



SPVVS'S

**G.P.PORWAL ARTS, COMMERCE &  
V.V.SALIMATH SCIENCE COLLEGE,  
SINDGI**



**BROCHURE**



# DEPARTMENT OF CHEMISTRY

**CERTIFICATE COURSE  
2020-21**

**TITLE : SOIL ANALYSIS**

**DATE: 25/10/2020 TO 30/12/2020**

**Inauguration  
25/10/2020  
Time : 10:30 AM**

**Valedictory  
04/01/2021  
Time : 10:30 AM**

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H.O.D.

Dept. of Chemistry  
G. P. Porwal Arts & Commerce &  
V. V. Salimath Science College  
SINDGI-586128

*SSM*

**Coordinator IQAC**  
G. P. PORWAL ARTS, COM &  
V. V. SALIMATH Sc. College  
SINDGI-586128

*[Signature]*  
**Principal,**

G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College  
SINDGI-586128. College Code: 52



S.P.V.V.S'S  
G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE,  
SINDGI – 586 128  
(Dist: Vijayapur. Karnataka State)

### NAME OF THE COURSE

SOIL ANALYSIS

### OFFERED BY

DEPARTMENT OF  
CHEMISTRY

### COURSE CODE

CCCHEMSOI 20-21

### COURSE COORDINATOR

SMT.S.S.MANGALORE  
HOD, CHEMISTRY

## DEPARTMENT OF CHEMISTRY CERTIFICATE COURSE DETAILS

### INSTRUCTIONAL DESIGN

**30 HOURS** (This course is of Thirty Hrs duration which include Theory and Practical)

### ABOUT COLLEGE

G.P.Porwal Arts, Commerce & V.V.Salimath Science College is the first science college in Sindagi Taluk of Vijayapur district which provides education in science stream at U.G. level to the educationally, economically and socially backward students of this Taluk. Since 1988, many students are graduated with B.Sc in Chemistry. Chemistry is one of the optional subject.

IQAC of G.P.Porwal Arts, Commerce & V.V.Salimath Science College, in its meeting decided to introduce few self financed certificate courses from the academic sessions 2020-21. The continuation of these courses will depend on interest and participation of students.

### ELIGIBILITY

All student of I semester are eligible to enroll for the course.

## SCOPE OF THE COURSE

The course paves way for Entrepreneurship and career opportunities in Central Government and State Government Organizations.

## OBJECTIVES

- To evaluate the fertility status of a soil for providing an index of nutrient availability or supply in a given soil.
- To provide a basis for recommendations on the amount of lime and fertilizer.
- TO evaluate the fertility status of a soil on area basis by the use of soil test summaries.

## BENEFITS OF SOIL ANALYSIS

- Determines level of nutrients in the soil.
- Helps farmers in making smart data driven decisions.
- Helps in getting higher yield of crop.
- Helps in optimizing the fertilizer expenditure.
- Helps in selecting the right fertilizer and quantity for optimum fertility.
- Determination the effect of environment factors on soil
- Determination soil fertility.

## COURSE OUTCOMES

- At the end of the program, students identify the benefits of soil organic matter
  - Identify the six essential nutrients elements in soil and describe how they affect soil fertility.
  - Identify the factors affecting soil formation and describe processes involved.
  - Identify soil profile in terms of soil colour, texture and quantity of organic matter
-

## COURSE CONTENT

### UNIT-I

10 Hrs

Introduction: definition of soil, concept of lithosphere, soil as a natural body soil components

### UNIT-II

10 Hrs

Properties of soil

- Physical properties- soil separates, texture, Aggregation and structure.
- Chemical properties- Morphology of colloids, chemistry of clays, ionic exchange.

