



Rayat Shikshan Sanstha's,

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli).

Short Term Course

2023-2024


Department of Geography


Name of Course: "Soil Testing and Analysis"

REPORT

Department of Geography conducted Short Term Course, 'Soil Testing & Analysis' for the year 2023 - 2024. In this course 10 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 successfully in which 95% lectures were conducted as per the timetable. The examination was conducted where 8 students were present. The certificates were distributed to the successful students.


Co-ordinator


Head,
Department of Geography
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli),
Tal. Palus, Dist. Sangli.


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 AND ANALYSIS

Short Term Course


CERTIFICATE

This is to certify that Shri/ Smt. -----of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Participated Short Term Course entitled "Soil Testing and Analysis" organized by Department of Geography, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) from Month of January 2024 to February 2024.


Coordinator

Chief Coordinator


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



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

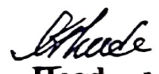


Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, R. Nagar (Burlil)
Short Term Courses
"Soil Testing & Analysis"
2023-2024

MARK-SHEET

Sr. No	Roll No.	Student Name	Theory (50)	Practical (30)	Field Visit (20)	Total (Marks) (100)	Result	Remark
1	101	Ghadage Shailesh Appaso	Absent	Absent	Absent	Absent	Fail	Fail
2	102	Kambale Maruti Kisan	35	22	15	70	Pass	Dist.
3	103	Kore Amar Appaso	28	18	15	61	Pass	Ist
4	104	Kshirsagar Nilkanteshwar Vasant	28	18	15	61	Pass	Ist
5	105	Mali Kiran Keru	30	15	15	60	Pass	Ist
6	106	Pathan Saifulla Amajadkhan	28	18	15	61	Pass	Ist
7	107	Patil Rahul Babaso	30	15	15	60	Pass	Ist
8	108	Patil Snehal Suhas	35	22	15	70	Pass	Dist.
9	109	Mane Urmila Maruti	35	22	15	70	Pass	Dist.
10	110	Shinde Yashomati Dileep	Absent	Absent	Absent	Absent	Fail	Fail


Co-ordinator


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

Seat No

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, R. Nagar (Burli)

Short Term Courses Examination, March -2023

Paper Name:- Soil Testing and Analysis (Practical)

Sub-Code:- STC- 2

Date: - 12/3/2024

Time: - 10.30 am to 12.30 pm

Total Marks: - 30

Instructions: 1) Attempt all questions .

Que. 1. Preparation of Chemical required for soil testing.

Que.2. Processing of Soil Sampling for analysis.

Que.3. Determination of PH of soil sample using PH meter.



Seat No

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, R. Nagar (Burli)

Short Term Courses Examination, March -2024

Paper Name:- Soil Testing and Analysis

Sub-Code:- STC- 2

Date: - 11/3/2024

Time: - 10.30 am to 12.30 pm

Total Marks: - 50

- Instructions:
- 1) Attempt all questions serially.
 - 2) Figure to the right in brackets indicate full marks
 - 3) All questions are compulsory.

Que. 1. Choose the correct option.

(20)

1. Soil is the ----- resource. (renewable/Non- renewable)
2. pH value is -----neutral (0/7)
3. Soil Profile is divided into -----part. (4/3)
4. -----is the agent of soil erosion. (Rain/Chemical)
5. The Central Soil Salinity Research Institute is Situated------(Hariyana/Nagpur)
6. Physical properties of soil is related------(Clay/pH)
7. Nutrition deficiency identify by------(soil testing/ soil erosion)
8. Soil Sampling process is------(collect soil/ collect the particular soil)
9. Soil sample using -----meter.(Electrical Conductivity/Photo Flame)
10. Soil test report after -----Recommendation by technician.(Fertilizer/Humus)

Que. 2. Short Notes any Two.

(20)

1. Soil Profile
2. Physical Property
3. Report

Que. 3. Long Answer any one

(20)

1. Write in brief on Soil Formation.
2. Write on Importance of Soil Testing.



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Dr. Patangrao Kadam Mahavidyalaya, R. Nagar (Burli)

Short Term Courses
"Soil Testing and Analysis"

NOTICE

All the Students of "Soil Testing and Analysis" short term course of the Geography Department are hereby informed that of examination (Theory and Practical) will be conducted in month of 11 & 12 March 2024. The Dates and time table are as fallows.

Examination	Date	Time
Theory	11.03.2024	10.30. a.m. to 12.30 p.m.
Practical	12.03.2024	10.30 a.m. to 12.30 p.m.


Course Co-ordinator



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Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar
(Burli)


Department of Geography
Short Term Courses
2023 – 2024

List of Paper Setter, Examiners & Moderators

Sr.No	Name of Paper Setter, Examiners & Moderators	Name of College	Contact Number
1.	Chairman: Dr. Khade A. S.	Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)	7720889888
2.	Mrs. Madavi A. B.	Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)	8975134076
3.	Mr. Gawari D. P.	Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)	9960343569
4.	Mr. Maske S. A.	Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)	7588395078


Co-Ordinator


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Department of Geography
Dr. Patangrao Kadam Mahavidyalaya,
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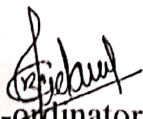
Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Geography


2023-2024

Short Term Course
Soil Testing and Analysis

ENROLLMENT

Sr.No.	Student Name
1.	Ghadage Shailesh Appaso
2.	Kambale Maruti Kisan
3.	Kore Amar Appaso
4.	Kshirsagar Nilkanteshwar Vasant
5.	Mali Kiran Keru
6.	Pathan Saifulla Amajadkhan
7.	Patil Rahul Babaso
8.	Patil Snehal Suhas
9.	Mane Urmila Maruti
10.	Shinde Yashomati Dilcep


