



FINAL REPORT
OF
NATIONAL SEMINAR
ON
APPLICATIONS OF GIS & REMOTE
SENSING AND CAREER OPPORTUNITIES

ORGANIZED BY
DEPARTMENT OF GEOGRAPHY
SAMRAT PRITHVIRAJ CHAUHAN
GOVERNMENT COLLEGE, AJMER
IN COLLABORATION WITH
E-LEARNING INSTITUTE OF
GEOINFORMATICS TECHNOLOGY, NEW DELHI

ON

3RD JANUARY, 2023



FROM 10 AM
TO 03 PM



CONFERENCE HALL,
DEPARTMENT OF GEOGRAPHY

SAMRAT PRITHVIRAJ CHAUHAN GOVERNMENT COLLEGE, BEAWAR ROAD, AJMER

FINAL REPORT OF NATIONAL SEMINAR

Timings: 10:30 AM to 03:00 PM

Mode: Offline

Venue: Conference Hall, Department of Geography

Total Registrations:

ABOUT THE SEMINAR

The Department of Geography, S.P.C. Government College, Ajmer organised a National Conference on "*Applications of GIS & Remote Sensing and Its Career Opportunities*". The seminar was conducted in collaboration with E-learning Institute of Geoinformatics Technology. The Faculty, Research Scholars and Students of S.P.C. Government College, Ajmer, S.R.K.P. Girls' College, Kishangarh and Government Girls' College, Ajmer, participated in the seminar. The main objective of the seminar was to enhance the knowledge of GIS and remote sensing among the participants and provide the future prospects of the spatial technology.

ABOUT GEOINFORMATICS

Geoinformatics has emerged as a field of study that is focused on basic questions about the acquisition, storage, management, analysis and visualization of geographic information within Geographic Information Systems (GIS). Geoinformatics researchers develop new computational, visual analytical, and statistical methods to process, analyse and understand big geospatial and temporal data. Geoinformatics helps to support basic scientific enquiry as well as help address complex social and environmental challenges (e.g., climate change, public health, migration, transportation safety, and security). In fact, the technique offer much potential for the extraction of improved geographical information using remotely sensed satellite imagery. The stream focuses on use of multisensory, hyperspectral and multi-view angle approaches to handle spatial temporal analysis.

OBJECTIVES

The primary objectives of the seminar were:

- Basics of GIS & Remote Sensing;
- Types of GIS Data and its sources;
- Collection of data through satellites;

- Processing and analysis of geographic information;
- Learning how to use GIS and RS software;
- Various Applications of GIS & RS;
- Government Agencies & Institutes related to GIS & RS;
- Career Opportunities in this field.

BRIEFING ABOUT THE SEMINAR

We received 150 registrations for the seminar, out of which 120 participants attended the seminar. The seminar was scheduled for one day and had two technical sessions. The first session was an introductory session about the basics of GIS & Remote Sensing followed by its applications and career opportunities. The second technical session focused on the “Use of GIS & Remote Sensing in Research Studies”.

REGISTRATION

The participants reported at the registration desk by 9:45 am.

INAUGURAL SESSION

The seminar commenced with lighting the lamp before Goddess Saraswati.

During the Inauguration of the Seminar, **Dr Milan K. Yadav** (HOD, Geography) felicitated and welcome the principal **Mrs. Kalpana Arora** and motivated the participants towards learning through seminar.

Mrs. Pratibha Sharma, Associate Professor, Department of Geography welcomed the guest **Dr Anil Dadhich**, HOD, Department of English.

Dr Kirti Choudhary Associate Professor, Department of Geography welcomed the guest **Mrs. Rohini Yadawar**, HOD, Geography, S.K.R.P. Girls’ College, Kishangarh.

Mr. Binay Kumar Associate Professor, Department of Geography welcomed the speaker **Mr. Dhruv Saxena**, Centre Head, E-Learning Institute of Geoinformatics Technology, New Delhi.

Mr. Sunil K. Sharma Associate Professor, Department of Geography welcomed the second speaker **Mr. Aman Kakkar**, Technical Analyst, E-Learning Institute of Geoinformatics Technology, New Delhi.

Dr Richa Rawat Assistant Professor, Department of Geography welcomed third speaker **Ms. Shubhangi**, Technical Associate, E-Learning Institute of Geoinformatics Technology, New Delhi.

Mr. Sanjeev K. Verma Associate Professor, Department of Geography welcomed Mr. Himanshu Mahawar, Assistant Professor, Department of Geography, S.K.R.P. Girls' College, Kishangarh.

MESSAGE FROM PRINCIPAL (Dr Kalpana Arora)

It is a matter of immensely pleasure that geography department has stepped out in organizing a National Seminar on GIS & Its Applications which would be in great demand in coming future. Under the able guidance of our faculty members department continues to march on the way of success with confidence. The sharp, clear-sighted vision and precise decision-making powers of our staff will surely benefit our college and students.