### UNIT-III

10 Hrs

Common soil test methods for fertilizers recommendations: Quantity- intensity relationships: soil test crop response correlations and response functions

## BOARD OF STUDIES

- |                        |   |                      |
|------------------------|---|----------------------|
| 1. Prof. D.M.Patil     | : | Chairman & Principal |
| 2. Prof. S.S.Mangalore | : | Coordinator          |
| 3. Miss. P.S.Biradar   | : | Member               |
| 4. Miss. B.H.Sunagar   | : | Member               |

THANK YOU

  
H.O.D.  
Dept. of Chemistry  
G. P. Porwal Arts, Comm & V. V. Salimath Science College  
SINDGI-586128

  
Coordinator IQAC  
G. P. PORWAL ARTS, COMM &  
V. V. SALIMATH Sc. College  
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Principal,  
G. P. Porwal Arts, Comm &  
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SINDGI-586128. College Code: 52



S.P.V.V.S'S

**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE  
COLLEGE, SINDGI – 586 128** (Dist : Vijayapur. Karnataka State)

Affiliated to Rani Channamma University, Belagavi

E-mail: [gpppprincipal@gmail.com](mailto:gpppprincipal@gmail.com) Web: [www.gppvvs.ac.in](http://www.gppvvs.ac.in) Ph: 08488-221244 Mobile : 9611032604

From,

The HOD,

Department of chemistry

Date:-21/10/2020

To,

The Principal,

G P Porwal Arts ,Commerce and V V Salimath Science college

Sub: Permission to start certificate course on **Preparation of soil analysis**

Respected Sir,

We are the faculty of chemistry department have decided to start Certificate course on "**soil analysis**" for BSc I sem students. So we kindly request you to please give the permission to start the course. Hope that the authority will consider the request and oblige.

Thanking You

Date: 21/10/2020

Place:Sindagi

Yours faithfully

Dept. of Chemistry

G. P. Porwal Arts & Comm. & V.V. Salimath Science College  
SINDGI - 586 128

Co-ordinator IQAC

G. P. Porwal Arts, Comm & V. V. Salimath  
Science College, SINDGI - 586 128. Dt:Vijayapur

Principal,

G.P.Porwal Arts, Comm. &  
V.V.Salimath Sc. College  
& P. G. Centre, SINDAGI.



S.P.V.V.S'S

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Date: 22/10/20

## Department of Chemistry

### NOTICE

It is hereby informed to all the students of BSc I semester that Certificate course on  
" Soil analysis " will be started in our college from 25/10/20 . Hence interested students  
may apply on or before 24-10-2020

Contact:

Prof, P S Biradar  
Prof.B H Sunagar

*S. Mangalore*  
H.O.D.

Dept. of Chemistry,  
G.P. Porwal Arts & Commerce &  
V.V. Salimath Science College  
S S Mangalore

*U. P.*  
Co-ordinator IQAC

G. P. Porwal Arts, Comm & V. V. Salimath  
College, SINDGI-586128 Dist: Vijayapur

*P.*  
Principal,

G.P.Porwal Arts, Comm. &  
V.V.Salimath Sc. College  
& P. G. Centre, SINDAGI.



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Certificate Course-2020-21

“SOIL ANALYSIS ”

➤ Enrolment of the students :-

| Sl.No | Reg.No.  | Name of the students     | Class      |
|-------|----------|--------------------------|------------|
| 1     | S2032401 | AISHWARYA M MASIBINAL    | B.Sc I sem |
| 2     | S2032402 | AISHWARYA S HIREMATH     | B.Sc I sem |
| 3     | S2032403 | AKASH DEVINDRAPPA EMMETI | B.Sc I sem |
| 4     | S2032404 | AKASH KUMBAR             | B.Sc I sem |
| 5     | S2032405 | AKSHATA                  | B.Sc I sem |
| 6     | S2032406 | AKSHAY ANOOR             | B.Sc I sem |
| 7     | S2032407 | AKSHAYAKUMAR M ANGADI    | B.Sc I sem |
| 8     | S2032408 | AMBIKA                   | B.Sc I sem |
| 9     | S2032409 | AMBIKA BISE              | B.Sc I sem |
| 10    | S2032410 | ANIL PARAMANAND          | B.Sc I sem |
| 11    | S2032411 | APSANABEGUM KATAGAR      | B.Sc I sem |
| 12    | S2032412 | ARCHANA                  | B.Sc I sem |
| 13    | S2032414 | ARUNA TEGGELLI           | B.Sc I sem |
| 14    | S2032416 | BASAVARAJ HIREMATH       | B.Sc I sem |
| 15    | S2032417 | BASAVARAJ KARASHETTY     | B.Sc I sem |
| 16    | S2032418 | BHAGAMMA HOSAMANI        | B.Sc I sem |
| 17    | S2032419 | BHAGAVANTRAY YARAGAL     | B.Sc I sem |
| 18    | S2032420 | BHAGYA BIRADAR           | B.Sc I sem |

