (DoPT), Govt. of India in collaboration with United Nations Development Programme (UNDP).



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

About IIRS

Indian Institute of Remote Sensing (IIRS) under Indian Space Research Organisation (ISRO), Department of Space, Govt. of India is a premier Training and Educational Institute set up 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 endeavour 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 groups, ranging from fresh graduates to policy makers including academia.

IIRS also conducts e-learning programme on Remote Sensing and Geoinformation Science (<https://elearning.iirs.gov.in>).

Contact Details

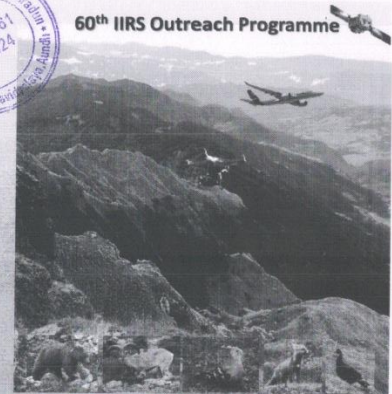
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60th IIRS Outreach Programme



Application of Geoinformatics in Ecological Studies

July 13-24, 2020



Organised by

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

www.iirs.gov.in

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Mahavidyalaya, Aundh (Satara)

About the Course

Recent advancements in the field of geoinformatics have a substantial impact on ecological studies, providing spatial data and associated information to enable a better understanding of the ecological systems. Remote sensing has been widely used as a source of environmental information for ecological research. The temporal dimension of remote sensing is also a valuable attribute for studies of ecological systems at landscape to global scales, providing a means to study the impacts of environmental change. Researchers have become increasingly aware of the potentials of GIS and of data availability and tools for ecological modelling applications. There has been considerable development in WebGIS with regard to visualization and geospatial analysis that are useful to the ecologist. The recent surge in Free and Open Source Software (FOSS) of GIS has added another dimension by enabling services beneficial to the ecological and environmental sciences. With the development of new active and passive sensors with improved spatial, spectral, radiometric, and temporal resolutions, Earth observation data along with better data integration approaches can contribute immensely to ecological research.

Course Contents

- An overview of application of geoinformatics in ecological studies
- Ecological niche-based species distribution modelling
- Ecological studies using LIDAR
- Biodiversity assessment with geoinformatics
- Geostatistical analysis in ecological studies
- Biodiversity informatics and citizen science
- Satellite telemetry for wildlife studies
- Ecological studies using cloud computing (Demo)

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

Target Participants

The course is designed for professionals from Central/State Govt./Private Organizations/NGO/students and researchers engaged in ecological studies. The course participants have to be duly sponsored by their university/institution and application should be forwarded through coordinators from respective organisations/centres. Users attending programmes under CEC-UGC/CIET/other networks can also participate. Institutions on high speed National Knowledge Network (NKN) can also participate.

Course Study Material

Course study materials like lecture slides, video recorded lectures, open source software & handouts of demonstrations, etc. will be made available through e-class. Video lectures will also be uploaded on e-class (<https://eclass.iirs.gov.in/login>).

Course Fee

There is no course fee for attending this programme.

Course Registration

- Course updates and other details will be available on URL- <https://www.iirs.gov.in/EDUSAT-News>.
- To participate in this programme the interested organizations/ universities/ departments/ Institutes has to identify a coordinator at their end. The identified coordinator will register online his/her Institute as nodal center in IIRS website.
- All the participants have to register online through registration page by selecting his/her organization as nodal center.

Raja Shripatrao Bhogwantrao
Mahavidyalaya, Aundh (Satara)

Course Funding & 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.

Programme Reception

Programme can be received through e-class platform of IIRS-ISRO using internet connectivity. No specific hardware/software required. However, it is recommended good internet connectivity at user end. To run the programme in class room, following hardware will be required:

- Desktop computer with web camera microphone and output speakers or laptop with microphone camera and output speaker.
- Large display screen/projector/TV.

Important links

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

To participate in this programme the interested organisations/ universities/ departments/ Institutes have to identify the Coordinator at their end. The identified coordinator will register online his/her Institute as nodal centre in IIRS website (<https://elearning.iirs.gov.in/edusatregistration/coordinator>). All the participants have to register online through registration page by selecting his/her organisation as nodal centre. <https://elearning.iirs.gov.in/edusatregistration/student>

Award of Certificate

Working Professionals and Students: Based on 70% attendance and 40% in the online examination.



