

SOPHIA GIRLS' COLLEGE
(AUTONOMOUS), AJMER



DEPARTMENT OF GEOGRAPHY

2018-19

1. District Pre – Ph.D. Viva presentation on “Impact of National Capital Region on North – Eastern Part of Rajasthan: A Case Study of Alwar and Bharatpur”

Name of Department-Geography

Date of activity- 25th July, 2018

Level of Event- Institutional level

Venue: Sophia Girls’ College (Autonomous) Ajmer

Title of the Event- District Pre – Ph.D. Viva presentation on “Impact of National Capital Region on North – Eastern Part of Rajasthan: A Case Study of Alwar and Bharatpur”

Number of Participants- 25

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls’ College (Autonomous), Ajmer, Rajasthan	9829506865	Teacher Coordinator

Department of Geography organized the Pre – Ph.D. Viva on “Impact of National Capital Region on North – Eastern Part of Rajasthan: A Case Study of Alwar and Bharatpur District” for Research Scholar under the supervision of Research Guide, Dr. Monika Kannan.



Learning Outcomes

1. The students developed an understanding towards the research.
2. Students were equipped with data analysis software along with patterns of research writing, report writing and graphical presentation techniques.
3. Students established an understanding along with facilitating creative thinking and extensive research and reading.
4. The Participants were equipped with the various research nuances and skills based on investigative culture for pursuing Ph.D course works.

2. Students Exchange Programme

DEPARTMENT OF GEOGRAPHY



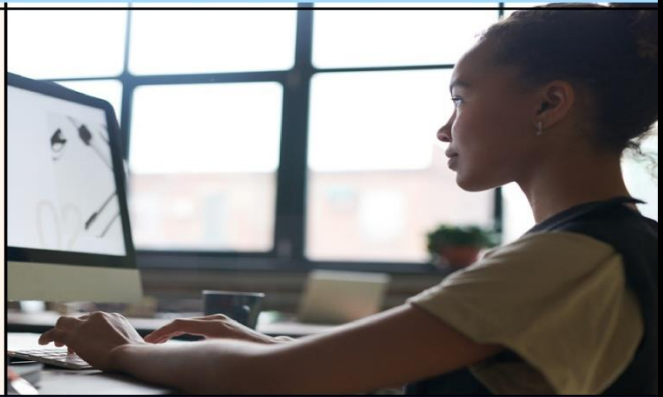
**SOPHIA GIRLS' COLLEGE (AUTONOMOUS),
AJMER**

VISIT TO PARISHKAR COLLEGE, JAIPUR



September 13th-
14th 2018

10 A.M. to 5 P.M.
Co-ordinator-
Dr. Monika
Kannan



**STUDENT EXCHANGE PROGRAM
TRAINING SESSION : SOIL TESTING
HANDS ON TRAINING SESSION ON MAP-
MAKING THROUGH QGIS BY DR. MONIKA
KANNAN**



Name of Department-Geography

Date of activity- 13th September, 2018

Level of Event- State level

Venue: Parishkar College Jaipur:

Title of the Event- Students Exchange Programme

Number of Participants- 50

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Manoj Saini	Associate Professor, Dept. of Geography	Parishkar College Jaipur	9057554883	Resource Person
2.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Resource Person
3.	Ms. Madhumita Hussain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9413695308	Teacher Coordinator
4.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator
5.	Ms. Shikha Sharma	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7737942422	Teacher Coordinator

The program was initiated by the depiction of the activities and character building of students of Parishkar college with help of a Video Clip which also consisted an amazing video of their play organized in 2013 created world record in Theatres named "Azaadi' Inspired our P.G students.



Learning Outcomes:

1. The students developed an understanding towards the team spirit and theatre performance i.e., Azadi.
2. The students enhanced the knowledge and skills of their oral as well as visual presentation skills.

3. Training Session at Parishkar College Jaipur: Soil Testing

DEPARTMENT OF GEOGRAPHY



**SOPHIA GIRLS' COLLEGE (AUTONOMOUS),
AJMER**

VISIT TO PARISHKAR COLLEGE, JAIPUR



September 13th-
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**STUDENT EXCHANGE PROGRAM
TRAINING SESSION : SOIL TESTING
HANDS ON TRAINING SESSION ON MAP-
MAKING THROUGH QGIS BY DR. MONIKA
KANNAN**



Name of Department-Geography

Date of activity- 13th September, 2018

Level of Event- State level

Venue: Parishkar College Jaipur:

Title of the Event- Training Session at Parishkar College Jaipur: Soil Testing for PG Students

Number of Participants- 24

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/Universit y	Contact Details	Contributed in the event as a-
1.	Dr. Manoj Saini	Associate Professor	Parishkar College Jaipur	9057554883	Resource Person

The students of PG along with the lecturers of Geography Department visited the Parishkar College in Jaipur. The objective was to train the P.G students to test the soil coming at Parishkar College, from nearly 100 villages in its technical soil testing lab. With the help of Digital PH meter, Spectrophotometer etc.



Learning Outcomes

1. The students developed an understanding towards the importance of *soil*.
2. Students were familiarized about the kinds of nutrients necessary to correct imbalances.

