

INDIAN INSTITUTE OF REMOTE SENSING (IIRS), ISRO OUTREACH PROGRAMME

ANNUAL REPORT



IIRS-ISRO Outreach programme Activities

Academic Session: 2025-26

**LalBahadurShastri (LBS) Govt. College Saraswati
Nagar, Distt. Shimla, Himachal Pradesh**

(Nodal Centre for IIRS-ISRO Outreach Programme)

**Programme Coordinator: Mr. KailashChauhan
Assistant Professor, Department of Geography
Nodal Coordinator-IIRS ISRO Outreach Programme**



LAL BAHADUR SHASTRI GOVERNMENT COLLEGE Saraswati Nagar,

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LalBahadurShastri (LBS) Government College, Saraswati Nagar has been functioning as a Nodal Centre of the Indian Institute of Remote Sensing (IIRS), ISRO Outreach Programme since 06 May 2023. The programme aims to disseminate knowledge of Remote Sensing, Geographic Information System (GIS), Global Navigation Satellite System (GNSS), and other geospatial technologies among faculty members and students through online live and interactive sessions conducted by experts from IIRS, Dehradun.

Under this initiative, the college regularly enrolls faculty members and students in various short-term and two-week courses offered through the IIRS e-learning platform. The sessions are delivered through satellite-based and internet-based platforms, allowing participants to interact directly with scientists and subject experts from ISRO and IIRS. The programme has significantly enhanced the understanding of geospatial technologies and their applications in areas such as natural resource management, environmental monitoring, disaster management, and climate studies.

During the academic session 2025–26, several students and teachers from the college successfully participated in different IIRS outreach courses such as course numbers 165, 166, 169, 170, 172, 174 and workshop 1049. These programmes provided valuable exposure to the practical and theoretical aspects of remote sensing and GIS applications. A number of participants successfully completed the courses and were awarded certificates by IIRS (ISRO).

The programme at the college is coordinated by the Department of Geography, and the nodal coordination is carried out by Mr. Kailash Chauhan, Assistant Professor of Geography, who facilitates student registration, conducts the live sessions, and manages the technical arrangements for the programme.

The IIRS outreach programme has proved to be highly beneficial for the academic community of the college. It has strengthened the technical skills, research aptitude, and awareness of modern geospatial technologies among students and faculty members. The initiative has also helped in integrating space-based technologies with academic learning, thereby promoting scientific knowledge and innovation in the institution.

Overall, the functioning of LBS Government College, Saraswati Nagar as a Nodal Centre of the IIRS (ISRO) Outreach Programme has played a significant role in promoting capacity building and geospatial education among the students and teaching community of the college.

165 – Remote Sensing & Digital Image Analysis(focused on techniques for processing and interpreting satellite imagery)



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A four-week course on “Remote Sensing & Digital Image Analysis” was successfully conducted from 25 August 2025 to 19 September 2025 under the aegis of IIRS (ISRO), Dehradun through the Nodal Centre established at LBS Government College Saraswati Nagar during the academic session 2025–26. The course focused on various techniques used for processing and interpreting satellite imagery and provided participants with a fundamental understanding of digital image analysis and geospatial technologies. Three students from the college enrolled in the programme and actively attended the sessions. Out of them, one student successfully completed all the course requirements and was awarded the **course completion certificate by IIRS**. Certificates were also awarded to the **course coordinator and the institution** in recognition of their successful participation and coordination of the programme.

Certificate Awarded list

Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	Vanshika	2301014	BA 3 rd		

The screenshot displays the IIRS E-CLASS portal interface. At the top, there are logos for the Indian Institute of Remote Sensing (IIRS), the Government of India, and the E-CLASS system. The main header indicates the program: "165-IIRS Outreach Programme on Remote Sensing and Digital Image Analysis". Below this, there are navigation tabs: "View Student", "Attendance", "Attendance Status", "Study Material", and "Download Certificates". The "Students Record" section is active, showing a table with 3 entries. The table columns are: S.No., Roll No., Name, Email ID, Profession, Qualification, Subjects, Passing Year, ID Proof, and Status. The data rows show three students: 1. S.No. 1, Roll No. 20251652836842, Name: Tarun Zinta, Email ID: tarunzinta763@gmail.com, Profession: Student, Qualification: Pursuing Graduation, Subjects: Geography, Passing Year: 2026, ID Proof: View, Status: Approved. 2. S.No. 2, Roll No. 20251652836895, Name: Rajveer Singh, Email ID: rajveersinghbragta@gmail.com, Profession: Student, Qualification: Pursuing Graduation, Subjects: Geography, Passing Year: 2026, ID Proof: View, Status: Approved. 3. S.No. 3, Roll No. 20251652836902, Name: Vanshika, Email ID: hkarv66@gmail.com, Profession: Student, Qualification: Pursuing Graduation, Subjects: Geography, Passing Year: 2026, ID Proof: View, Status: Approved. The status "Approved" is highlighted in green. At the bottom, it says "Showing 1 to 3 of 3 entries" and "Students Record".

