

**KTSPMS**

# **HUATMA RAJGURU MAHAVIDYALAYA**

Rajgurunagar, Tal – Khed, Dist – Pune 410505

**Name of Department – Geography**

**Name of Activity – Short Term Course**

## **Report - Land Record and Plane Table Surveying**

**Duration of Course Date: 10/04/2023 to 17/04/2023**

### **Course Overview**

The short-term course on "Land Record and Plane Table Surveying" conducted at the Geography Department of Huatma Rajguru Mahavidyalaya, Rajgurunagar, proved to be a highly educative and practical training program for participants interested in land surveying and record management.

### **Objectives**

The course was designed with the following key objectives:

1. To impart a comprehensive understanding of land records and their significance in land management and administration.
2. To provide practical knowledge of surveying techniques and the use of surveying tools and instruments.
3. To familiarize participants with the legal framework surrounding land ownership and property transactions.
4. To equip participants with the skills necessary to conduct plane table surveys effectively.
5. To introduce participants to modern technologies like Geographic Information Systems (GIS) in land surveying and record management.
6. Expert Guidance and Training

Head of Department: Prof. Dr. D. D. Muluk, an esteemed expert in geography, provided valuable guidance throughout the course, ensuring a structured and enriching learning experience.

### **Expert Trainers:**

Prof. M. L. Muluk, a seasoned educator with extensive knowledge in surveying techniques, shared in-depth insights and practical expertise.

Mr. Nilesh Ghewade, an experienced surveyor, brought invaluable real-world experience to the training, enhancing participants' practical skills.

#### Course Content

**The course curriculum encompassed a wide range of topics, including:**

Introduction to Land Records and their Importance

Types of Land Records and Surveying Principles

Legal Aspects of Land Ownership, Titles, and Transactions

Plane Table Surveying: Setup, Orientation, and Techniques

Digital Land Records and Integration with GIS

Practical Application through Field Exercises

Case Studies and Real-world Examples

#### Participant Feedback

Participants, comprising students and professionals, expressed great satisfaction with the course content and the expertise of the trainers. They highlighted the practicality of the training, particularly the hands-on experience gained through field exercises.

The "Land Record and Plane Table Surveying" course conducted at Huatma Rajguru Mahavidyalaya, Rajgurunagar, proved to be a resounding success. The expert guidance of Prof. Dr. D. D. Muluk, coupled with the practical expertise provided by Prof. M. L. Muluk and Mr. Nilesh Ghewade, ensured that participants gained valuable knowledge and skills in land surveying and record management. The course not only met its objectives but also exceeded the expectations of participants, leaving them well-prepared for future endeavors in this field.

#### Certification and Recognition

Upon successful completion of the course, participants received certifications attesting to their proficiency in land record management and plane table surveying, which is expected to be recognized in relevant industries and organizations. This detailed report summarizes the successful execution of the short-term course on "Land Record and Plane Table Surveying" at Huatma Rajguru Mahavidyalaya, Rajgurunagar.



Head  
Department of Geography  
H. R. Mahavidyalaya  
Rajgurunagar



Dr. Shirish S. Pingale  
Principal  
Huatma Rajguru Mahavidyalaya  
Rajgurunagar, Tal. Khed, Dist. Pune.

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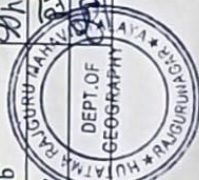
HUTATMA RAJGURU MAHAVIDYALAYA, RAJGURUNAGAR  
DEPARTMENT OF GEOGRAPHY

SYBA GEOGRAPHY SHORT TERM COURSE IN LAND RECORD AND SURVEYING  
STUDENT PRESENTY RECORD 2022-2023

Sr. No.	Roll No.	Name of Student	10.04.2023	11.04.2023	12.04.2023	13.04.2023	14.04.2023	15.04.2023	16.04.2023
1	140	Bahirat Tejas Ananda	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
2	192	Barne Abhiraj Arun	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
3	39	Bhagwat Neha Anand	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
4	187	Bhambure Ganesh Satyawar	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
5	40	Bharmal Mayuri Dnyaneshwari	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
6	43	Chopde Vrushali Pramod	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
7	45	Dekhane Neha Kalpesh	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
8	143	Dhadwad Prem Bharat	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
9	159	Dhangar Sonali Somnath	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
10	47	Gaikawad Aniket Sampat	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
11	50	Gawade Dnyaneshwar Dadabhau	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
12	51	Gawade Monika Gulab	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
13	144	Gode Sameer Sakharan	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
14	206	Gogawale Neha Dipak	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
15	54	Gore Mansi Vittal	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
16	55	Gosavi Sakshi Ganpat	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
17	56	Jare Aniket Maruti	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
18	154	Kambale Pragati Shivaji	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
19	60	Karle Samidha Ramesh	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
20	166	Kashid Payal Pravin	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>
21	123	Khande Saurabh Dnyaneshwar	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>	<del>Patel</del>