4. Hands on training on Map Making through QGIS

DEPARTMENT OF GEOGRAPHY



**SOPHIA GIRLS' COLLEGE (AUTONOMOUS),
AJMER**

VISIT TO PARISHKAR COLLEGE, JAIPUR



September 13th-
14th 2018

10 A.M. to 5 P.M.
Co-ordinator-
Dr. Monika
Kannan



**STUDENT EXCHANGE PROGRAM
TRAINING SESSION : SOIL TESTING
HANDS ON TRAINING SESSION ON MAP-
MAKING THROUGH QGIS BY DR. MONIKA
KANNAN**



Name of Department-Geography

Date of activity- 14th September, 2018

Level of Event- State Level

Venue: Parishkar College Jaipur:

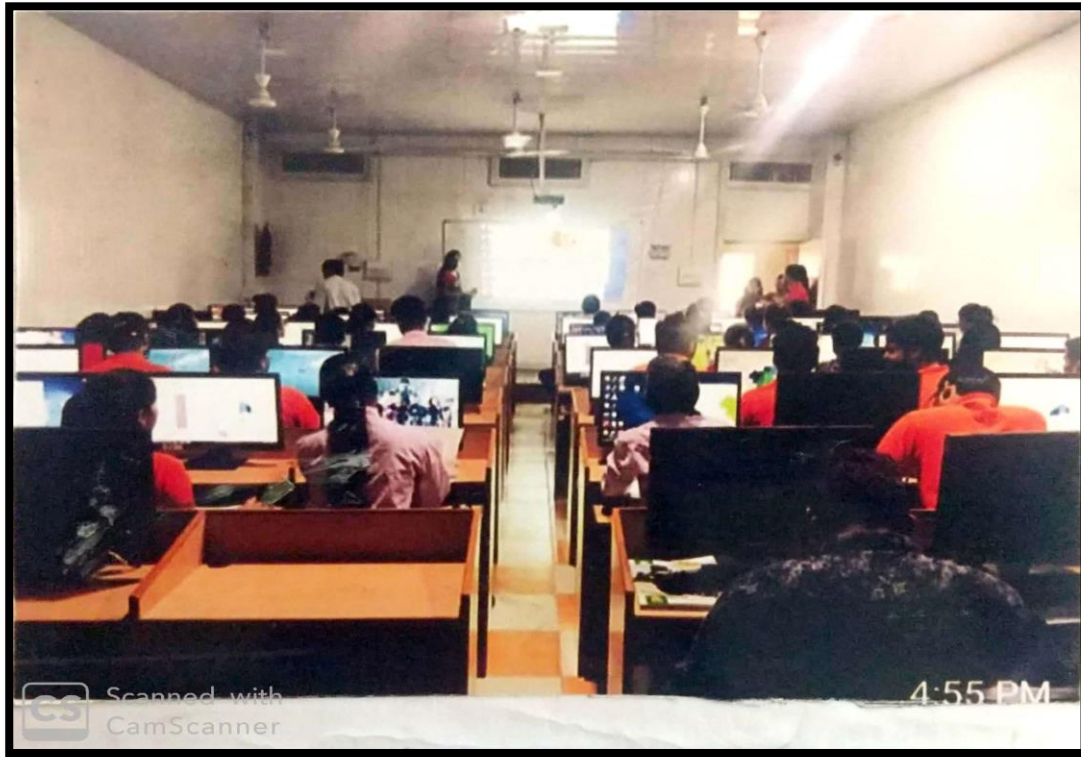
Title of the Event- Hands on training on Map Making through QGIS for PG Students.

Number of Participants- 50

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Teacher Coordinator

The Head, Department of Geography Dr. Monika Kannan took the one-day workshop on Geospatial Technologies for the students of Parishkar College and P.G students of Geography department (Sophia Girls' College, Ajmer). This workshop was to explain Map-Making through open-source software QGIS.



Learning Outcomes:

1. Students developed an understanding towards the new advance GIS technology.
2. Students were apprised with research techniques of Data tabulation, compilation and analysis.
3. Students were able to create their own maps by using the software.

5. Staff Exchange Program at Parishkar

DEPARTMENT OF GEOGRAPHY



**SOPHIA GIRLS' COLLEGE (AUTONOMOUS),
AJMER**

VISIT TO PARISHKAR COLLEGE, JAIPUR



September 13th-
14th 2018

10 A.M. to 5 P.M.
Co-ordinator-
Dr. Monika
Kannan



**STUDENT EXCHANGE PROGRAM
TRAINING SESSION : SOIL TESTING
HANDS ON TRAINING SESSION ON MAP-
MAKING THROUGH QGIS BY DR. MONIKA
KANNAN**



Name of Department-Geography

Date of activity- 14th September, 2018

Level of Event- State level

Venue: Parishkar College Jaipur:

Title of the Event- Staff Exchange Program at Parishkar

Number of Participants- 5

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Resource Person
2.	Ms. Madhumita Hussain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9413695308	Teacher Coordinator
3.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator
4.	Ms. Shikha Sharma	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7737942422	Teacher Coordinator
5.	Dr. Manoj Saini	Associate Professor, Department of Geography	Parishkar College, Jaipur	9057554883	Faculty

The Department of Geography of Sophia Girls College, Ajmer and Director along with the faculty of Geography of Parishkar College, Jaipur met to discuss the upcoming activities and set an agenda to improve the personality of students as an individual, it was organized by an AMU.



Learning Outcomes:

1. Faculties were familiarized with sharing the different teaching pedagogy of each other.
2. Faculties enhanced their knowledge and interaction with each other.

6. Interaction Session for NET

Name of Department-Geography

Date of activity- 25th September 2018

Level of Event- Institutional Level

Venue: Sophia Girls' College (Autonomous) Ajmer

Title of the Event- Interaction Session for NET

Number of Participants- 25

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Ms. Prachi Tomar	Alumni	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7597721452	Resource Person

The interaction session suggesting "How to Crack N.E.T Examination" was organized by the Department of Geography. Ms. Prachi Tomar (Alumni) gave some tips to P.G students about NET.



Learning Outcomes:

1. Students were familiarized with the pattern of UGC NET and Examination Scheme.
2. Students developed an understanding towards the importance of NET.
3. Students were apprised with the syllabus of NET, Time Table, Strategies etc.