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|----|----------|----------------------------|------------|
| 19 | S2032421 | BHAGYALAXMI NAGESH NAIKODI | B.Sc I sem |
| 20 | S2032422 | BHAGYASHREE ANAGOND        | B.Sc I sem |
| 21 | S2032424 | BHAGYASHREE G NADAKUR      | B.Sc I sem |
| 22 | S2032425 | BHAGYASHREE G HARSUR       | B.Sc I sem |
| 23 | S2032426 | BHAGYASHREE M HARIJAN      | B.Sc I sem |
| 24 | S2032427 | BHAGYASHREE NANAGOUDA      | B.Sc I sem |
| 25 | S2032428 | BHAGYASHREE PATTAR         | B.Sc I sem |
| 26 | S2032429 | BHAGYASHREE S PATTAR       | B.Sc I sem |
| 27 | S2032430 | BHAGYASHREE S HATTARAKI    | B.Sc I sem |
| 28 | S2032431 | BHARATI BAGALI             | B.Sc I sem |
| 29 | S2032432 | BHUVANESHWARI              | B.Sc I sem |
| 30 | S2032433 | BHUVANESHWARI JATTANAL     | B.Sc I sem |
| 31 | S2032434 | BIBIALISHA SALEEM JUMNAL   | B.Sc I sem |
| 32 | S2032435 | CHAITRA SANGAM             | B.Sc I sem |
| 33 | S2032439 | DEEPA M RAMPURMATH         | B.Sc I sem |
| 34 | S2032440 | DEEPIKA PADMESH NAYAK      | B.Sc I sem |
| 35 | S2032442 | GOLLALAPPAGOUD PATIL       | B.Sc I sem |
| 36 | S2032443 | GURURAJ KONNUR             | B.Sc I sem |
| 37 | S2032444 | HANAMANTA PUJARI           | B.Sc I sem |
| 38 | S2032445 | HEENA K BIRADAR            | B.Sc I sem |
| 39 | S2032446 | HEMA ASHOK SINGRI          | B.Sc I sem |
| 40 | S2032447 | HUSENBI PATIL              | B.Sc I sem |
| 41 | S2032448 | KAMALAKSHI NAIKODI         | B.Sc I sem |
| 42 | S2032449 | KARTIK BIRADAR             | B.Sc I sem |
| 43 | S2032450 | KASHIMSAB KHARJAGI         | B.Sc I sem |
| 44 | S2032451 | KAVERI MUJAGOND            | B.Sc I sem |
| 45 | S2032453 | KEERTI                     | B.Sc I sem |
| 46 | S2032454 | KEERTI TARAPUR             | B.Sc I sem |