S.No.	Roll No.	Name	Email ID	Profession	Qualification	Subjects	Passing Year	ID Proof	Status
1	20251652836842	Tarun Zinta	tarunzinta763@gmail.com	Student	Pursuing Graduation	Geography	2026	View	Approved
2	20251652836895	Rajveer Singh	rajveersinghbragta@gmail.com	Student	Pursuing Graduation	Geography	2026	View	Approved
3	20251652836902	Vanshika	hkarv66@gmail.com	Student	Pursuing Graduation	Geography	2026	View	Approved



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166 – Remote Sensing & Numerical Ocean Modelling for Oceanic Processes(application of remote sensing in ocean science)

A one-week course on “Remote Sensing & Numerical Ocean Modelling for Oceanic Processes” was successfully conducted from **25 August 2025 to 29 August 2025** under the aegis of **IIRS (ISRO), Dehradun** through the Nodal Centre established at **LBS Government College Saraswati Nagar** during the academic session **2025–26**. The course highlighted the application of remote sensing techniques in ocean science and provided insights into numerical modelling of oceanic processes. Five students from the college enrolled in the programme and actively attended the online sessions delivered by experts from IIRS. Out of them, two students successfully completed the course and were awarded **course completion certificates by IIRS**. The programme helped participants understand the role of satellite data and modelling techniques in studying ocean dynamics and marine environments. Certificates were also awarded to the **course coordinator and the institution** for successfully facilitating the programme.

Certificate Awarded list

Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	Arnav Chauhan	2401079	BA 2 nd		
02	Hans	2401142	BA 2 nd		



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Students successfully awarded IIRS (ISRO) Certificate by the Principal of the college



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166- IIRS Outreach Programme on Remote Sensing and numerical ocean modelling for oceanic processes

View Student Attendance Attendance Status Study Material Download Certificates

Mr. Kailash Chauhan

Ongoing Courses

Guidelines

Live Lecture

Offline Session

Past Courses

Future Courses

Update Student Records

Apply Digital Signature

Special Admission

Change Password

Logout

Attendance Record For Course On Remote Sensing And Numerical Ocean Modelling For Oceanic Processes

Show 10 entries

Registration Number	Name	Total Sessions	No. of sessions attended	% of Attendance	Eligibility for Examination/Certificate
20251662837071	MS. GUNAL	5	3	60.00	No
20251662837132	MS. DEVYANDHI	5	1	20.00	No
20251662839089	MS. ANSHIKA NEGI	5	2	40.00	No
20251662839354	MR. ARUN	5	2	40.00	No
20251662839419	MR. UNIQUE THAKUR	5	2	40.00	No

Showing 1 to 5 of 5 entries

Students Record

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

नामिकन सं. / Enrolment No. : 20251662837497

CERTIFICATE OF MERIT
ONLINE COURSE

यह प्रमाणपत्र
MR. HANS
को " महासागरीय प्रक्रियाओं के लिए रिमोट सेंसिंग और संख्यात्मक महासागर मॉडलिंग " में ऑनलाइन पाठ्यक्रम पूर्ण करने पर प्रदान किया जाता है।
इस ऑनलाइन पाठ्यक्रम का आयोजन 2025-08-25 से 2025-08-29 (कुल पाठ्यक्रम की अवधि = 5 घंटे) के दौरान किया गया।
(सर्वाधिकार आई.आई.आर.एस. संस्थान, देहरादून, एन.सी.एस. संस्थान, कोलकाता सरकार, कोलकाता संरक्षित।)

