

Janata Shikshan Sanstha's

## Kisan Veer Mahavidyalaya, Wai

Tal-Wai, Dist-Satara, Maharashtra(India)-412803

NAAC Status - Grade 'B+' CGPA (2.66)



### Report

#### Capsule Course "Soil and Soil Testing "

A series of lecture were organized by the department of chemistry for the Capsule Course Soil and Soil Testing from 18/02/2021 onward by

- Smt. Rupali Ganesh khare (Laboratory Chemist)
- Smt . Sheela Madhavarao Jadhav (Supervisor)

Of Department of soil and soil Testing Kisan Veer Satara Sahakari Skhar Karkhana,  
Kisanveernagar, Bhujinj, Tal. Wai, Dist. Satara

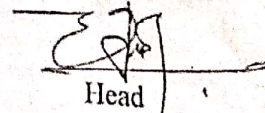
The above two technicians has delivered important lecture on soil and soil testing to the B.Sc. Part III student in classroom.

They explained firstly how to collect the soil sample from field by digging the soil from serevral area of field , collecting sample ,mix well and make four parts of soil, take some part of each and again mix well this is the soil sample. Its composition and also the testing skill of soil. The soil testing evolves the detection of element and nutrients present.in the soil they also explain what type of crop should be taken by farmers in their fields by result of soil testing.

They also assured to students that they were helping them to analyze soil samples the they can bring to the soil testing laboratory.

We are thankful to both speakers for lecture for the B.Sc III students.



  
Head

Department of Chemistry  
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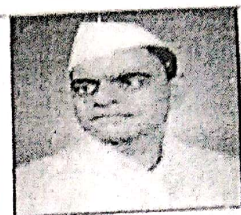


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## Capsule Course Soil and Soil Testing

Introduction since 2020

Duration-03 months

Fees- 300/-

Paper-I- Introduction to soil science.

Paper-II-Soil testing and analysis.

### OBJECTIVES

- *To know composition of soil.*
- *Understanding the soil characteristics.*
- *Anaylsis of soil composition .*
- *Awareness about agricultural land.*

MEDIUM OF COURSE: ENGLISH

SCHEME OF EXAMINATION: The examination shall be conducted at the end of each year.

The paper shall carry 40 marks.

Contact :- Dr. H. V. Jadhav

(Head Department of Chemistry and course coordinator)

Cell no:-09049271876

Email id:-[kvmchemistry@gmail.com](mailto:kvmchemistry@gmail.com)

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Wai.

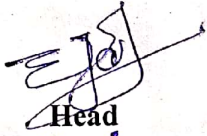
Date : 12/02/2021

**NOTICE :**

All the students of B.Sc III (Chemistry) are here by informed that department has started a Short – Term Course “ **Analysis of different soil parameters with advanced tool**” for the class. For this course lectures will be started from **18 February 2021** onwards in regular class room

All the students should be present for the lectures.



  
Head  
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Kisan Veer Mahavidyalaya, Wai

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Janata Shikshan Sanstha's  
**Kisan Veer Mahavidyalaya, Wai (Satara)**  
**Department of Chemistry**

**Short term Course "Soil and Soil Testing"**

**Syllabus from June 2020 Onwards**

**Part I: Introduction to Soil Science**

**05**

Definition of soil, types of soil, Soil as a natural body, soil components, inorganic & organic solids, basic concepts.

Properties of Soil

A) Physical properties

Soil texture & structure, properties of soil mixture, particle, density

B) Chemical properties

Chemistry of clays, Ionic exchange, Acidity, Alkanility, pH, Salinity, Reactions of liming & acidification

C) Biological properties

Soil organic matter, O:N relationship, N- Transformation, soil organisms, Sulphur transformation

**Reference Books:**

1. Soil and soil fertility: Troch F. R. & Thompson L. M.
2. Fundamentals of soil science: Foth, H.D. Wiley Books
3. Soil science and Management: Plaster Edwards J
4. Principles of Soil Chemistry: Marcel Dekker Inc.

**Part II: Soil Testing and Analysis**

**05**

Unit I Sample collection and processing

Sample collection & processing, purpose of soil testing & analysis, Method of soil sample collection, Preservation, labeling & storage of soil samples.