Bmk

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|    |          |                           |            |                      |
|----|----------|---------------------------|------------|----------------------|
| 47 | S2032455 | KRISHNA JAMBENAL          | B.Sc I sem | <u>Krishna</u>       |
| 48 | S2032456 | LAXMI                     | B.Sc I sem | <u>Laxmi</u>         |
| 49 | S2032458 | MAHESH BASAVARAJ JAMBUGOL | B.Sc I sem | <u>Mahesh</u>        |
| 50 | S2032459 | MALLANAGOUD C PATIL       | B.Sc I sem | <u>Mallan patil</u>  |
| 51 | S2032460 | MALLANAGOUDA              | B.Sc I sem | <u>Mallan</u>        |
| 52 | S2032461 | MALLIKARJUN SAMBHA        | B.Sc I sem | <u>Malli</u>         |
| 53 | S2032462 | MEENAKSHI HACHCHADAD      | B.Sc I sem | <u>Meenakshi</u>     |
| 54 | S2032464 | MOHAMMEDSOHEL SINDAGIKAR  | B.Sc I sem | <u>Mohammed</u>      |
| 55 | S2032465 | MUSKAN JUMANAL            | B.Sc I sem | <u>Muskan</u>        |
| 56 | S2032466 | NADAF NAJIYA BABULAL      | B.Sc I sem | <u>Nadaf</u>         |
| 57 | S2032467 | NAGESH THAKARU RATHOD     | B.Sc I sem | <u>Nagesh</u>        |
| 58 | S2032468 | NAJMINBEGUM               | B.Sc I sem | <u>Najmin</u>        |
| 59 | S2032469 | NEELAMMA PATIL            | B.Sc I sem | <u>Neelamma</u>      |
| 60 | S2032470 | NEELAMMA S MARSANALLI     | B.Sc I sem | <u>Neelamma</u>      |
| 61 | S2032471 | PALLAVI GANGARAM RATHOD   | B.Sc I sem | <u>Pallavi</u>       |
| 62 | S2032472 | PARASHURAM                | B.Sc I sem | <u>Parashuram</u>    |
| 63 | S2032473 | PAVANKUMAR KANNOLLI       | B.Sc I sem | <u>Pavankumar</u>    |
| 64 | S2032474 | PAVITRA MAKASI            | B.Sc I sem | <u>Pavitra</u>       |
| 65 | S2032475 | PRAKASH AMMAGOL           | B.Sc I sem | <u>Prakash</u>       |
| 66 | S2032476 | PRAKASHA DUNDAPPA JADAGI  | B.Sc I sem | <u>Prakasha</u>      |
| 67 | S2032478 | PRASHANT HIEMATH          | B.Sc I sem | <u>Prashant</u>      |
| 68 | S2032479 | PRASHANT JERAKAR          | B.Sc I sem | <u>Prashant</u>      |
| 69 | S2032480 | PRASHANT VITTHAL GADADE   | B.Sc I sem | <u>Prashant</u>      |
| 70 | S2032481 | PRATIBHA HADAGALL         | B.Sc I sem | <u>Pratibha</u>      |
| 71 | S2032482 | PREETI                    | B.Sc I sem | <u>Preeti</u>        |
| 72 | S2032483 | PREMA                     | B.Sc I sem | <u>Prema</u>         |
| 73 | S2032484 | PREMKUMAR OLEKAR          | B.Sc I sem | <u>Premkumar</u>     |
| 74 | S2032485 | PRIYADARSHINI SURPUR      | B.Sc I sem | <u>Priyadarshini</u> |

|     |          |                              |            |            |
|-----|----------|------------------------------|------------|------------|
| 75  | S2032486 | PRIYANKA SAIBANNA PADASALAGI | B.Sc I sem | PS         |
| 76  | S2032487 | RADHIKA RAMRAO KULAKARNI     | B.Sc I sem | RL         |
| 77  | S2032488 | RAHUL CHINCHOLI              | B.Sc I sem | PSR        |
| 78  | S2032489 | RAHUL RAMANNA GORANAL        | B.Sc I sem | Rad        |
| 79  | S2032490 | RAJESHWARI                   | B.Sc I sem | RTS        |
| 80  | S2032492 | RANAJEET I CHAVHAN           | B.Sc I sem | RTIC       |
| 81  | S2032494 | RAVITEJ PATIL                | B.Sc I sem | -          |
| 82  | S2032495 | RAYAPPAGOUDA POLICEBIRADAR   | B.Sc I sem | Rad        |
| 83  | S2032497 | ROHIT PANDIT                 | B.Sc I sem | Rohit      |
| 84  | S2032498 | ROOPA CHANDRAM PUJARI        | B.Sc I sem | R          |
| 85  | S2032499 | SACHIN RATHOD                | B.Sc I sem | Sub        |
| 86  | S2032500 | SAGAR                        | B.Sc I sem | St         |
| 87  | S2032501 | SAHANA ARAVIND SANGAM        | B.Sc I sem | Sub        |
| 88  | S2032503 | SANA UMARALI HASARAGUNDAGI   | B.Sc I sem | SH         |
| 89  | S2032504 | SANAKOUSAR H CHANDRAKI       | B.Sc I sem | SH         |
| 90  | S2032505 | SANGANAGOUD BIRADAR          | B.Sc I sem | Sc         |
| 91  | S2032506 | SANGEETA H BAJANTRI          | B.Sc I sem | S          |
| 92  | S2032509 | SANTOSH SHIVANAND KADAGOL    | B.Sc I sem | Sy         |
| 93  | S2032511 | SAVITA M TALAWAR             | B.Sc I sem | Sub        |
| 94  | S2032512 | SHAILA DODAMANI              | B.Sc I sem | SH         |
| 95  | S2032513 | SHAMEER ABDULSAB TALIKOTI    | B.Sc I sem | SH         |
| 96  | S2032514 | SHANTABAI JADHAV             | B.Sc I sem | SH         |
| 97  | S2032515 | SHANTAGOUDA                  | B.Sc I sem | SH         |
| 98  | S2032516 | SHARANABASU C ARALAGUNDAGI   | B.Sc I sem | SH         |
| 99  | S2032517 | SHARAT GOVIND SURYAVANSHI    | B.Sc I sem | Shylo      |
| 100 | S2032518 | SHIVALEELA GORAGUNDAGI       | B.Sc I sem | Shivaleela |
| 101 | S2032519 | SHIVANI RAMESH PATTAR        | B.Sc I sem | S          |