7. Pre Ph.D “Urbanisation of Border District of Rajasthan along with Radcliff line:A Geopolitical analysis of Remote Sensing and GIS”

Name of Department-Geography

Date of activity- 06th November, 2018

Level of Event- Institutional level

Venue: Sophia Girls’ College (Autonomous) Ajmer

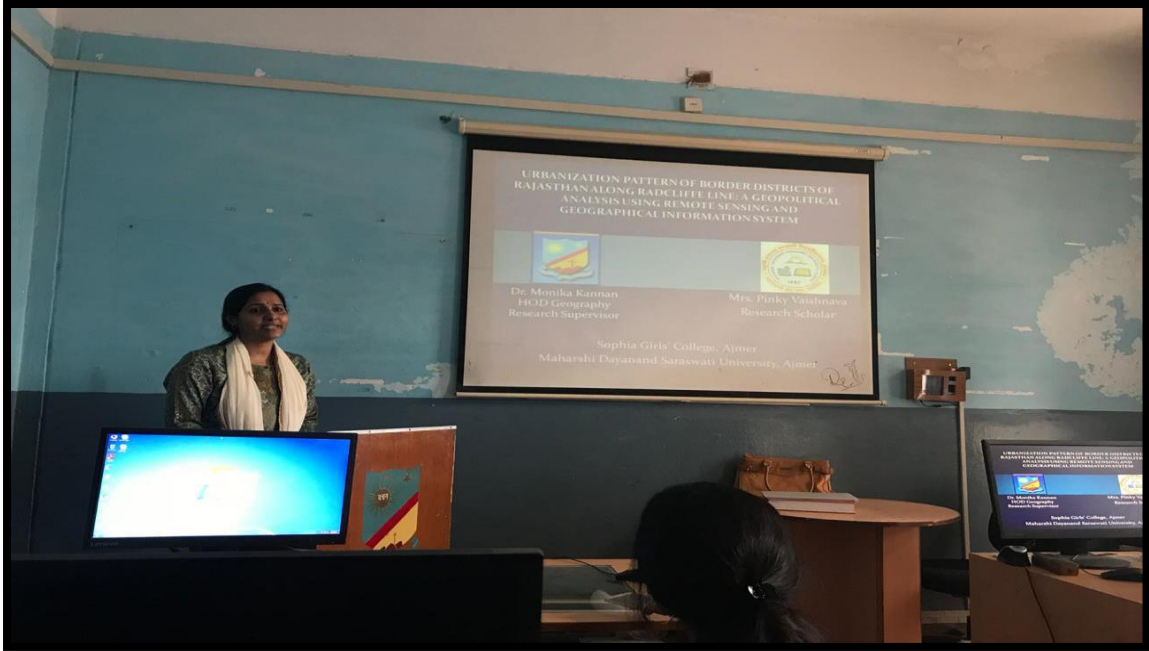
Title of the Event- Pre Ph.D “Urbanisation of Border District of Rajasthan along with Radcliff line:A Geopolitical analysis of Remote Sensing and GIS”

Number of Participants- 25

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls’ College (Autonomous), Ajmer, Rajasthan	9829506865	Teacher Coordinator

Department of Geography organized Pre Ph.D Viva on “Urbanisation of Border District of Rajasthan along with Radcliff line:A Geopolitical analysis of Remote Sensing and GIS” for Research Scholar under the supervision of Research Guide, Dr. Monika Kannan . The theme of Pre – Ph.D. viva was showcasing the Urbanisation of Border District of Rajasthan i.e., given by Mrs. Pinky Vaishnav.



Learning Outcomes

1. The students developed an understanding towards the research.
2. Students were equipped with data analysis software along with patterns of research writing, report writing and graphical presentation techniques.
3. Students established an understanding along with facilitating creative thinking and extensive research and reading.

8. Hands on Training session using GIS Techniques

Name of Department-Geography

Date of activity17th December, 2018

Level of Event- National level

Venue: Parvatibai Chowgule College of Arts and Science (Goa)

Title of the Event- Hands on Training session using GIS Techniques

Number of Participants- 15

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Resource Person

The Head, Department of Geography DR. Monika Kannan took the guest lecture cum one-day workshop on Geospatial Technologies for the students Parvatibai Chowgule College of Arts and Science (Goa). This workshop was to explain Map-Making through open-source software QGIS.



Learning Outcomes:

1. Students developed an understanding towards the new advance GIS technology.
2. Students were apprised with research techniques of Data tabulation, compilation and analysis.
3. Students were able to create their own maps using the software.
4. Students were equipped with research writing, report writing and graphical presentation techniques.

9. Educational Trip to North East



DEPARTMENT OF GEOGRAPHY
SOPHIA GIRLS' COLLEGE (AUTONOMOUS), AJMER

EDUCATIONAL TRIP TO NORTH EAST

Trip Date: 16th-23th December 2018



**INTERESTED STUDENTS KINDLY SUBMIT YOUR NAMES ON
OR BEFORE 20.11.2018**

Name of Department-Geography

Date of activity- 16th – 23rd December 2018

Level of Event- Institutional level

Venue: Sophia Girls' College (Autonomous) Ajmer

Title of the Event- North East Educational Trip.

Number of Participants- 68

Details of Resource Persons / Teacher Coordinators-

S. No.	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Mr. Sudhir Broka	Tour Planner	-	7014556879	Teacher Coordinator
2.	Ms. Shilpi Yadav	Assistant Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator
3.	Ms. Shikha Sharma	Assistant Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7737942422	Teacher Coordinator
4.	Ms. Apoorva Jain	Assistant Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	8005621728	Teacher Coordinator

An Educational Trip of 10 days was organized for the students of Geography (Under- Graduation and Post- Graduation) to places Gangtok, Nepal boarder, Darjeeling, Changu lake. Mirk Lake and monasteries (North East). to apprise them about field survey, Data collection, empirical techniques of Analysis.



Learning Outcomes:

1. The students developed an understanding about Nature/ Scenic beauty of North Eastern states and were familiarized with the rich cultural heritage of north eastern state of India.
2. The students were acquainted with different data collection tools such as- Questionnaire and optionnaires besides interview technique during the survey.
3. Students were apprised with tea plantation techniques and organic farming.