Unit II Study of instruments

Brief study of instruments- pH meter, conductivity meter, Spectrometer. Use of soil testing kit, Kjeldahl's Assembly for determination of nitrogen

### Reference Books:

1. Soil, Sampling, Preparation and Analysis: Marcel, Dekker
2. Soil Sampling and Methods of Analysis: Carter M. R. & E. G. Gregorich
3. Methods of Soil Analysis: Kuete A & et.all

### Part III: Practical

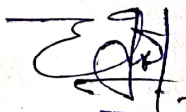
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1. Visit to soil testing laboratory
2. Preparation of various reagents, chemical required for soil testing
3. Processing of soil sampling for analysis
4. Determination of pH of soil sample using pH meter
5. Determination of available nitrogen from soil sample
6. Determination of available phosphorus from soil sample
7. Determination of potassium from soil sample
8. Determination of calcium carbonate from soil sample
9. Determination of organic carbon by wet oxygen method

### Reference Books:

1. Introduction to soil Laboratory Manual: J. J. Harsett stipes
2. Introduction to soil science laboratory manual: Palmer & troch



  
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**(Satara)**  
**Department of Chemistry**  
**Short term Course "Soil and Soil Testing"**

**B.Sc. III**

| Roll No. | Student's Name               |
|----------|------------------------------|
| 1        | JADHAV PRIYANKA DASHRATH     |
| 2        | ITHAPE PRATIKSHA SUNIL       |
| 4        | BANDAL NITA DATTATRAY        |
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| 154 | YEWALE RANI SANTOSH             |
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| 199 | DABHADE ROHAN RAMESH         |
| 200 | SHINDE VINOD POPAT           |
| 201 | DHANVADE SAGAR SURYAKANT     |
| 204 | NANAWARE PRANALI SANJAY      |
| 205 | MUNGASE NAMDEV MOHAN         |
| 206 | NITIN BHAUSAHEB NIMBALKAR    |
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| 207 | DHUMAL AJIT CHANDRAKANT      |
| 208 | BESKE RUCHITA SUNIL          |
| 209 | BHOSALE RUTUJA SHAMRAO       |
| 210 | WAGH JAGRUTI MAHENDRA        |
| 211 | KADAM HARSHADA HARISHCHANDRA |
| 212 | KUMBHAR ABHISHEK SHAMRAO     |
| 213 | OMKAR VINAYAK DERE           |
| 215 | JADHAV SUSHANT SANJAY        |
| 218 | KENJALE TEJAS ANIL           |
| 219 | PADASE PRATHAMESH RAJENDRA   |
| 221 | BAGWAN MUZAFFAR ASLAM        |



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| 222 | SHIRKE OMKAR SANJAY            |
| 224 | MANDHARE KARAN SATISH          |
| 225 | MONE SURAJ SHARAD              |
| 226 | MULLA SHAKIL SARDAR            |
| 229 | SANAS SANKET ANIL              |
| 230 | NITIN NARAYAN JAGTAP           |
| 231 | RAYATE PRATHAMESH SHIVAJI      |
| 232 | PAWAR DIPALI SATYAVAN          |
| 233 | SHINDE KAJAL RAJENDRA          |
| 234 | YADAV SANKET RAMCHANDRA        |
| 236 | ANIKSHA SATISH CHAVAN          |
| 238 | NIKAM RUSHIKESH RAVINDRA       |
| 239 | PAWAR DHANDEEP JITENDRA        |
| 240 | SARKALE PRITI SHANKAR          |
| 242 | KALE SONALI HARISH             |
| 243 | SHAIKH MUSKAN JAKIR            |
| 244 | INAMDAR ARIF JAVED             |
| 245 | YADAV PRASANNA SANJAY.         |
| 246 | JARE SHAMBHURAJ UTTAM          |
| 247 | DALVI SATVIKA KUMAR            |
| 249 | KOCHALE SIDDHESH NANDKUMAR     |
| 250 | HARSHAD LAXMAN JADHAV          |
| 251 | WARAGADE RATNARAJ MAHENDRA     |
| 252 | DERE MAYUR ANANDRAO            |
| 253 | RUSHIKESH BHALCHANDRA RANBHORE |
| 254 | BHOSALE NIKHIL DHANESH         |
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| 256 | KADAM PRATIK KAILAS            |
| 257 | PAWAR ASMITA SATISH            |
| 258 | CHAVAN PANKAJ RAJENDRA         |
| 259 | INAMDAR SHAHRUKH HAMID         |
| 260 | NAWADKAR KALPESH RAJENDRA      |
| 261 | PISAL ASHUTOSH SHRIKRUSHNA     |
| 262 | PISAL PRATIBHA ZAKAS           |
| 263 | JADHAV PRANIT MANOHAR          |
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| 271 | PISAL PRASAD JITENDRA          |
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| 274 | SHINDE SANDESH LAXMAN          |