|     |          |                              |            |                                                                                       |
|-----|----------|------------------------------|------------|---------------------------------------------------------------------------------------|
| 75  | S2032486 | PRIYANKA SAIBANNA PADASALAGI | B.Sc I sem |    |
| 76  | S2032487 | RADHIKA RAMRAO KULAKARNI     | B.Sc I sem |    |
| 77  | S2032488 | RAHUL CHINCHOLI              | B.Sc I sem |    |
| 78  | S2032489 | RAHUL RAMANNA GORANAL        | B.Sc I sem |    |
| 79  | S2032490 | RAJESHWARI                   | B.Sc I sem |    |
| 80  | S2032492 | RANAJEET I CHAVHAN           | B.Sc I sem |    |
| 81  | S2032494 | RAVITEJ PATIL                | B.Sc I sem |    |
| 82  | S2032495 | RAYAPPAGOUDA POLICEBIRADAR   | B.Sc I sem |    |
| 83  | S2032497 | ROHIT PANDIT                 | B.Sc I sem |    |
| 84  | S2032498 | ROOPA CHANDRAM PUJARI        | B.Sc I sem |    |
| 85  | S2032499 | SACHIN RATHOD                | B.Sc I sem |    |
| 86  | S2032500 | SAGAR                        | B.Sc I sem |   |
| 87  | S2032501 | SAHANA ARAVIND SANGAM        | B.Sc I sem |  |
| 88  | S2032503 | SANA UMARALI HASARAGUNDAGI   | B.Sc I sem |  |
| 89  | S2032504 | SANAKOUSAR H CHANDRAKI       | B.Sc I sem |  |
| 90  | S2032505 | SANGANAGOUD BIRADAR          | B.Sc I sem |  |
| 91  | S2032506 | SANGEETA H BAJANTRI          | B.Sc I sem |  |
| 92  | S2032509 | SANTOSH SHIVANAND KADAGOL    | B.Sc I sem |  |
| 93  | S2032511 | SAVITA M TALAWAR             | B.Sc I sem |  |
| 94  | S2032512 | SHAILA DODAMANI              | B.Sc I sem |  |
| 95  | S2032513 | SHAMEER ABDULSAB TALIKOTI    | B.Sc I sem |  |
| 96  | S2032514 | SHANTABAI JADHAV             | B.Sc I sem |  |
| 97  | S2032515 | SHANTAGOUDA                  | B.Sc I sem |  |
| 98  | S2032516 | SHARANABASU C ARALAGUNDAGI   | B.Sc I sem |  |
| 99  | S2032517 | SHARAT GOVIND SURYAVANSHI    | B.Sc I sem |  |
| 100 | S2032518 | SHIVALEELA GORAGUNDAGI       | B.Sc I sem |  |
| 101 | S2032519 | SHIVANI RAMESH PATTAR        | B.Sc I sem |  |