VICE-PRINCIPAL MESSAGE (Dr Anil Dadhich)

I would like to congratulate HOD, staff members, students of geography department and participants from other colleges for their efforts in organizing and participating in this seminar and wish the seminar all the success. The dedicated HOD's and staff members and disciplined students of geography are the added features of our college. The role of students in building nation cannot be overlooked and students who have gathered here will surely learn various aspects on the topic. On this occasion, I would like to wish the students all the very best.

CONVENOR MESSAGE (Dr Milan Kumar Yadav)

Dr Milan Kumar Yadav, HOD, Department of Geography, Convener of the seminar warmly welcomed all the students and staff of SPCGCA as well as other colleges. He stated how these types of seminars provide practical learning opportunities to the students apart from their theoretical learning. He briefed the participants about the learning structure of the seminar and how this will be useful in their career path. He appealed the participants to be active during the seminar and ask their queries after the session.

TECHNICAL SESSION – I

The session was segregated into three parts which were hosted by three speakers of E-learning Institute of Geoinformatics Technology, New Delhi.

- **First Session:-** The guest speaker **Ms. Subhangi Raman**, Research Expert, ELIGT, New Delhi explained the basics of GIS and how it acts as a powerful tool in the management of spatial information. She also highlighted the primary advantage of using GIS as a database for transportation data is the fact that GIS can integrate the spatial data and display the attribute data in a user-chosen format. Lastly, she reminded all participants not to hesitate to get into touch with their team.

- **Second Session:-** The guest speaker **Mr. Aman Kakkar**, Technical Expert, ELIGT, New Delhi elaborated basics of geospatial studies. He emphasised that GIS helps in answering: What is at a given location? Where does it occur? What is the best way? What has changed? What is the pattern? Modelling? etc. He focused on GIS, where the structure and format of GIS data, data input and transformation, database compilation, and the use of search criteria and data querying procedures and spatial modelling to carry out suitability mapping were examined.
- **Third Session:-** The guest speaker **Mr. Dhruv Saxena**, Centre Head, ELIGT, New Delhi focused on the application areas of GIS and Remote Sensing within the realm of Natural Resource Management and Environmental Advocacy.

TEA BREAK

The tea break started at 01:00 PM which lasted for 15 minutes.

TECHNICAL SESSION – II

The session began at 1:15 PM online on Google Meet platform. The resource person **Dr Amit Daiman**, Scientific Advisor, IELA Udaipur and Expert at IUCN, Switzerland had a great expertise in the field of GIS & RS. He discussed the requirements of interoperability in geo-spatial data and increasing role of GIS in monitoring forest fires, floods, predictions, water quality monitoring etc. He enlightened participants about the GIS software, especially concerning the following domains:

- Searching for information provided by satellites;
- Processing and analysis of geographic information;
- Learning how to use GIS and Remote Sensing software

He also gave a clear-cut vision for the career path.

VALEDICTORY SESSION

Dr Milan Kumar Yadav (Convener), appreciated the information and presentation methods displayed by the resource person and motivated the students to use them in their learning as much as possible. He expressed his gratitude to resource persons for being with the department in such short notice. He acknowledged the patience and active participation of the students and asked them to carry the same zeal of learning in future. He promised the participants to provide such useful seminar and workshops too. He also suggested the participants to share the feedback of the seminar by filling out the google form provided in the QR code.

Mrs. Pratibha Sharma, Associate Professor, Department of Geography delivered the vote of thanks. She thanked the principal for being the source of motivation. She also thanked the faculty members, administration and students for their constant support and participation.

CERTIFICATION

The participants were provided with certificates.

LEARNING OUTCOME OF THE SEMINAR

- These four sessions allowed participants to get familiar with basics of GIS & its applications, satellite data sets, image process routines, analysis methods and how to view and explore their results in an ArcGIS system, ERDAS and ENVI software.
- Participants learned about the various techniques of remote sensing and GIS which has many applications for sustainable development in rural and urban areas in the field of surveying, construction, transportation, water resources, environment, geological and coastal.
- Participants also learned how GIS domain amplifies the optimum use of land, the functional efficiency of a proposed design, its marketability etc.
- Participants also learned the applications of GIS & Remote Sensing in research methodology.
- Participants also learned various career opportunities related to GIS & RS.