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| 285 | YADAV NIKHIL DILIPKUMAR        |
| 286 | DHUMAL RUTIK DATTATRAY         |
| 287 | NIKAM SANGRAM BALKRISHNA       |
| 288 | LEMBHE ROHAN RUPCHAND          |
| 289 | LEMBHE JAY NITIN               |
| 290 | SHIRKE PRAFULL SURESH          |
| 291 | ONKAR ANKUSH SHINGATE          |
| 292 | ARDE MANSI DILIP               |
| 293 | JADHAV KIRAN DNYANESHWAR       |
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| 313 | NAWADKAR SAYALI HINDURAO       |

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**Short term Course "Soil and Soil Testing"**

B.Sc. III

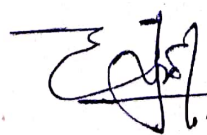
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| 148 | DHAGE ANKITA VASANT             | 40 |
| 149 | PATEL ANJUM MUKTAR              | 40 |
| 150 | NEVASE PRANALI VILAS            | 36 |
| 151 | JAGTAP SHIVANI DATTATRAY        | 34 |
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| 154 | YEWALE RANI SANTOSH             | 32 |
| 155 | TARADE PRANALI PANDURANG        | 30 |

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| 200 | SHINDE VINOD POPAT           | 32 |
| 201 | DHANVADE SAGAR SURYAKANT     | 30 |
| 204 | NANAWARE PRANALI SANJAY      | 36 |
| 205 | MUNGASE NAMDEV MOHAN         | 34 |
| 206 | NITIN BHAUSAHEB NIMBALKAR    | 34 |
| 206 | NITIN BHAUSAHEB NIMBALKAR    | 30 |
| 207 | DHUMAL AJIT CHANDRAKANT      | 28 |
| 208 | BESKE RUCHITA SUNIL          | 34 |
| 209 | BHOSALE RUTUJA SHAMRAO       | 38 |
| 210 | WAGH JAGRUTI MAHENDRA        | 28 |
| 211 | KADAM HARSHADA HARISHCHANDRA | 28 |
| 212 | KUMBHAR ABHISHEK SHAMRAO     | 30 |
| 213 | OMKAR VINAYAK DERE           | 36 |
| 215 | JADHAV SUSHANT SANJAY        | 34 |
| 218 | KENJALE TEJAS ANIL           | 34 |
| 219 | PADASE PRATHAMESH RAJENDRA   | 36 |
| 221 | BAGWAN MUZAFFAR ASLAM        | 34 |

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|-----|--------------------------------|----|
| 222 | SHIRKE OMKAR SANJAY            | 38 |
| 224 | MANDHARE KARAN SATISH          | 34 |
| 225 | MONE SURAJ SHARAD              | 32 |
| 226 | MULLA SHAKIL SARDAR            | 36 |
| 229 | SANAS SANKET ANIL              | 28 |
| 230 | NITIN NARAYAN JAGTAP           | 32 |
| 231 | RAYATE PRATHAMESH SHIVAJI      | 40 |
| 232 | PAWAR DIPALI SATYAVAN          | 28 |
| 233 | SHINDE KAJAL RAJENDRA          | 34 |
| 234 | YADAV SANKET RAMCHANDRA        | 36 |
| 236 | ANIKSHA SATISH CHAVAN          | 40 |
| 238 | NIKAM RUSHIKESH RAVINDRA       | 28 |
| 239 | PAWAR DHANDEEP JITENDRA        | 32 |
| 240 | SARKALE PRITI SHANKAR          | 34 |
| 242 | KALE SONALI HARISH             | 36 |
| 243 | SHAIKH MUSKAN JAKIR            | 38 |
| 244 | INAMDAR ARIF JAVED             | 28 |
| 245 | YADAV PRASANNA SANJAY.         | 32 |
| 246 | JARE SHAMBHURAJ UTTAM          | 34 |
| 247 | DALVI SATVIKA KUMAR            | 36 |
| 249 | KOCHALE SIDDHESH NANDKUMAR     | 38 |
| 250 | HARSHAD LAXMAN JADHAV          | 28 |
| 251 | WARAGADE RATNARAJ MAHENDRA     | 40 |
| 252 | DERE MAYUR ANANDRAO            | 34 |
| 253 | RUSHIKESH BHALCHANDRA RANBHORE | 28 |
| 254 | BHOSALE NIKHIL DHANESH         | 36 |
| 255 | KHARSHIKAR TEJAS SHANKAR       | 40 |
| 256 | KADAM PRATIK KAILAS            | 32 |
| 257 | PAWAR ASMITA SATISH            | 28 |
| 258 | CHAVAN PANKAJ RAJENDRA         | 32 |
| 259 | INAMDAR SHAHRUKH HAMID         | 40 |
| 260 | NAWADKAR KALPESH RAJENDRA      | 36 |
| 261 | PISAL ASHUTOSH SHRIKRUSHNA     | 34 |
| 262 | PISAL PRATIBHA ZAKAS           | 32 |
| 263 | JADHAV PRANIT MANOHAR          | 36 |
| 264 | YOGITA SAKHARAM YADAV          | 40 |
| 265 | THORAVE NAMRATA SHAMRAO        | 28 |
| 266 | JAGTAP SHIVRAJ KISHOR          | 32 |
| 267 | NANA WARE ABHISHEK RAMCHANDRA  | 36 |
| 269 | BOBADE SURAJ SHANKAR           | 32 |
| 270 | PISAL AKASH PRAKASH            | 36 |
| 271 | PISAL PRASAD JITENDRA          | 36 |
| 272 | PISAL OMKAR VITTHAL            | 36 |
| 273 | BHOSALE ROSHAN SANDIP          | 40 |
| 274 | SHINDE SANDESH LAXMAN          | 32 |