|     |          |                               |            |
|-----|----------|-------------------------------|------------|
| 102 | S2032520 | SHIVASHANKAR                  | B.Sc I sem |
| 103 | S2032521 | SHIVRAJKUMAR                  | B.Sc I sem |
| 104 | S2032522 | SHREEKANT MADARI              | B.Sc I sem |
| 105 | S2032524 | SHWETA                        | B.Sc I sem |
| 106 | S2032525 | SHWETA                        | B.Sc I sem |
| 107 | S2032526 | SHWETA DEVANAGAV              | B.Sc I sem |
| 108 | S2032527 | SHWETA PATIL                  | B.Sc I sem |
| 109 | S2032528 | SIDDAMMA PHAKEERAPPA VALIKAR  | B.Sc I sem |
| 110 | S2032529 | SIDDANAGOUD SALOTAGI          | B.Sc I sem |
| 111 | S2032530 | SIDDARTH TALLOLI              | B.Sc I sem |
| 112 | S2032531 | SIDDHARAM G BADIGER           | B.Sc I sem |
| 113 | S2032532 | SNEHA S NADAKUR               | B.Sc I sem |
| 114 | S2032535 | SOUMYA                        | B.Sc I sem |
| 115 | S2032537 | SUHANA H                      | B.Sc I sem |
| 116 | S2032538 | SUNIL                         | B.Sc I sem |
| 117 | S2032539 | SUPRIYA                       | B.Sc I sem |
| 118 | S2032540 | SUPRIYA GAYAKAWAD             | B.Sc I sem |
| 119 | S2032541 | SWATI SHIVANAND HARNAL        | B.Sc I sem |
| 120 | S2032543 | ULFATH SALEEM BALAGANUR       | B.Sc I sem |
| 121 | S2032544 | V VIDYAPRASAD                 | B.Sc I sem |
| 122 | S2032545 | VASUDEV                       | B.Sc I sem |
| 123 | S2032546 | VIDHYASHREE HADAPAD           | B.Sc I sem |
| 124 | S2032548 | VIJAYALAXMI SAYABANNA POOJARI | B.Sc I sem |
| 125 | S2032549 | VINOD VIJAYKUMAR DESAI        | B.Sc I sem |
| 126 | S2032550 | VISHAL                        | B.Sc I sem |
| 127 | S2032551 | VISHWANATH DATTATREY PATTAR   | B.Sc I sem |
| 128 | S2032552 | VISHWANATH KUMBAR             | B.Sc I sem |
| 129 | S2032553 | VISHWANATH YATNOOR            | B.Sc I sem |

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A hand-drawn diagram of a cell. It features a large, irregular outer boundary representing the cell membrane. Inside, there is a smaller, more rounded structure representing the nucleus, which contains a small, dense, circular nucleolus.

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|-----|----------|---------------------|------------|
| 130 | S2032554 | YUVARAJ BAGALI      | B.Sc I sem |
| 131 | S2035651 | NIYA ANJUM HOSAMANI | B.Sc I sem |
| 132 | S2016277 | SHREELAXMI B KALLUR | B.Sc I sem |
| 133 | S2090077 | RAVI BADIGER        | B.Sc I sem |
| 134 | S2090012 | KAVERI ITAGATTI     | B.Sc I sem |
| 135 | S2028695 | PRAJWAL M           | B.Sc I sem |

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Dept. of Chemistry  
G P Porwal Arts & Commerce. &  
V V Salimath Science College  
SINDAGI-586128

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Co-ordinator IQAC  
G. P. Porwal Arts, Comm & V. V. Salimath  
Science College, SINDAGI-586128. Dt:Vijayapur

*J*

Principal,  
G.P.Porwal Arts, Comm. &  
V.V.Salimath Sc. College  
& P. G. Centre, SINDAGI.