10. Visit to Indian Meteorological Department, Ajmer



**DEPARTMENT OF
GEOGRAPHY**

**SOPHIA GIRLS' COLLEGE
(AUTONOMOUS), AJMER**

ACTIVITY CO-ORDINATOR

Dr. Monika Kannan

Head of Department,
Department of Geography,
Sophia Girls' college (autonomous), Ajmer

Ms. Shilpi Yadav

Assistant Professor,
Department of Geography,
Sophia Girls' college (autonomous), Ajmer

ACTIVITY DATE: 5TH JANUARY 2019
TIME: 02:00 P.M.

INTERESTED STUDENTS KINDLY SUBMIT YOUR NAMES ON OR
BEFORE 25.12.2018

Name of Department-Geography

Date of activity-5th January 2019

Level of Event-Regional level

Venue: Meteorological Department, Ajmer

Title of the Event- Visit to Meteorological Department for P.G. Students

Number of Participants-25

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Teacher Coordinator
2.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator

A field visit to Indian Meteorological Department, Ajmer was organized for PG students of Geography Department (Sophia Girls' College, Ajmer) to the inculcate knowledge about the weather instruments and their uses.



Indian Meteorological Department



Learning Outcomes

1. The students developed an understanding about Meteorological phenomena.
2. The students were acquainted with different data collection tools such as- Questionnaire and optionnaires besides interview technique during the visit.
3. Students inculcate knowledge about the weather instruments and their uses.

11. Online Outreach Program on “Hyperspectral Remote Sensing and its applications

Name of Department-Geography

Date of activity-8th-12th January 2019

Level of Event- Institutional level

Venue: Sophia Girls’ College (Autonomous) Ajmer

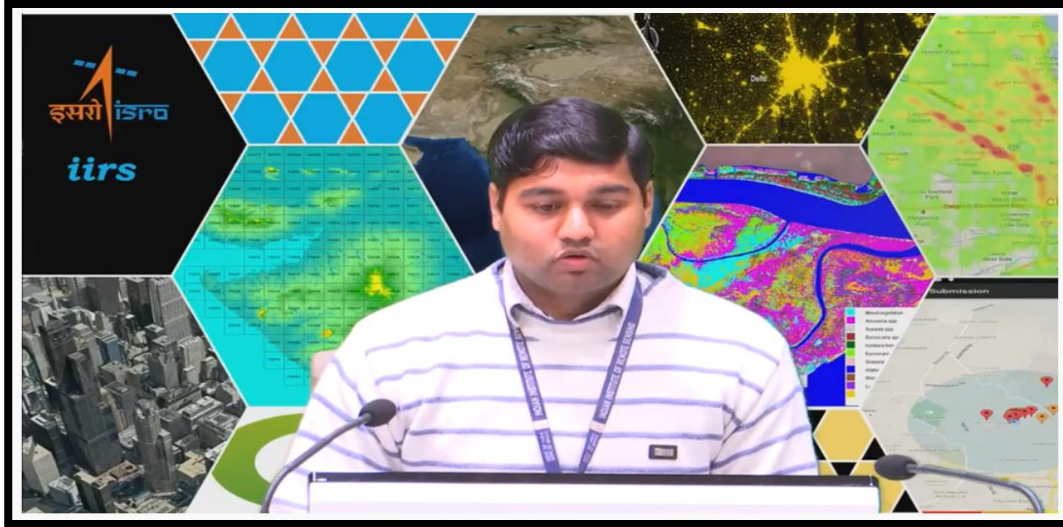
Title of the Event- Online Outreach Program on “Hyperspectral Remote Sensing and its applications

Number of Participants-23

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls’ College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator

An Online Outreach Program on ““Hyper spectral Remote Sensing and its applications was organized for the UG / PG Students of Sophia Girls’ College to apprise them with the use of Hyperspectral Remote sensing.



Multispectral Vs Hyperspectral

Multispectral	Hyperspectral
Multispectral instruments can <i>discriminate</i> materials.	Hyperspectral imaging is required to actually <i>identify</i> materials
Multispectral data are used to detect the existence of various materials	Hyperspectral data allows the identification of many materials even in mixed materials
Greater accessibility due to the larger number of space-based multispectral sensors	Most current hyperspectral sensors are airborne, hence inaccessible (in the Indian context)

Multispectral

Discrete bands

Hyperspectral

Continuous spectrum

EO-1 Hyperion Bands-10

Learning Outcomes:

1. Students inculcated practical skills for processing advance **remote sensing** datasets for various applications including natural resources management.
2. Students developed an understanding towards the new advance GIS technology.
3. Students were also inculcated with knowledge about the latest research techniques used for Remote sensing.

12. Hands on Training session using GIS Techniques at Pillai College, Mumbai

Name of Department-Geography

Date of activity-10th January, 2019

Level of Event- National level

Venue: Pillai College, Mumbai

Title of the Event- Hands on Training session using GIS Techniques at Pillai College, Mumbai