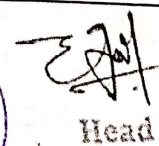
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| 276 | PISAL PRATIK SURYAKANT         | 32 |
| 277 | SHINDE MAYUR SANJAY            | 28 |
| 278 | SURVE SHUBHAM RAJENDRA         | 32 |
| 279 | MANDHARE DNYANESHWAR BALASAHEB | 32 |
| 280 | SHINDE PRATIK PRATAP           | 36 |
| 281 | SHINDE ADITYA SAMBHAJI         | 36 |
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| 284 | SOLASKAR ROHIT JITENDRA        | 36 |
| 285 | YADAV NIKHIL DILIPKUMAR        | 40 |
| 286 | DHUMAL RUTIK DATTATRAY         | 32 |
| 287 | NIKAM SANGRAM BALKRISHNA       | 36 |
| 288 | LEMBHE ROHAN RUPCHAND          | 40 |
| 289 | LEMBHE JAY NITIN               | 32 |
| 290 | SHIRKE PRAFULL SURESH          | 36 |
| 291 | ONKAR ANKUSH SHINGATE          | 32 |
| 292 | ARDE MANSI DILIP               | 40 |
| 293 | JADHAV KIRAN DNYANESHWAR       | 34 |
| 294 | JADHAV MADHUSUDAN DHARMENDRA   | 32 |
| 295 | CHAVAN JYOTI SOMNATH           | 40 |
| 296 | MAINDARGI BHAGIRATHI BASAVRAJ  | 34 |
| 297 | YADAV ANKITA DATTATRAY         | 28 |
| 298 | KUDALE ARATI JITENDRA          | 32 |
| 299 | BHILARE SAURABH RAMCHANDRA     | 28 |
| 300 | POL SAURABH RAVINDRA           | 32 |
| 301 | BHOSALE PRATIK LAXMAN          | 28 |
| 302 | BHOSALE PRANAV LAXMAN          | 32 |
| 303 | SHINDE PRASAD RAJENDRA         | 28 |
| 304 | MUNGASE SAURABH DATTATRAYA     | 28 |
| 305 | BHOSALE ASHISH SHASHIKANT      | 32 |
| 306 | ROHIT HARIBHAU JAVAL           | 34 |
| 307 | BHOSALE SHUBHAM DATTATRAY      | 36 |
| 308 | BABAR RAKESH RAJENDRA          | 32 |
| 309 | JAMBHALE AKASH NAVNATH         | 32 |
| 310 | HAGAVANE ROHIT DILIP           | 34 |
| 311 | DHUMAL SNEHAL HEMANT           | 32 |
| 312 | PISAL AMIT DIPAK               | 28 |
| 313 | NAWADKAR SAYALI HINDURAO       | 32 |



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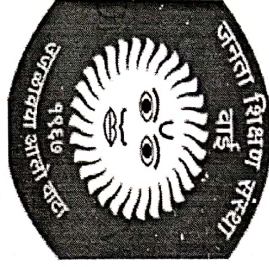




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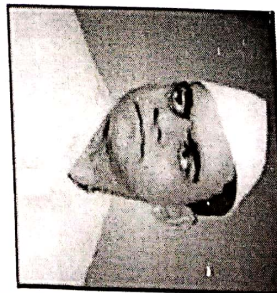