THIS CERTIFICATE IS
AWARDED TO
MR. HANS
ON COMPLETION OF THE ONLINE COURSE ON
"Remote Sensing and numerical ocean modelling for oceanic processes"
THIS ONLINE COURSE WAS CONDUCTED DURING 25 August 2025 to 29 August 2025 (Total course duration = 5 hrs).
(Concerned IIRS Nodal Centre- IIRS Govt. College Saraswati Nagar)

Online Exam Grade: **A+**
Attendance: **100 %**

Date: 22-10-2025
Place: Dehradun

समन्वयक, विश्वविद्यालय/संस्थान
Coordinator, University/ Institution

निदेशक/ Director
आई.आई.आर.एस., देहरादून/ IIRS, Dehradun

UID: 082fe96899d9cc766b0cf5220f3d This Certificate can be validated using URL- <https://certificate-iirs.gov.in>

* >80% - (A+), 70-80% - (A), 60-70% - (B+), 40-60% - (B)

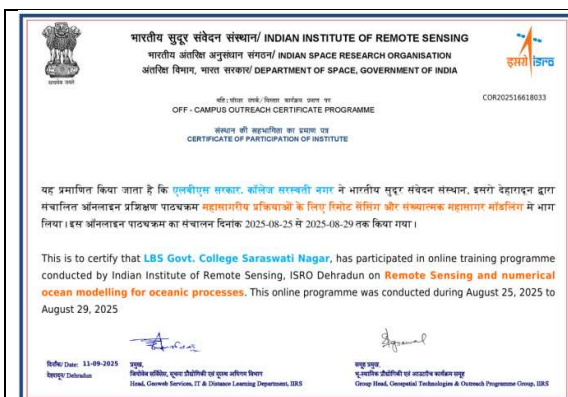


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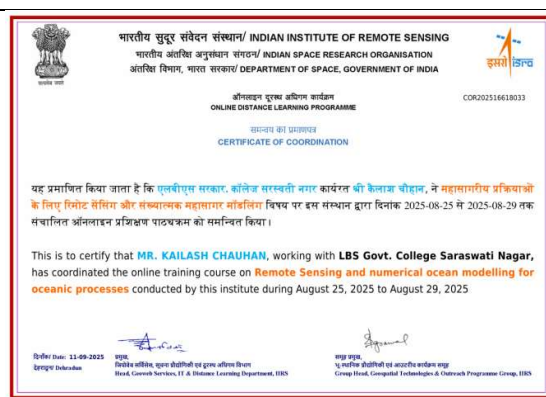
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Institution Conferred Certificate by IIRS (ISRO)



Cordiantor awarded certificate by IIRS (ISRO)



Students Certificate



Students certificate



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Students Awarded IIRS Certificates by the College Principal



Faculty Members Awarded IIRS Certificates by the Principal

169 – बेसिकरिमोटसेंसिंगऔर GIS (Hindi)(basic remote sensing and GIS concepts in Hindi)

A two-week course on “Basic Remote Sensing and GIS (Hindi)” was successfully conducted from **8 September to 19 September 2025** under the aegis of IIRS (ISRO), Dehradun through the Nodal Centre established at **LBS Government College Saraswati Nagar** during the academic session **2025–26**. The course was designed to introduce the fundamental concepts of **Remote Sensing and Geographic Information System (GIS)** in Hindi, making geospatial technologies more accessible to students. The programme covered the basic principles of satellite remote sensing, GIS applications, and their importance in resource management and environmental studies. **Five students from the college enrolled in the programme and actively participated in the online sessions delivered by experts from IIRS. All the enrolled students successfully completed the course and were awarded certificates by IIRS. Certificates were also provided to the course coordinator and the institution for facilitating the programme.**

Certificate Awarded list

Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	AnshikaNegi	2401002	BA 2 nd		
02	Pawan	2301004	BA 3 rd		



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03	Vanshika	2301014	BA 3 rd		
04	Rahul	2301029	BA 3 rd		
05	Suman	2501107	BA 3 rd		

170 – Overview of Global Navigation Satellite System (GNSS)(fundamentals of GNSS technologies)

A two-week course on “Overview of Global Navigation Satellite System (GNSS)” was successfully conducted from **22 September to 03 October 2025** under the aegis of **IIRS (ISRO), Dehradun** through the Nodal Centre established at **LBS Government College Saraswati Nagar** during the academic session **2025–26**. The course focused on the fundamental concepts of **Global Navigation Satellite System (GNSS)** technologies and their applications in positioning, navigation, and mapping. The programme provided participants with knowledge about satellite-based navigation systems, data acquisition, and the use of GNSS in geospatial studies. **Eight students and three faculty members from the college participated** in the online sessions delivered by experts from IIRS. **Out of them, three faculty members and one student successfully completed the course and were awarded certificates by IIRS.** Certificates were also provided to the **course coordinator and the institution** for successfully facilitating the programme.