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Dehradun

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on
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July 13-24, 2020



Lecture Schedule

Date & Time	Topic	Faculty/Resource person
13.07.2020 1600-1730 hrs	An overview of application of geoinformatics in ecological studies	Dr. Hitendra Padalia
14.07.2020 1600-1730 hrs	Ecological niche-based species distribution modelling	Dr. Hitendra Padalia
15.07.2020 1600-1730 hrs	Ecological studies using LiDAR	Dr. Subrata Nandy
16.07.2020 1600-1730 hrs	Biodiversity assessment with geoinformatics	Dr. Ishwari Datt Rai
17.07.2020 1600-1730 hrs	Geostatistical analysis in ecological studies	Dr. Taibanganba Watham
20.07.2020 1600-1730 hrs	Biodiversity informatics and citizen science	Dr. Sameer Saran
21.07.2020 1600-1730 hrs	Satellite telemetry for wildlife studies	Dr. Gautam Talukdar
23.07.2020 1600-1730 hrs	Ecological studies using cloud computing (Demo)	Dr. Subrata Nandy & Ms. Ritika Srinet
24.07.2020 1600-1700 hrs	Panel discussion	

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Co-ordinator
IIRS Outreach Programme, Dehradun
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I/C/PRINCIPAL
Raja Shripatrao Bhagwantrao
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Indian Space Research Organisation
Department of Space, Govt. of India

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60-IIRS Outreach Programme on Application of Geoinformatics in Ecological Studies

View Student attendance attendance status Study Material

Attendance Record for Course on Application of Geoinformatics in Ecological Studies

Registration Number	Name	Total Sessions	No. of sessions attended	% of Attendance	Eligibility for Examination/Certificate
2020600182879	MR. MAHESH DINKAR BILASKAR	9	7	77.78	Yes
2020600182584	DR. SANDHYA PATRE	9	9	100.00	Yes

10:35 PM 08/08/2020

N.V. Telore
Dr. Namdev V. Telore
Co-ordinator
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भारतीय सुदूर संवेदन संस्थान/ INDIAN INSTITUTE OF REMOTE SENSING
भारतीय अंतरिक्ष अनुसंधान संगठन/ INDIAN SPACE RESEARCH ORGANISATION
अंतरिक्ष विभाग, भारत सरकार/ DEPARTMENT OF SPACE, GOVERNMENT OF INDIA



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

COR603232020

संस्थान की सहभागिता का प्रमाण पत्र
CERTIFICATE OF PARTICIPATION OF INSTITUTE



यह प्रमाणित किया जाता है कि राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, सातारा, महाराष्ट्र ने भारतीय सुदूर संवेदन संस्थान, इसरो देहरादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम " पारिस्थितिकी अध्ययन में भू-सूचना विज्ञान के अनुप्रयोग " में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 13 जुलाई, 2020 से 24 जुलाई, 2020 तक किया गया।

This is to certify that **Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Satara, Maharashtra**, has participated in online training programme conducted by Indian Institute of Remote Sensing, ISRO Dehradun on "**Application of Geoinformatics in Ecological Studies**". This online programme was conducted during July 13, 2020 to July 24, 2020.

दिनांक/ Date: 01-10-2020

देहरादून/ Dehradun

Dr. Namdev V. Telore

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

प्रमुख,

जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग

Head, Geoweb Services, IT & Distance Learning Department, IIRS

समूह प्रमुख,

भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह

Group Head, Geospatial Technologies & Outreach Programme Group, IIRS

Raja Shripatrao Bhagawantrao
Principal
R.S.B. Mahavidyalaya, Aundh, Satara



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



ऑनलाइन दूरस्थ अधिगम कार्यक्रम
ONLINE DISTANCE LEARNING PROGRAMME

COR603232020

समन्वय का प्रमाणपत्र
CERTIFICATE OF COORDINATION

यह प्रमाणित किया जाता है कि राजा श्रीपतराव भगवंतराव महाविद्यालय, औंध, सातारा, महाराष्ट्र कार्यरत डॉ. नामदेव वसंत तेलोरे, ने " पारिस्थितिकी अध्ययन में भू-सूचना विज्ञान के अनुप्रयोग " विषय पर इस संस्थान द्वारा दिनांक 13 जुलाई, 2020 से 24 जुलाई, 2020 तक संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम को समन्वित किया।

This is to certify that **DR. NAMDEV VASANT TELORE**, working with **Raja Shripatrao Bhagawantrao Mahavidyalaya, Aundh, Satara, Maharashtra**, has coordinated the online training course on "**Application of Geoinformatics in Ecological Studies**" conducted by this institute during July 13, 2020 to July 24, 2020.

दिनांक/ Date: 01-10-2020

देहरादून/ Dehradun

प्रमुख,

जियोवेब सर्विसेस, सूचना प्रौद्योगिकी एवं दूरस्थ अधिगम विभाग

Head, Geoweb Services, IT & Distance Learning Department, IIRS

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भू-स्थानिक प्रौद्योगिकी एवं आउटरीच कार्यक्रम समूह

Group Head, Geospatial Technologies & Outreach Programme Group, IIRS