Janata Shikshan Sanstha's

# Kisan Veer Mahavidyalaya, Wai

Tal-Wai, Dist-Satara, Maharashtra(India)-412803

NAAC Status - Grade 'B+' CGPA (2.66)



## CERTIFICATE

This is to Certify that **MR/MISS JADHAV PRIYANKA DASHRATH** ..... has completed his/her short term course on

### Soil and Soil Testing

Organized by

Department of Chemistry, Kisan Veer Mahavidyalaya, Wai -2021-22

2020-21

  
Convener

Head, Department of Chemistry

Department of Chemistry  
Kisan Veer Mahavidyalaya, Wai



  
Principal,

Kisan Veer Mahavidyalaya, Wai

Wai (Satara)

Janata Shikshan Sanatha's  
Kisan Veer Mahavidyalaya, Wai (Satara) M.S.  
B.Sc. III (Certificate Course)

## Soil and Soil Testing

Name of Resource Person: Mrs. Rupali Khane  
Topic Name: Soil and Soil Testing  
Day & Date: Friday 26/2/2021 Time: \_\_\_\_\_

### FEEDBACK

- Full Name in Capital Letters: MRS. JADHAV PRIYANKA DASHARATH
- Designation: Student
- Name of Institute/College/University: Kisan Veer Mahavidyalaya, Wai
- Phone/Mobile No.: 9890891947
- E-mail: \_\_\_\_\_

Please give your opinion by making  $\checkmark$  mark in proper cell.

| Sr. No. | Heads                                  | Excellent    | Very Good    | Good | Satisfactory |
|---------|--|--------------|--------------|------|--------------|
| 01      | Theme of Guest/Visiting Lecture        |              | $\checkmark$ |      |              |
| 02      | Invited Resource Person                |              | $\checkmark$ |      |              |
| 03      | Organization of Guest/Visiting Lecture | $\checkmark$ |              |      |              |
| 04      | Hospitability                          |              |              |      |              |
| 05      | Overall Impression                     |              | $\checkmark$ |      |              |

- Suggestion/s if any: Nil



Jadhav P.D.  
Signature

(Name: Jadhav P.D.)

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Soil and Soil Testing

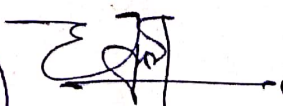
Class: B. Sc. III  
Year: 2020-21

Date:  
Total Marks: 40

Que. Choose the correct alternative from the following.

- Which of the following fertilizer useful for well growth's of the roots in plants?  
a) P- fertilizer      b) N-fertilizer      c) K - fertilizer
- Red colour of fruit flower is due to .....  
a) Lycopene      b) glycopene      c) ammonium nitrate
- ..... chemicals used to kill Nematodes in soil.  
a) Thymate      b) Sulphate      c) Zincates
- Most abundant metal present in earth crust .....  
a) Si      b) Al      c) K
- Elements present in solid is detected by .....  
a) AAS      b) UV      c) NMR
- Colourimetry based on .....  
a) Beers Lamberd's law      b) Ohm's law      c) Newton's law
- ..... fertilizer used to increases fertility of soil.  
a) Organic      b) Inorganic      c) Physical
- ..... chemicals used to control Rhodentisites.  
a) Zn      b) Al      c) Na
- ..... elements necessary to increase size of fruit.  
a) K      b) N      c) P
- ..... is very commonly used for the measurement of the reaction of a solution or medium.  
a) pH meters      b) conductometer      c) galvamometer
- The most delicate part of pH meter is .....  
a) glass electrode      b) salt bridge      c) standard Calomel electrode
- Salinity of soil & water is characterized by .....  
a) organic salt      b) organic solute      c) total amount of dissolved inorganic solute
- Most abundant elements in earth crust are .....  
a) O<sub>2</sub>      b) Ca      c) Mg
- What is the percentage of N in urea.  
a) 46.6%      b) 50%      c) 7%
- For soil analysis ..... filter paper mostly used.  
a) Whatman's No. 1      b) Whatman's No. 2      c) Whatman's No. 41
- White colour of soil is due to .....  
a) Ca      b) Mg      c) Fe
- Red colour of soil is due to .....  
a) Fe      b) Ca      c) Mg
- ..... Hybicides used to control all types of weeds.  
a) Glyphosie      b) 2,4 DNP      c) glacial acetic acid
- ..... pH of soil necessary to good yield of crops.  
a) Basic      b) Acidic      c) Neutral
- What is DAP?  
a) Di-ammonium phosphate      b) Di-ammonium phorate  
c) Di-ammoiu cuprate



  
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