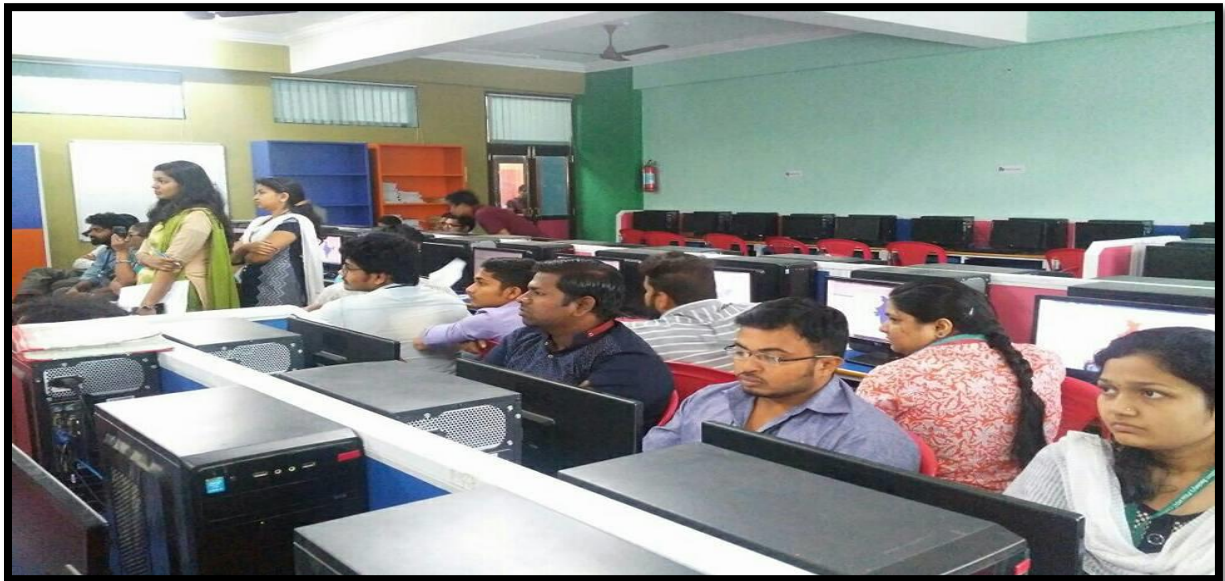
Number of Participants- 30

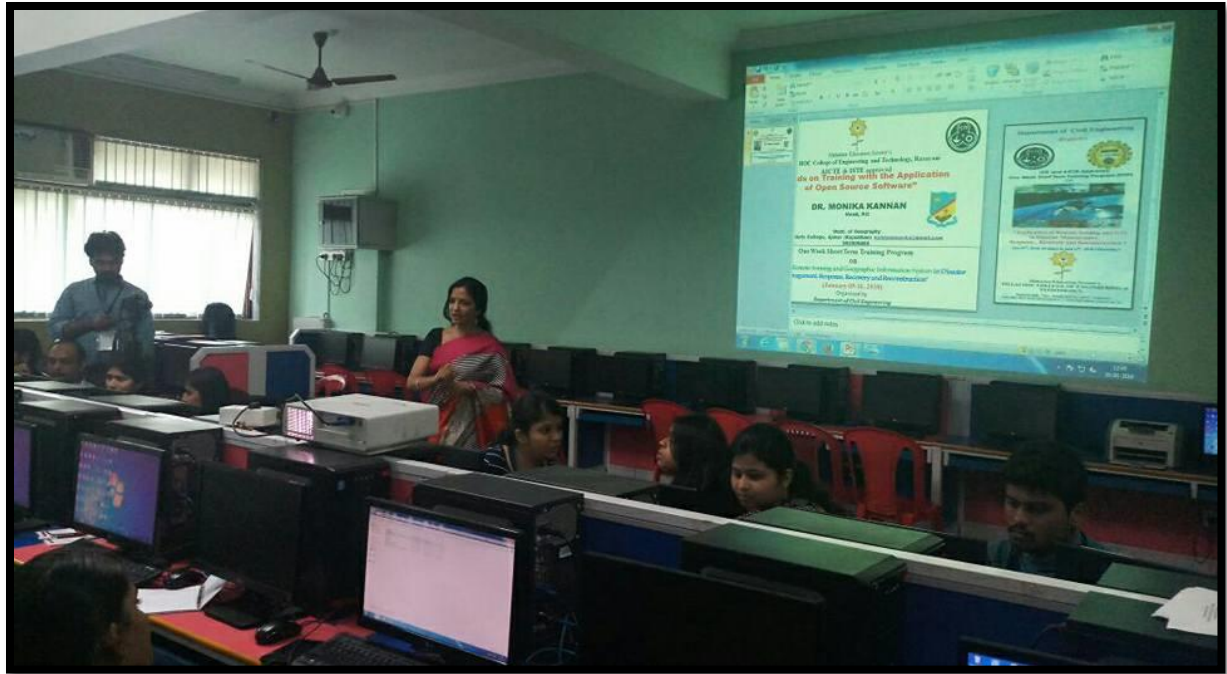
Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Resource Person

The Head of the Department of Geography Dr. Monika Kannan took the Hands-on Training session using GIS Techniques for the students Pillai College, Mumbai. This workshop was to explain Map-Making through open-source software QGIS.







Learning Outcomes:

1. Students inculcated practical skills for processing advance **remote sensing** datasets for various applications including natural resources management.
2. Students developed an understanding towards the new advance GIS technology.
3. Students were apprised with research techniques of Data tabulation, compilation and analysis.
4. Students were able to create their own maps using the software.

13. Flex Making Competition



DEPARTMENT OF GEOGRAPHY

Sophia Girls' College (Autonomous), Ajmer



Flex Making Competition

Activity Date: 22th January 2019

Time: 09:00 A.M.

Activity Co-ordinator:

Ms. Shilpi Yadav

Assistant Professor, Department of Geography,
Sophia Girls' College (Autonomous), Ajmer

**INTERESTED STUDENTS KINDLY SUBMIT YOUR NAMES ON OR
BEFORE 14.01.2019**

Name of Department-Geography

Date of activity-22nd January 2019

Level of Event- Institutional Level

Venue: Sophia Girls' College (Autonomous) Ajmer

Title of the Event- Flex Making Competition for PG Students.

Number of Participants- 25

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator

A Flex Making Competition was organized for the M.A./ MSc. Students of Geography Department. Flex was prepared by the students on the topic of "Basic of Remote Sensing, Geographical Information System and Global Positioning System". The Flexes were reflective of their understanding about the subject in a very effective manner.

LANDSAT 8 SATELLITE

Introduction
Landsat 8 is an advanced Earth observation satellite (operating under the auspices of the Landsat Program) that is a continuation of the Landsat series of Earth-observing satellites.

Launch date	31 Jan. 2013
Launch site	Wallops Flight Facility, Wallops Island, Virginia, USA
Landsat satellite	Advanced Very High Resolution
Contractor	Orbital Sciences Corporation
Orbital altitude	705 km (438 mi)
Orbital period	99 min 55 s
Orbit type	Sun-synchronous
Orbit inclination	98.62°
Orbit eccentricity	0.0001
Orbit speed	7.46 km/s (4.63 mi/s)
Orbit energy	28.5 MJ/kg (13.5 MJ/lb)
Orbit lifetime	5 years

Applications
Landsat 8 provides enhanced monitoring of the Earth's land surface, including monitoring of drought, forest, agriculture, and urban areas. It also provides monitoring of coastal waters, ice, and snow. Landsat 8 data is used for a wide range of applications, including monitoring of natural resources, urban planning, and disaster response.