Co-ordinator

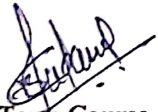

Head,
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Ramanandnagar (Burli)


Rayat Shikshan Sansthas
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Short Term Course Department of Geography


TIME TABLE: 2023 -2024

Soil Testing and Analysis

P.N. / Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
10:30 to 11:30	Mr. Gawari D. P.	--	Mr. Gawari D. P.	--	--	Mr. Maske S. A.
11:30 to 12:30	--	Ms. Madavi A. B.	Mr. Gawari D. P.	--	--	Ms. Madavi A. B.
12:00 to 12:50	Ms. Madavi A. B.	Mr. Maske S. A.	Mr. Gawari D. P.	Mr. Gawari D. P.	Mr. Maske S. A.	Ms. Madavi A. B.


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Co-Ordinator


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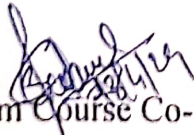
Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar
(Burli)
Karmaveer Vidyaprabodhini
Short Term Course
2023-2024
Department of Geography


Name of Course: "Soil Testing and Analysis"
(Duration 90Hours) Total Credits 4:

Short Term Course Co-ordinator :- Ms. Asha Budharam Madavi
Email :- asha.madavi@gmail.com
Mobile No. :- 8975134076
Course Fee :- 200/- per student
Total Students :- 10
MoU :- 01

Board of Studies:-

Sr. No.	Name	Designation	Mobile No	Email
1	Dr. A.S. Khade	Head of Department	7720889888	askhadell@gmail.com
2	Ms. A. B. Mamlayya	Chief Co-ordinator	7410781096	anumamlayya@gmail.com
3	Ms. A. B. Madavi	Short Term Course Co-ordinator	8975134076	asha.madavi@gmail.com
4	Mr. D. P. Gawari	Expert From Respective Field	9960343569	gawaridhanesh@ymail.com
5	Mr. S.R. Patil	Placement Officer	9860271729	karntisugar.env@gmail.com


Short Term Course Co-ordinator


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



Rayat Shikshan Sanstha, Satara
Karmaveer Vidyaprabodhini
2023-2024

Name of College :- Dr. Patangrao Kadam Mahavidyalaya, R.Nagar (Burli)
Department: Geography

Short Term Course
Name of Course: "Soil Testing and Analysis"
(Duration 90Hours)

Total Credits 4:-1 Credit = 15 Hours of Theory and one
1 Credit = 30 Hours of Practical

Objectives

- 1) To provide basic knowledge of soil testing and analysis.
- 2) To provide skills education of soil testing and analysis.
- 3) To skills in soil & water testing lab maintenance.
- 4) To develop communication and management skill.

Theory Syllabus (30Hrs. = 2 Credits)

Module	Theory Hrs.	Total Hrs.
Module 1. Introduction to Soil Science <ul style="list-style-type: none">• Definition of soil,• Formation of Soil.• Soil Properties• Soil Profile	15	15
Module 2. Soil Testing And Analysis <ul style="list-style-type: none">• Importance of Soil Testing and analysis.• Study of Instrument.• Soil Test Report and Fertilizer Recommendation.• Study of Laboratory Setup	15	15

Practical Syllabus (60Hrs.- 2 Credit)

List of 15 Practical

Module	Practical Hrs.	Total Hrs.
Module 1. Field Visit & Report Writing <ul style="list-style-type: none">• Visit to Soil Testing Laboratory• Report writing.• Visit to farmers fields for collection of soil samples.• Identification of nutrient deficiency Symptoms in Crop	16	16
Module 2. Soil Testing And Analysis <ul style="list-style-type: none">• Preparation of Chemical required for soil testing.• Processing of Soil Sampling for analysis.• Determination of PH of soil sample using PH meter.• Determination of Electrical Conductivity of soil sample using Electrical Conductivity meter.• Determination of available Nitrogen from soil sample.• Determination of available Phosphorus from soil sample.• Determination of available Potassium from soil sample.	28	28
Module 3. Preparation of soil test summaries <ul style="list-style-type: none">• Preparation of soil test report.• Interpretation of result.• Fertilizer recommendation.	12	12
Module 4. Preparation of soil Health Card	04	04
Total-90 Hours	Theory 30 Hrs.	Practical 60 Hrs.

• **Learning Outcomes:-**

1. To understand of definitions and concept of soil science
2. To understanding the application.
3. Identify the importance of soil and soil related problem.
4. Students get skills of soil sample collection, analysis and interpretation of soil sample.
5. To create report and Fertilizer recommendation to farmer.


• **References :-**


1. Soil Science - Dr. Satish Bhagwantrao Aher & Dr. Dharmendra Singh
2. Soil Testing :- K. V. S. Apparao
3. Soil Analysis :- An Interpretational Manual:- S. S. Jatav & E. Sathyanarayan
4. Laboratory Manual for Soil Testing :- Dr. D.K. Maharaj & S.K. Kataria
5. Soil Geography मृदा भूगोल-A.K. Khatib

- **Examination Pattern :-**
- | | |
|--------------------------------|------------|
| Theory Examination | : 50 Marks |
| Practical | : 30 Marks |
| Field visit / Industrial visit | :20 Marks |

Board of Studies:-Name

Sr. No.	Name	Designation	Mobile No	Email
1	Dr. A.S. Khade	Head of Department	7720889888	askhadell@gmail.com
2	Ms. A. B. Mamlayya	Chief Co-ordinator	7410781096	anumamlayya@gmail.com
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