



Rayat Shikshan Sanstha's,

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli).

Short Term Course

2022-2023

Department of Geography

Name of Course: "Soil Testing and Analysis"

REPORT

Department of Geography conducted Short Term Course, 'Soil Testing & Analysis' for the year 2022 - 2023. 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 6 students were present. The certificates were distributed to the successful students.

[Signature]
Co-ordinator



[Signature]
Head,

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

[Signature]

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 2023 to February 2023.


Coordinator



Chief Coordinator


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



I/C Principal
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, R. Nagar (Burli)
Short Term Courses
“Soil Testing & Analysis”
2022-2023

MARK-SHEET

Sr. No	Roll No.	Student Name	Theory (50)	Practical (30)	Field Visit (20)	Total (Marks (100)	Result	Remark
1	101	Dhende Sakshi Dadaso	29	20	15	64	Pass	Ist
2	102	Gurav Sanket Sunil	35	22	15	70	Pass	Dist.
3	103	Jadhav Siddharth Nandkumar	28	18	15	61	Pass	Ist
4	104	Kadam Pratiksha Ashok	Absent	Absent	Absent	Absent	Fail	Fail
5	105	Patil Ayush Ramesh	30	15	15	60	Pass	Ist
6	106	Patil Rushikesh Laxman	Absent	Absent	Absent	Absent	Fail	Fail
7	107	Patil Sangram Pralhad	35	20	15	70	Pass	Dist.
8	108	Pawar Dhanaraj Shashikant	Absent	Absent	Absent	Absent	Fail	Fail
9	109	Pawar Vishwajit Sanjay	Absent	Absent	Absent	Absent	Fail	Fail
10	110	Tatugade Prathmesh Sudam	29	16	15	60	Pass	Ist




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

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

Sub-Code:- STC- 2

Date: - ³⁰01/3/2023

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.
-

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

Sub-Code:- STC- 2

Date: - ³⁰01/3/2023

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.

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: - 31/3/2023

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.

Rayat Shikshan Sanstha's

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 30 & 31 March 2023. The Dates and time table are as fallows.

Examination	Date	Time
Theory	30.03.2023	10.30. a.m. to 12.30 p.m.
Practical	31.03.2023	10.30 a.m. to 12.30 p.m.


Course Co-ordinator




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

Rayat Shikshan Sansthas

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)


Short Term Course Department of Geography


TIME TABLE: 2022 -2023

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.


Short Term Course
Co-Ordinator


Head,
Department of Geography
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, Ramanandnagar (Burli)
Department of Geography

2022-2023

Short Term Course
Soil Testing and Analysis

ENROLLMENT

Sr.No.	Student Name
1.	Dhende Sakshi Dadaso
2.	Gurav Sanket Sunil
3.	Jadhav Siddharth Nandkumar
4.	Kadam Pratiksha Ashok
5.	Patil Ayush Ramesh
6.	Patil Rushikesh Laxman
7.	Patil Sangram Pralhad
8.	Pawar Dhanaraj Shashikant
9.	Pawar Vishwajit Sanjay
10.	Tatugade Prathmesh Sudam



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

Rayat Shikshan Sanstha, Satara

Karmaveer Vidyaprabodhini

2022-2023

Name of College :- Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (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.
<u>Module 1. Field Visit & Report Writing</u> <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
<u>Module 2. Soil Testing And Analysis</u> <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
<u>Module 3. Preparation of soil test summaries</u> <ul style="list-style-type: none">• Preparation of soil test report.• Interpretation of result.• Fertilizer recommendation.	12	12
<u>Module 4. Preparation of soil Health Card</u>	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, anyalasis and interpreatation 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. मृदा भूगोल :- A.K. Khatib

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

Board of Studies:-

Sr. No	Name	Designation	Mobile No	e-mail
1	Dr. A.S. Khade	Head of Department	7720889888	askhade11@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. N. Gawari	Placement Officer	9960343569	gawaridhanesh@ymail.com
5	Mr. S.R. Patil	Expert From Respective Field	9860271729	karntisugar.env@gmail.com

Short Term Course Co-ordinator

Ms. A. B. Madavi



Principal


Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Karmaveer Vidyaprabodhini
Short Term Course
2022-2023
Department of Geography

Name of Course: "Soil Testing and Analysis"

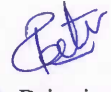
(Duration 90Hours) Total Credits 4:

Short Term Course: - Ms. Asha Budharam Madavi
Co-ordinator
Email :- asha.madavi@gmail.com
Mobile No. :- 8975134076
Course Fee: - 500/- per student
Total Students:- 10
MoU:- 01
Board of Studies:-

Sr. No	Name	Designation	Mobile No	e-mail
1	Dr. A.S. Khade	Head of Department	7720889888	askhade11@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. N. Gawari	Placement Officer	9960343569	gawaridhanesh@ymail.com
5	Mr. S.R. Patil	Expert From Respective Field	9860271729	karntisugar.env@gmail.com


Short Term Course Co-ordinator




Principal