SOME GLIMPSES OF THE EVENT

REGISTRATION



INAUGURAL SESSION



WELCOMING OF THE GUEST



TECHNICAL SESSION – I

SESSION - I BY MR. AMIT KAKKAR



SESSION - II BY MR. DHRUV SAXENA



SESSION - III BY SHUBHANGI



TECHNICAL SESSION – II

Conducted online by Dr. Amit Daiman

Required Skills

Most Required Skills In GIS (Source: Earth Observation Directory)

Government Organisations

- Indian Space Research Organization
- National Remote Sensing Center
- National Spatial Data Infrastructure
- Indian Institute of Remote Sensing
- Forest Survey of India
- Geological Survey of India
- Survey of India
- Department of Science and Technology
- Ministry of Defence
- Ministry of Environment
- National Informatics Centre

- Space Applications Centers (Haryana, North East)
- Indian Agricultural Research Institute
- Agricultural Department and Irrigation Department
- Meteorological Department
- Mining, Soil Conservation, Land Degradation, and Ground Water Management
- Natural Resource Management
- Indian Council of Agriculture Research
- Space Application Centers and Aviation
- Urban Development Authorities and Municipalities
- Watershed and Wetland Management

VALEDICTORY SESSION





एसपीसी जीसीए में भूगोल पर राष्ट्रीय सेमिनार

अजमेर। सम्राट पृथ्वीराज चौहान राजकीय महाविद्यालय में भूगोल विभाग एवं ई-लर्निंग इंस्टीट्यूट ऑफ जिओइन्फोरमेटिक टेक्नोलॉजी नई दिल्ली के संयुक्त तत्वावधान में अनुप्रयोग एवं रोजगार के अवसर विषय पर एक दिवसीय राष्ट्रीय सेमिनार आयोजित की। कार्यवाहक प्राचार्य डॉ. कल्पना अरोड़ा ने उद्घाटन किया। वक्ताओं ने भौगोलिक सूचना प्रणाली व सुदूर संवेदन की मूल अवधारणा व क्रियान्विति तथा रोजगार के अवसर विषयों पर विद्यार्थियों को विस्तृत जानकारी दी। इस दौरान संकाय सदस्य डॉ. अनिल दाधीच, डॉ. मिलन कुमार यादव, अमन कंकड़, ध्रुव सक्सेना, सुश्री शुभांगी रमन मौजूद रहे। इस राष्ट्रीय सेमिनार में रतनलाल कंवरलाल पाटनी कन्या महाविद्यालय, किशनगढ़ के भूगोल विभाग की विभागाध्यक्ष डॉ. रोहिणी व सहायक आचार्य श्री हिमांशु महावर स्नातकोत्तर भूगोल की 25 छात्राओं के साथ सहभागिता की। इस राष्ट्रीय सेमिनार के भूगोल विभाग के प्रो. प्रतिभा शर्मा, डॉ. मधु सिंह, प्रो. बिनय कुमार, डॉ. सुनील कुमार शर्मा, प्रो. संजीव कुमार वर्मा, डॉ. कीर्ति चौधरी, डॉ. ऋचा रावत, प्रो. संगीता पांचाल एवं महाविद्यालय के वरिष्ठ संकाय सदस्य डॉ. रेखा यादव, डॉ. के.जी. भड़ाना, डॉ. जितेन्द्र मारोठिया, प्रो. विकास सक्सेना उपस्थित रहे।

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सेमिनार में भूगोल की दी जानकारी

अजमेर @ पत्रिका. सम्राट पृथ्वीराज चौहान राजकीय महाविद्यालय में भूगोल विभाग एवं ई-लर्निंग इंस्टीट्यूट ऑफ जिओइन्फोरमेटिक टेक्नोलॉजी, नई दिल्ली के संयुक्त तत्वावधान में अनुप्रयोग एवं रोजगार के अवसर विषय पर राष्ट्रीय सेमिनार हुई। कार्यवाहक प्राचार्य डॉ. कल्पना अरोड़ा ने सेमिनार का उद्घाटन किया।

नई दिल्ली से आए विषय विशेषज्ञ अमन कंकड़, ध्रुव सक्सेना, शुभांगी रमन ने भूगोल के भविष्य और तकनीक के बारे में

विस्तार से बताया। सेमिनार में लगभग 100 प्रतिभागियों ने उत्साहपूर्वक सहभागिता दी। सेमिनार में भूगोल विभाग के विभागाध्यक्ष एवं राष्ट्रीय सेमिनार के संयोजक डॉ. मिलन कुमार यादव, आरके पाटनी कन्या महाविद्यालय किशनगढ़ के भूगोल विभाग की विभागाध्यक्ष डॉ. रोहिणी व सहायक आचार्य हिमांशु महावर, प्रो. प्रतिभा शर्मा, डॉ. मधु सिंह, प्रो. बिनय कुमार, डॉ. सुनील कुमार शर्मा, प्रो. संजीव कुमार वर्मा, डॉ. कीर्ति चौधरी, डॉ. ऋचा रावत, प्रो. संगीता पांचाल सहित अन्य मौजूद रहे।