23	63	Kotwal Divya Maruti	Actual	Actual	Actual	Actual	Actual	Actual	Actual
24	27	Lagade Kajal Ashok	Actual	Actual	Actual	Actual	Actual	Actual	Actual
25	66	Mode Shradha Prakash	S.P. Mode	S.P. Mode	S.P. Mode	S.P. Mode	S.P. Mode	S.P. Mode	S.P. Mode
26	106	Muluk Shradhadha Sunil	Actual	Actual	Actual	Actual	Actual	Actual	Actual
27	107	Musale Chhaku Bajirao	C.B. Musale	C.B. Musale	C.B. Musale	C.B. Musale	C.B. Musale	C.B. Musale	C.B. Musale
28	73	Pardhi Sagar Bhaga	Actual	Actual	Actual	Actual	Actual	Actual	Actual
29	75	Pawale Arti Khandu	A.K. Pawale	A.K. Pawale	A.K. Pawale	A.K. Pawale	A.K. Pawale	A.K. Pawale	A.K. Pawale
30	76	Pawale Tanuja Santosh	Actual	Actual	Actual	Actual	Actual	Actual	Actual
31	147	Pawale Tejas Yogiraj	Actual	Actual	Actual	Actual	Actual	Actual	Actual
32	148	Pawale Viththal Shashikant	Actual	Actual	Actual	Actual	Actual	Actual	Actual
33	110	Phalke Akshada Kailas	A.K. Phalke	A.K. Phalke	A.K. Phalke	A.K. Phalke	A.K. Phalke	A.K. Phalke	A.K. Phalke
34	167	Rakshie Hindavi Santosh	Actual	Actual	Actual	Actual	Actual	Actual	Actual
35	79	Ranpise Shubham Shantaram	Ranpise	Ranpise	Ranpise	Ranpise	Ranpise	Ranpise	Ranpise
36	85	Shirke Rajshri Popat	AA	AA	AA	AA	AA	AA	AA
37	189	Sukale Rahul Ananda	Actual	Actual	Actual	Actual	Actual	Actual	Actual
38	24	Takalkar Anuja Uttam	Actual	Actual	Actual	Actual	Actual	Actual	Actual
39	26	Takalkar Mayuri Sunil	Actual	Actual	Actual	Actual	Actual	Actual	Actual
40	86	Takalkar Siddhi Shantaram	Actual	Actual	Actual	Actual	Actual	Actual	Actual
41	27	Takalkar Vidya Arjun	Actual	Actual	Actual	Actual	Actual	Actual	Actual
42	136	Talape Kailas Shankar	Actual	Actual	Actual	Actual	Actual	Actual	Actual
43	30	Talape Mohini Kundlik	Actual	Actual	Actual	Actual	Actual	Actual	Actual
44	137	Thorat Neha Balasaheb	Actual	Actual	Actual	Actual	Actual	Actual	Actual
45	138	Thorat Sanket Balasaheb	Actual	Actual	Actual	Actual	Actual	Actual	Actual
46	115	Virkar Punam Dattatray	Actual	Actual	Actual	Actual	Actual	Actual	Actual
47	219	Dhavit Yogita Sanjay	Actual	Actual	Actual	Actual	Actual	Actual	Actual



हुआत्मा राजगुरु महाविद्यालय  
राजगुरुनगर, (वेड) जि. पुणे

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**HUATMA RAJGURU MAHAVIDYALAYA**

Rajgurunagar, Tal – Khed, Dist – Pune 410505

**Name of Department – Geography**

**Name of Activity – Short Term Course**

**Syllabus Land Record and Plane Table Surveying**

**Course Title: Land Record and Plane Table Surveying**

**Course Description:**

This course provides an in-depth understanding of land records management and the principles and techniques of plane table surveying. Students will learn to perform land surveys using traditional methods and modern technology, ensuring accurate land documentation and mapping.