Certificate Awarded list

Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	Dr.Sandeep Kumar	Assistant Professor Commerce (Faculty Member)			
02	Dr.Radha Raman Gautam	Assistant Professor Physics (Faculty Member)			
03	Dr.Punam Chauhan	Assistant Professor Zoology (Faculty Member)			
04	Hans	2301029	BA 3 rd		



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Certificate of faculty member

172 – Overview of Geographical Information System(introduction to GIS principles and tools)

A two-week course on “Overview of Geographical Information System” was successfully conducted from **06 October 2025 to 29 October 2025** under the aegis of **IIRS (ISRO), Dehradun** through the Nodal Centre established at **LBS Government College Saraswati Nagar** during the academic session **2025–26**. The course introduced the fundamental principles, concepts, and tools of **Geographical Information System (GIS)** and highlighted its applications in spatial analysis, mapping, and resource management. **Three students and one faculty member from the college enrolled** in the programme and participated in the online sessions delivered by experts from IIRS. **Out of them, two students and one faculty member successfully completed the course and were awarded certificates by IIRS.** Certificates were also provided to the **course coordinator and the institution** for successfully facilitating the programme.

Certificate Awarded list



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Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	ArnavChauhan	2401079	BA 2 nd		
02	Hans	2401142	BA 2 nd		
03	Dr.Sanjeev Kumar	Assistant Professor Political Science (Faculty Member)			

174 – RS & GIS Applications in Natural Resource Management(application of geospatial tools for natural resources)

A two-week course on “RS & GIS Applications in Natural Resource Management” was successfully conducted from 10 November 2025 to 21 November 2025 under the aegis of IIRS (ISRO), Dehradun through the Nodal Centre established at LBS Government College Saraswati Nagar during the academic session 2025–26. The course focused on the application of Remote Sensing (RS) and Geographic Information System (GIS) tools in the management and monitoring of natural resources. The programme highlighted the use of geospatial technologies for sustainable resource planning, environmental monitoring, and decision-making. Eleven students from the college enrolled in the programme and participated in the online sessions delivered by experts from IIRS. Out of them, three students successfully completed the course and were awarded certificates by IIRS. Certificates were also provided to the course coordinator and the institution for successfully facilitating the programme.

Certificate Awarded list

Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	Divya		BA 2 nd		
02	Hans	2401142	BA 2 nd		
03	Suman	2501107	BA 3 rd		

1049 – Mapping & Monitoring Greenhouse Gases through Space (workshop on space-based monitoring of greenhouse gases)

A one-day workshop on “Mapping & Monitoring Greenhouse Gases through Space (Course/Workshop No. 1049)” was successfully conducted on 02 September 2025 under the aegis of IIRS (ISRO), Dehradun through the Nodal Centre established at LBS Government College Saraswati Nagar during the academic session 2025–26. The



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workshop focused on the use of **space-based technologies and satellite data for mapping and monitoring greenhouse gases** and understanding their role in climate change studies. The programme highlighted the application of remote sensing techniques in tracking atmospheric gases and assessing environmental changes. **Three students from the college enrolled in the workshop and actively participated in the online sessions delivered by experts from IIRS. All the enrolled students successfully completed the workshop and were awarded certificates by IIRS.** Certificates were also provided to the course coordinator and the institution for successfully facilitating the programme.

Certificate Awarded list

Sr. No.	Students	Class Roll No.	Class	Signature	Certificate (Yes/No)
01	Nikita	2501010	BA 1 st		
02	ChetanDhalta	2401136	BA 2 nd		
03	Unique Thakur	2401137	BA 2 nd		

KailashChauhan
Assistant Professor (Geography)
Cum-Coordinator IIRS (ISRO) outreach programme
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Mobile No. 7018477898
Email id-kchauhan666@gmail.com