

Raja Shripatrao Bhagwantrao Mahavidyalaya, Aundh, Satara

59th IIRS Outreach Programme on 'Overview of Planetary Geosciences with special emphasis to the Moon' **08/06/2020 to 12/08/2020**

Sponsored by NNRMS and organized by IIRS/ ISRO, Dept. of Space, Govt. of India,
Dehradun

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 59th IIRS ISRO Outreach Programme. Please accept it.

1. Name of Programme: Overview of Planetary Geosciences with special emphasis to the Moon and Mars

2. Duration: 08/06/2020 to 12/06/2020 **Total Days: 05**

3. Number of enrolled students: 04

4. Name of Coordinator: Dr. Telore Namdev Vasant

5. Name of Resource Persons: i) Dr. Prakash Chauhan ii) Mrs Richa U Sharma
iii) Dr SL Chatteraj iv) Dr. Mamata Chauhan

6. Objectives of the Programme:

i. To take overview of Planetary Geosciences with special emphasis to the Moon and Mars

7. Outcome of the Programme:

i. Participants taken overview of Planetary Geosciences with special emphasis to the Moon and Mars

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

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

IIRS Outreach Programme

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

- Central/State/Private Universities & Academic Institutions
- Central & State Disaster Management Centers
- State Remote Sensing Departments
- Research Institutes
- Earthquake engineering/ geotechnical Industries
- NGOs

Feedback Mechanism

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



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

Awards

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).



Dr. Namdev V. Telore
Coordinator

IIRS Outreach Programme, Dehradun
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 (<http://elearning.iirs.gov.in>).

Contact Details

Dr. R.S. Chatterjee
Course Director
Tel: 0135-2524156

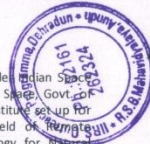
Email: rschatterjee@iirs.gov.in

Dr. Harish Karnatak
Programme coordinator
Head, GIT & DL Dept.
Tel: 0135-2524332

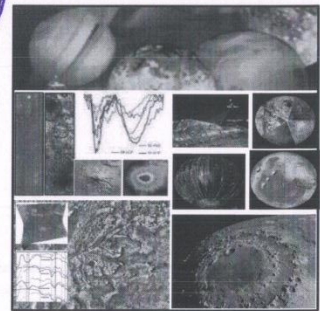
Dr. Mamta Chauhan
Course Coordinator
Tel: 0135-2524273
Email: mamtachauhan@iirs.gov.in

IIRS DLP Team
Dr. Poonam S Tiwari
Tel: 0135-2524334
Mr. Janardan Vishwakarma
&
Mr. Ashok Ghildiyal
Tel: 0135-2524130

Indian Institute of Remote Sensing,
Indian Space Research Organisation
Department of Space, Govt. of India,
4-Kalidas Road, Dehradun
Email: dip@iirs.gov.in



Fifty Nine IIRS Outreach Programme



Overview of Planetary Geosciences with special emphasis to the Moon and Mars

June-08-12, 2020



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

www.iirs.gov.in

About the Course

Planetary exploration has revealed several interesting facts related to the surface features on the planets and their satellites. The workshop on Planetary Geosciences is planned to provide an overview of planetary science, introduce students to the geology of the Moon and Mars and applications of various remote sensing techniques in analyzing their surface characteristics. We invite you to attend this training program on "Overview of Planetary Geosciences with special emphasis to Moon and Mars" The course is scheduled from April 13-17, 2020.

Course Contents

Overview of Planetary Geosciences with special emphasis to the Moon and Mars

- Planetary Geoscience: Issues and Challenges
- Geology of the Moon
- Remote Sensing of the Moon: Tools and Techniques
- Geology of the Mars
- Remote Sensing of Mars: Tools and Techniques

Practicals/Demo Exercises

- Planetary data downloading and handling
- Tutorial cum hands on exercises on Hyperspectral data processing and analysis for Moon
- Tutorial cum hands on exercises on Microwave data processing and analysis for Moon

Dr. Namdev V. Telore
Coordinator

IIRS Outreach Programme, Dehradun
Mahavidyalaya, Aundh (Satara)

Target Participants

The course is designed for professionals from Central State Govt. / Private Organizations, Universities/ NGO/ students & researchers engaged in Earth and Planetary sciences. 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, practical and demonstration handouts, etc. will be made available through IIRS ftp link. Video lectures will also be uploaded on YouTube Channel (<http://www.youtube.com/user/edusat2004>).

Course Fee

There is no course fee for attending this programme.