**Course Objectives:**

1. Understanding Land Records: To familiarize participants with the various types of land records, their significance, and their role in land management and administration.
2. Surveying Fundamentals: To provide a foundational understanding of surveying principles, techniques, and the use of surveying tools and instruments.
3. Legal Aspects: To acquaint participants with the legal framework surrounding land ownership, tenure systems, property transactions, and land acquisition laws.
4. Plane Table Surveying Techniques: To introduce participants to the concept of plane table surveying, including its setup, orientation, and basic surveying procedures.
5. Practical Application: To allow participants to apply their knowledge through field exercises, including conducting a plane table survey and utilizing GIS tools for data management.

**Duration: Seven Days**

**Day 1: Introduction to Land Records and Surveying Basics**

1. Overview of Land Records and their Importance
2. Types of Land Records
3. Basics of Surveying: Principles and Techniques
4. Use of Surveying Tools and Instruments

**Day 2: Legal Aspects of Land Records**

1. Land Ownership and Tenure Systems
2. Land Titles, Deeds, and Property Transactions
3. Land Acquisition Laws and Regulations



**Day 3: Plane Table Surveying Techniques**

1. Introduction to Plane Table Surveying
2. Setting Up and Orienting a Plane Table
3. Basic Surveying with Plane Table

**Day 4: Field Exercise - Plane Table Surveying**

1. Conducting a Plane Table Survey in the Field
2. Data Collection and Recording
3. Plotting the Survey Data on a Plane Table Sheet

**Day 5: Digital Land Records and GIS Integration**

1. Introduction to Digital Land Records
2. Geographic Information Systems (GIS) in Land Surveying
3. Data Management and Analysis using GIS

**Day 6: Case Studies and Practical Applications**

1. Real-world Examples of Land Record Management
2. Application of Plane Table Surveying in Land Development Projects

**Day 7: Field Visit and Assessment**

1. Visit to a Local Land Surveying Project Site
2. Assessment and Evaluation of Practical Skills
3. Certification and Conclusion

**Course Outcomes:**

1. Comprehensive Understanding of Land Records: Participants will acquire in-depth knowledge of various types of land records, their importance, and their role in land administration.
2. Proficiency in Surveying Techniques: Participants will be proficient in basic surveying techniques and will be able to effectively use surveying tools and instruments.
3. Legal Awareness: Participants will have a solid understanding of the legal aspects of land ownership, property transactions, and land acquisition laws.
4. Competence in Plane Table Surveying: Participants will be able to set up and orient a plane table, conduct basic plane table surveys, and accurately record and plot survey data.
5. Practical Application Skills: Participants will have hands-on experience in conducting surveys, collecting data, and utilizing GIS tools for data management and analysis.

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**Name of Department – Geography**

**Name of Activity – Short Term Course**

**Land Record and Plane Table Surveying**

**Scheduled and Plan of Short Term Course**

**Day 1: Introduction to Land Records and Surveying Basics**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Overview of Land Records and Importance
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Types of Land Records, Surveying Principles
4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Basics of Surveying, Tool Familiarization

**Day 2: Legal Aspects of Land Records**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Land Ownership and Tenure Systems
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Land Titles, Deeds, Property Transactions
4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Land Acquisition Laws and Regulations

**Day 3: Plane Table Surveying Techniques**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Introduction to Plane Table Surveying
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Setting Up and Orienting a Plane Table
4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Basic Surveying with Plane Table

**Day 4: Field Exercise - Plane Table Surveying**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Field Exercise Preparation and Safety Briefing
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Conducting a Plane Table Survey in the Field

4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Data Collection and Recording

**Day 5: Digital Land Records and GIS Integration**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Introduction to Digital Land Records
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Geographic Information Systems (GIS) in Land Surveying
4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Data Management and Analysis using GIS

**Day 6: Case Studies and Practical Applications**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Real-world Examples of Land Record Management
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Application of Plane Table Surveying
4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Q&A, Group Discussion

**Day 7: Field Visit and Assessment**

Duration: 9:00 AM - 2:00 PM

1. 9:00 AM - 10:30 AM: Field Visit to Local Surveying Project Site
2. 10:30 AM - 10:45 AM: Break
3. 10:45 AM - 12:15 PM: Practical Skills Assessment
4. 12:15 PM - 1:00 PM: Lunch Break
5. 1:00 PM - 2:00 PM: Certification and Conclusion Ceremony
- 6.



Head  
Department of Geography  
H. R. Mahavidyalaya  
Rajgurunagar



Dr. Shirish S. Pingale  
Principal  
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Prof. M.L.Muluk in teaching to students.



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