Specifications
Mass: 2,900 kg (6,400 lb)
Length: 10.5 m (34 ft 6 in)
Diameter: 1.7 m (5 ft 7 in)
Power: 2,000 W (2.7 hp)
Temperature: -10 to 50°C (-14 to 122°F)
Vibration: 10 g (100 m/s²)
Shock: 100 g (1,000 m/s²)
Survivability: 100% (100%)

NAVSTAR GPS

(Navigation Satellite Timing & Ranging System)

- Navstar GPS is a satellite-based radio navigation system owned by the US Govt. & operated by the US Air Force.
- It is a Global Navigation Satellite System that provides precise location & time information to a GPS receiver.
- 24 Satellites are placed into 3 equally spaced orbital planes (2 Operational + 3 Spares).
- Navstar GPS is a constellation of orbiting satellites that provides navigation data to military & civilian users all over the world.

The GPS has 3 major segments:

1. Space segment
2. Control segment
3. User segment

Space Segment - GPS Satellites
The Navstar Satellites are arranged in 6 planes, each by a 12-hour, 20,000 km - high orbit.

The GPS Control Segment has 3 Monitor Stations & 3 Ground antennas with uplink capabilities.
Completed in 1980 & now designed to provide time, position & velocity data for ships, planes & land-based vehicles & for many other purposes.

Today, there are 24 fully operational GPS Satellites.
GPS reached full operational capability in April, 1995.

REMOTE SENSING

Basic Planning Techniques

- Remote sensing is the science of acquiring information about the Earth's surface and objects from a distance.
- This is done by sensing and recording reflected or emitted energy and processing, transmitting, and displaying that information.
- Different sensors are used to sense the radiation which reflects off the Earth's surface.
- The distance between the sensor and the target is important.
- The amount of information collected over the Earth's surface is important.

Types of Remote Sensing

- Active Remote Sensing - sensor system sends energy reflected or emitted by a target. (Radar, Synthetic Aperture Radar, Laser Light Detection and Ranging)
- Passive Remote Sensing - sensor system measures energy reflected or emitted by a target. (Thermal, Hyperspectral, Multispectral, Visible Light, Infrared, Microwave)

Remote Sensing Applications
Remote sensing data is used in a wide range of applications, including monitoring of natural resources, urban planning, and disaster response.

VARIANTS:-
PSLV-CG: THE STANDARD VERSION OF PSLV. LAUNCH CAPABILITY IS 1678KG TO 622 INTO SUN SYNCHRONOUS ORBIT.
PSLV-CA: THIS MODEL PREMIERED ON 23 APRIL 2007, LAUNCH CAPABILITY IS 1106KG TO 622KM INTO SUN SYNCHRONOUS ORBIT.
PSLV-XL: THE UPGRADED VERSION IT IS OF PSLV. LAUNCH CAPABILITY IS 1800KG INTO SUN SYNCHRONOUS ORBIT.

LAUNCH HISTORY:-

VARIANT	LAUNCHES	SUCCESSES	FAILURE	PARTIAL FAILURES	FIRST FLIGHT
PSLV-CG	12	10	0	1	20 SEP. 1993
PSLV-CA	18	12	0	0	23 APRIL 2007
PSLV-XL	20	19	1	0	23 OCT. 2008
Total till Sep. 2018	44	41	2	1	

CHANDRAYAAN-1
Mission type- lunar orbit
Mission duration- 10 months 6 days
Launch date- 22 October 2008
End of mission- 28 August 2009
OBJECTIVES:
➤ To develop launch and orbit spacecraft
➤ Around the moon using Indian made launch vehicle
➤ To conduct scientific experiments.
➤ To test the impact of sub-satellite on the surface of the moon as a forerunner for future soft landing missions.

MARS ORBIT MISSION
Name - Mangalyaan
Mission type - mars orbiter
Mission duration - 3 years 11 months 26 days
Launch date - 5 November 2013
OBJECTIVES:
➤ To explore mars' surface features, Morphology, mineralogy and Martian atmosphere using indigenous scientific instruments.
➤ To develop the technologies required for interplanetary missions.

SRE (SPACE CAPSULE RECOVERY EXPERIMENT)
Mission Type- Technology
Mission Duration- 12 Days
Launch Date- 10 January 2007
End Of Mission- 22 January 2007
OBJECTIVES:
➤ To demonstrate the capability of recovering a satellite capsule.

ASTROSAT
Duration- 5 Years (Planned)
Launch Date- 5 November 2013
OBJECTIVES:
➤ Use in the field of astrophysics, solar system.

NAVIC-THE INDIAN REGIONAL NAVIGATION SATELLITE SYSTEM (IRNSS)
Mission Type- Military, Commercial
First Launch- 1 July 2013
Last Launch- 12 April 2018
OBJECTIVES:

Learning Outcomes

1. The students enhanced the knowledge and skills of their oral as well as visual presentation skills.
2. Students inculcated practical skills for processing advance remote sensing datasets for various applications including natural resources management.
3. Students developed an understanding towards the new advance GIS technology.

14. National Workshop on Quantitative Techniques and Data Analysis



For Online Registration
www.sophiacollegeajmer.in

Reporting Date, Time & Venue:
15th February 2019, 9.00a.m. onwards
Sophia Girls' College, Ajmer (Autonomous)

Contact Details

Please feel free to contact the executive members of the Workshop for any queries through:

Website
www.sophiacollegeajmer.in
e-mail
geography@sophiacollegeajmer.in
Contact No. 0145-2427243

Program Coordinator

Dr. Monika Kannan
Head, Department of Geography
Sophia Girls' College, Ajmer (Autonomous)
Mobile : 9829506865
Email: kannanmonika@gmail.com

REGISTRATION FORM

Department of Geography
&
Research and Development Cell
Sophia Girls' College, Ajmer
(Autonomous)

15th February 2019

Name: Mr./Ms./Dr.

