



Short term course

Department of Geography

Name of the course: “SOIL TESTING AND ANALYSIS”

2025-2026

REPORT

Department of Geography Conducted Short Term Course for the year 2025-2026 on “**Soil Testing and Analysis**” In this course 11 students were admitted for this year. The course was conducted with the aims to make student skills in soil testing and analysis. Get knowledge in testing soil and lab maintenance. This course was conducted as per the timetable. The examination was conducted where 07 students were present. The certificates were distributed to the successful students.


Head,
Department of Geography
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar (Burli)




Principal,
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli

Education Through Self-help is our Motto.” – Karmaveer

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Tal: Palus, Dist: Sangli, Pin: 416 308

SOIL TESTING & ANALYSIS

Short Term Course

CERTIFICATE

This is to certify that Shri/ Smt. **Chavan Nakushi Prakash** of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Participated One Month Short Term Course entitled “**SOIL TESTING AND ANALYSIS**” organized by Department of Geography, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) from 2nd February 2026 to 5th March 2026.


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Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Department of Geography

“SOIL TESTING AND ANALYSIS”

TIME-TABLE

P.N. / Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10.40 to 11.40	Mr. Gavari. D.P. (Pract)	Mr. Gavari. D.P. (Pract)	Mr. Gavari. D.P. (Pract)	Mr. Gavari. D.P. (Pract)	Miss. N.V.Zambe. (Pract)	Miss. N.V.Zambe. (Pract)
11.40 to 12.40	Miss. N.V.Zambe. (Theory)	Miss.N.V.Zambe. (Theory)	Mrs. Madavi.A.B. (Pract)	Mrs. Madavi.A.B. (Pract)	Mrs. Madavi.A.B. (Pract)	Mrs. Madavi.A.B. (Pract)
12.40 to 1.40	Mr. Maske.S.A. (Theory)	Mr. Maske. S.A. (Theory)	Mr. Maske.S.A. (Theory)	Mr.Maske.S.A. (Theory)	Miss. N.V.Zambe. (Pract)	Miss. N.V.Zambe. (Pract)


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Department of Geography

2025-2026

“SOIL TESTING AND ANALYSIS”

STUDENTS ENROLLMENT

Sr. No.	Roll No.	Name Of The Student
1	1251	Bachche Patil Parth Dipak
2	1266	Bhosale Uttam Rajaram
3	1267	Budhwale Akshay Sambhaji
4	1257	Chavan Nakushi Prakash
5	1252	Chavan Ritesh Anandrao
6	1258	Gaikwad Vinod Uttam
7	1253	Jadhav Omkar Hanmant
8	1277	Kadam Mayuri Shankar
9	1254	Meshram Shubham Pramod
10	1255	Phalake Pruthviraj Rajesh
11	1256	Phalake Uddhav Mahesh


Head,
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**Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar
(Burli)**

Department of Geography

2025-2026

“SOIL TESTING AND ANALYSIS”

Date : 25/01/2026

NOTICE

All the students are informed that “SOIL TESTING AND ANALYSIS” short term course of the Geography Department are hereby informed that course is starting from 01 February 2026 to 5 March 2026; Kindly notice that attendance is compulsory for course.


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Dr. Patangrao Kadam Mahavidyalaya,

Ramanandnagar (Burli) Tal. Palus Dist. Sangli 416 308 (Maharashtra)

Affiliated Shivaji University, Kolhapur

Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Litt)

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Principal Prof. Dr. U. V. Patil

M.A., SET, Ph.D.



Short Term Course

2025-2026

Department of Geography

Name of the Course: “SOIL TESTING AND ANALYSIS”

Duration 2 Months (90Hrs) Total Credits 4

Short Term Course Co-ordinator : Mrs. Madavi. A. B.

Email : asha.madavi@gmail.com

Mobile No. : 8975134076

Course Fee : free

Total Students : 10

Board of Studies:

Sr. No.	Name	Designation	Mobile No.	Email
1	Mrs A. B. Madavi	Head of Department	8975134076	asha.madavi@gmail.com
2	Mrs A. B. Madavi	Course Co-ordinator	8975134076	asha.madavi@gmail.com
3	Mr. D. P. Gawari	Expert from respective Field	9960323569	gawaridhanesh@gmail.com


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Department of Geography

“SOIL TESTING AND ANALYSIS”

Short Term Course: 2025-2026

COURSE OUTCOME

1. To understand physical chemical and biological properties of soil and water.
 2. To identify and analyze key water quality parameters including pH, turbidity and nutrient level.
 3. To make soil and water analysis reports.
 4. To classify the methods and techniques of soil and water analysis.
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Learning Outcomes:

1. To understand to definition and concepts of soil sciences
2. Work with spatial data (vector and raster) in QGIS
3. To Georeference maps and align them with real world coordinates
4. Students get skills Data handling and Map skills
5. Students can map water sources and irrigation areas, helping farmers use water efficiently.

References:

1. Principles of Geographic Information Systems: P. A. Burrough & R. A. McDonnell
2. Remote Sensing & GIS: Basudeb Bhatta
3. Geoinformatics: Fundamental & Application: A.M. Chandra & S. K. Ghosh.
4. Learning GIS: Anita Graser
5. QGIS Tutorials and Tips: QGIS Official Website

Examination Pattern:

Theory Examination	50 Marks
Practical	30 Marks
Field Visit	20 Marks


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Theory Syllabus (30Hrs. = 2 credits)

Module	Theory Hrs.	Total Hrs.
Module I. Introduction to soil science • Definition of soil • Formation of soil • Soil Properties • Soil Profile	15	15
Module II. Practical Exercises • Importance of Soil Testing and Analysis • Study of Instrument • Soil Test Report and Fertilizer Recommendation • Study of Laboratory setup	15	15


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List of 15 Practical's

Module	Practical Hrs.	Total Hrs.
Module 1: Field Visit and Report Writing • Visit to Soil Testing Laboratory • Report Writing • Visit to farmers field for collection of soil samples • Identification of nutrient deficiency symptoms in crop	16	16
Module 1I: Soil Testing and Analysis • Preparation of chemical required for Soils Testing • Processing of soils sampling for analysis. • Determination of PH of soil sample using PH meter. • Determination of available phosphorus from soil sample • Determination of available potassium from soils samples	28	28
Module III: Preparation of Soil test Summaries • Preparation of soil test report • Interpretation of result • Fertilizer recommendation.	12	12
Module IV: Preparation of Soil Health Card	04	04
Total: 90Hrs	Theory 30 Hrs	Practical 60 Hrs


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