Course Registration

Course updates and other details will be available on URL- <http://www.iirs.gov.in/Edusat-News/>. All the participants has to register online through registration page available on above web page.

Award of Certificate

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



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

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

- Online live lecture through <https://eclass.iirs.gov.in/login> or <https://elearning.iirs.gov.in/>

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: Institutions/ Universities have to bear total expenses for establishment of the classroom facility.

Dr. Namdev V. Telore
Coordinator
Raja Shripatrao Bhagwantrao
Mahavidyalaya, Aundh (Satara)



Department of Space, Government of India
Indian Space Research Organisation (ISRO)
Indian Institute of Remote Sensing, Dehradun

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59th IIRS Outreach Programme
on

“Overview of Planetary Geosciences with special emphasis to the Moon and Mars”

June 08, 2020 to June 12, 2020


Lecture Schedule

Sr. No.	Date	Time	Name of the topic	Faculty	Dept.
1	08 June, 2020	10: 30 - 11: 30 Hr	Planetary Geoscience: Issues and Challenges	Dr. Prakash Chauhan	GSD
2	09 June, 2020	10: 30 - 11: 30 Hr	Geology of the Moon	Dr. S.L. Chatteraj	
3	10 June, 2020	10: 30 - 11: 30 Hr	Remote Sensing of the Moon: Techniques and Findings	Dr. P.K. Champati Ray	
4	11 June, 2020	10: 30 - 11: 30 Hr	Geology of Mars	Dr. Mamta Chauhan	
5	12 June, 2020	10: 30 - 11: 30 Hr	Remote Sensing of Mars	Dr. Mamta Chauhan	
		11: 30 - 12: 30 Hr	Microwave remote sensing with emphasis on Indian Moon Missions	Dr. R.S. Chatterjee	

Practicals/Demo Exercises

Sr. No.	Date	Time	Name of the topic	Faculty	Dept.
1	09 June, 2020	15:00 -16:00 Hr	Planetary data downloading and handling	Dr. S.L. Chatteraj	GSD
2	10 June, 2020	15:00 -16:00 Hr	Tutorial cum hands on exercises on Hyperspectral data processing	Mrs. Richa U. Sharma	
3	11 June, 2020	15:00 -16:00 Hr	Tutorial cum hands on exercises on Lunar data analysis	Dr. Mamta Chauhan	


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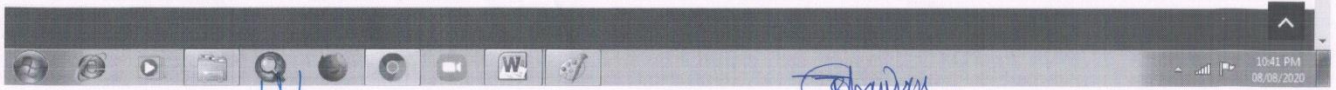
- Ongoing Courses
- Live Lecture
- Offline Session
- Past Courses**
- Future Courses
- Update Student Records
- Change Password
- View Profile
- Sign Out

59- IIRS Outreach Programme on Overview of Planetary Geosciences with special emphasis to the Moon and Mars

- View Student
- attendance
- attendance status
- Study Material
- Download Certificates

Attendance Record for Course on Overview of Planetary Geosciences with special emphasis to the Moon and Mars

Registration Number	Name	Total Sessions	No. of sessions attended	%ge of Attendance	Eligibility for Examination/Certificate
2020590116811	MR. RUPESH GORAKHNATH PAWAR	9	8	88.89	Yes
2020590117215	PROF. SANKET VASANT SAKUNDE	9	8	88.89	Yes
2020590121970	MR. PRASHANT RAMESH JAGADALE	9	8	88.89	Yes
2020590132743	MR. UMESH PRAKASH POTEKAR	9	8	88.89	Yes



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

(Signature)
I/O PRINCIPAL
 Rajantrao Mantrao
 Mahavidyalaya, Satara



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



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

COR593232020

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 देहारादून द्वारा संचालित ऑनलाइन प्रशिक्षण पाठ्यक्रम "ग्रहीय भूविज्ञान का अवलोकन : विशेषतः चन्द्रमा और मंगल ग्रह के सन्दर्भ में" में भाग लिया। इस ऑनलाइन पाठ्यक्रम का संचालन दिनांक 08 जून, 2020 से 12 जून, 2020 तक किया गया।

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दिनांक/ Date: 10-08-2020
देहारादून/ Dehradun

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

Dr. Namdev V Telore

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

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दिनांक/ Date: 10-08-2020
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