(In Capital Letters)

Designation:

Department:

Organization:

Address for Correspondence:

.....

.....

Mobile No.:

E-mail ID:

Educational Qualification:

Signature & Date:

NATIONAL WORKSHOP ON

QUANTITATIVE TECHNIQUES
AND DATA ANALYSIS

15th February 2019



Organised by

DEPARTMENT OF GEOGRAPHY
&
RESEARCH AND DEVELOPMENT CELL
SOPHIA GIRLS' COLLEGE, AJMER
(AUTONOMOUS)

Name of Department-Geography

Date of activity-15th February 2019

Level of Event- National level

Venue: Sophia Girls' College (Autonomous) Ajmer

Title of the Event- Workshop on Quantitative Techniques and Data Analysis

Number of Participants- 150

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Associate Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	929506865	Convenor
2.	Dr. Jitendra Kumar	Professor	Central University, Jaipur	8875755284	Resource Person
3.	Prof. R.N. Mishra	Professor	Bansur College, Alwar (Rajasthan)	9314503681	Resource Person
4.	Mr. Deepak Mehra	Joint Director	Directorate College Education, Jaipur	9414273972	Resource Person
5.	Mrs. Madhumita Hussain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9413695308	Acted as a member of organizing Committee
6.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Acted as a member of organizing Committee
7.	Ms. Shikha Sharma	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7737942422	Acted as a member of organizing Committee
8.	Ms. Apoorva Jain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	8005621728	Acted as a member of organizing Committee
9.	Ms. Kritika Mishra	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9990934665	Acted as a member of organizing Committee

Department of Geography organized a National Level Workshop on Quantitative Techniques and Data analysis. It consisted of four technical sessions. First two sessions were headed by Dr. Jitendra Kumar on Correlation and Regression followed by third session headed by Prof. R.N Mishra on Parametric and Non-Parametric Test. The program concluded with the valedictory session by Deepak Mehra.



Learning Outcomes

1. The students were acquainted with different data collection tools such as- Questionnaire and optionaires besides interview technique during the survey.
2. Students were apprised with research quantitative techniques of Data tabulation, compilation and analysis.
3. Students were equipped with research writing, report writing and graphical presentation techniques.

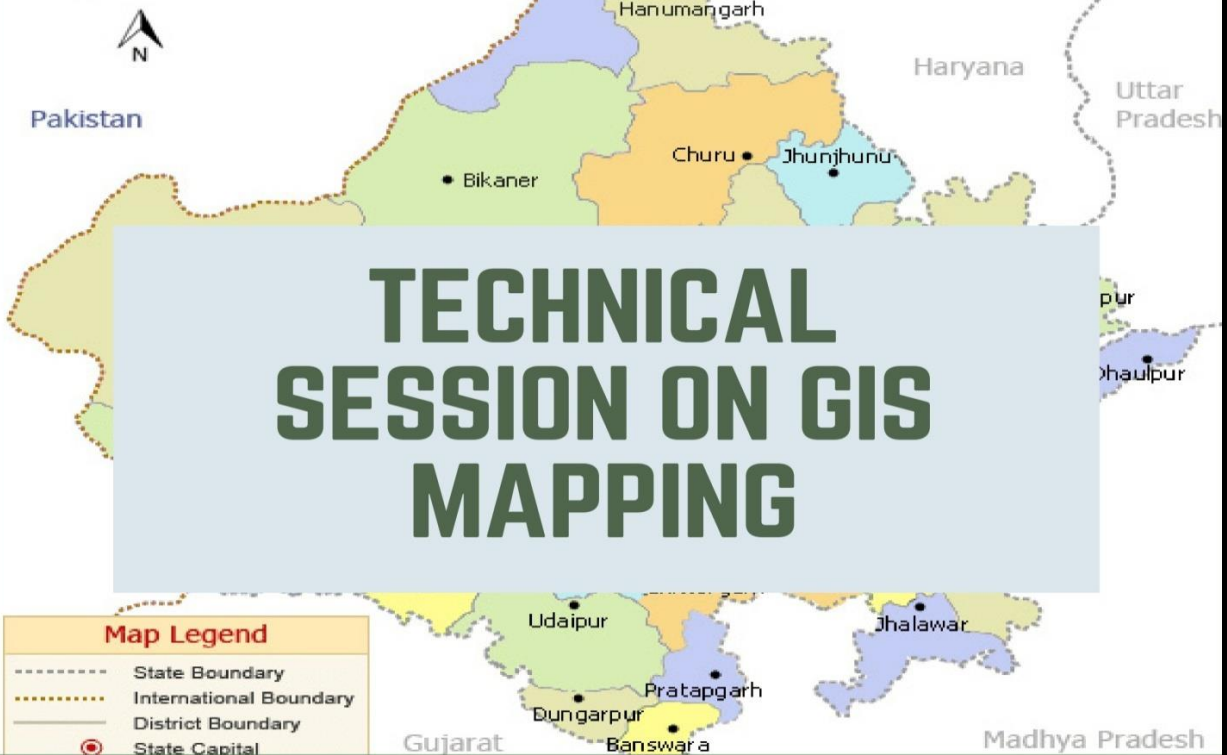
15. Technical Session on GIS Mapping



DEPARTMENT OF GEOGRAPHY
SOPHIA GIRLS' COLLEGE (AUTONOMOUS),
AJMER



Rajasthan



**TECHNICAL
SESSION ON GIS
MAPPING**

BY GIS EXPERT MR. SABIR KHAN

TIME: 11 A.M. - 1 P.M.

MARCH 16TH, 2019

Name of Department-Geography

Date of activity-16th March 2019

Level of Event- Institutional level

Venue: Sophia Girls' College (Autonomous), Ajmer

Title of the Event- Technical Session on GIS Mapping

Number of Participants-13

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Mr. Sabir Khan	GIS Expert	Department of Forest, Betul (M.P)	8103273567	Resource Person

The Department of Geography organized A Map Making session using ARC GIS software by Mr. Sabir Khan. It was indeed a helpful and pragmatic session as they learnt an art of making maps which will benefit the students of PG in dissertation and practical work .



Learning Outcomes:

1. Students developed an understanding towards the new advance GIS technology.
2. Students were apprised with research techniques of Data tabulation, compilation and analysis.
3. Students were able to create their own maps using the software.

16. Heritage Survey of Kharwa Village

**DEPARTMENT OF
GEOGRAPHY
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS), AJMER**



**HERITAGE
SURVEY**

**2ND APRIL 2019
9 AM TO 4 PM**

KHARWA VILLAGE

Name of Department-Geography

Date of activity- 2nd April, 2019

Level of Event- Institutional level

Venue: Sophia Girls' College (Autonomous) Ajmer

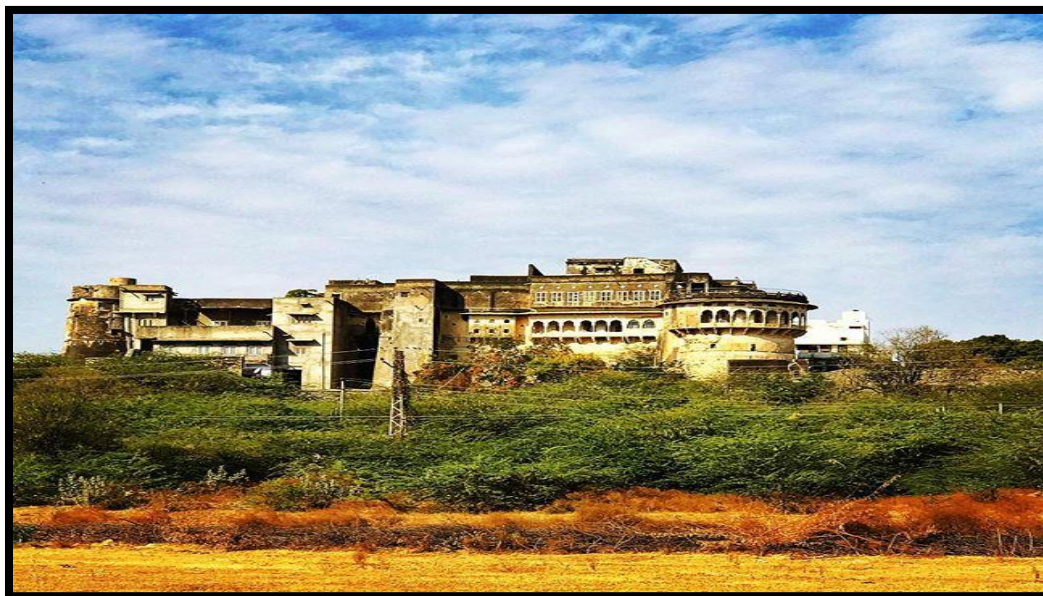
Title of the Event- Heritage Survey of Kharwa Village

Number of Participants-113

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
1.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Teacher Coordinator
2.	Ms. Madhumita Hussain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9413695308	Teacher Coordinator
3.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator
4.	Ms. Shikha Sharma	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7737942422	Teacher Coordinator
5.	Ms. Apoorva Jain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	8005621728	Teacher Coordinator

The students of UG along with the entire faculties of Geography Department visited the Kharwa Village of Beawar Block in Ajmer District. The objective was to find out the socio-economic, historical events, heritage, cultural status of people of the Kharwa fort and village with the help of survey and questionnaire.



Learning Outcomes

1. The students developed an understanding about village life and were familiarized with the rich cultural heritage of Kharwa Village
2. The students were acquainted with different data collection tools such as- Questionnaire and optionnaires besides interview technique during the survey.
3. Students were apprised with research techniques of Data tabulation, compilation and analysis.

4. Students were equipped with research writing, report writing and graphical presentation techniques.

17. Socio Economic Survey of Kharwa Village

**DEPARTMENT OF
GEOGRAPHY
SOPHIA GIRLS' COLLEGE
(AUTONOMOUS), AJMER**



**SOCIO-
ECONOMIC
SURVEY**



**KHARWA VILLAGE
2ND APRIL 2019
9A.M- 4 P.M**

Name of Department-Geography

Date of activity- 2nd April, 2019

Level of Event- Institutional level

Venue: Sophia Girls' College (Autonomous) Ajmer

Title of the Event- Socio Economic Survey of Kharwa Village

Number of Participants-132

Details of Resource Persons/Teacher Coordinators-

S. No	Name	Designation	Affiliating Institute/University	Contact Details	Contributed in the event as a-
6.	Dr. Monika Kannan	Head, Associate Professor, Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9829506865	Teacher Coordinator
7.	Ms. Madhumita Hussain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	9413695308	Teacher Coordinator
8.	Ms. Shilpi Yadav	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7820883775	Teacher Coordinator
9.	Ms. Shikha Sharma	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	7737942422	Teacher Coordinator
10.	Ms. Apoorva Jain	Assistant Professor Department of Geography	Sophia Girls' College (Autonomous), Ajmer, Rajasthan	8005621728	Teacher Coordinator

The students of UG along with the entire faculties of Geography Department visited the Kharwa Village of Beawar Block in Ajmer District. The objective was to find out the socio-economic status of people of the village with the help of an intensive micro-level filed survey using interview and questionnaire technique.



Learning Outcomes

1. The students developed an understanding about village life and were familiarized with the rich cultural heritage of rural India.
2. The students were acquainted with different data collection tools such as- Questionnaire and optionaires besides interview technique during the survey.
3. Students were apprised with research techniques of Data tabulation, compilation and analysis.
4. Students were equipped with research writing, report writing and graphical presentation techniques.