S.P.V.V.S'S

**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE  
COLLEGE, SINDGI – 586 128 (Dist : Vijayapur. Karnataka State)**

**Affiliated to Rani Channamma University, Belagavi**

E-mail: [gppprincipal@gmail.com](mailto:gppprincipal@gmail.com) Web: [www.gppvvs.ac.in](http://www.gppvvs.ac.in) Ph: 08488-221244 Mobile : 9611032604

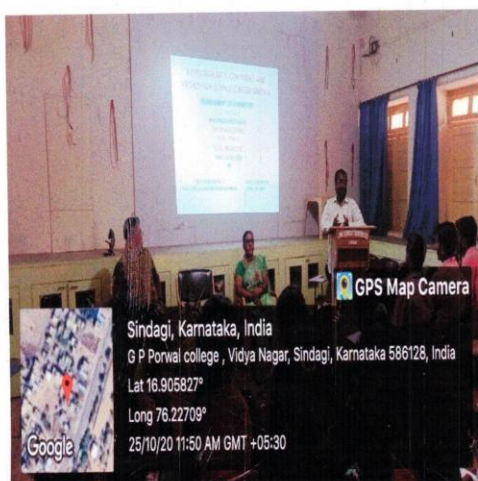
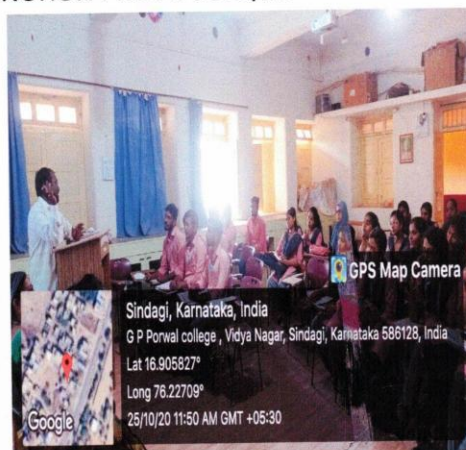
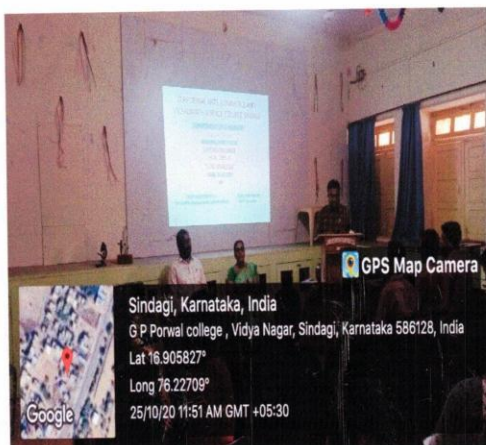
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE

ON

SOIL ANALYSIS

INAGUARATION FUNCTION PHOTO 2020/21



*H.O.D.*  
H.O.D.

Dent of Chemistry  
G P Porwal Arts, Commerce &  
V V Salimath Science College  
SINDGI-586128

*Coordinator IQAC*  
Coordinator IQAC

G. P. PORWAL ARTS, COM & V. V. SALIMATH Sc. College,  
SINDGI-586128.

*Principal*  
Principal,

G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College  
SINDGI-586128, College Code: 5234



S.P.V.V.S'S

**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE  
COLLEGE, SINDGI – 586 128** (Dist : Vijayapur. Karnataka State)

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## Department of Chemistry

: Certificate course :

(only for First semester)

### THEORY & PRACTICAL TIME TABLE 2020-21

| Days      | TIME       |            | Name of the faculty                                           |
|-----------|------------|------------|---------------------------------------------------------------|
|           | THEORY     | PRACTICAL  |                                                               |
| Monday    | 3PM to 4PM |            | 1) Prof. S S Mangalore(HOD)<br>2) P S Biradar<br>3)S.S.Mamani |
| Tuesday   | 3PM to 4PM |            |                                                               |
| Wednesday | 3PM to 4PM | 4PM to 6PM |                                                               |
| Thursday  | 3PM to 4PM | 4PM to 6PM |                                                               |
| Friday    | 3PM to 4PM |            |                                                               |

  
H.O.D.  
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Date: 07/12/2021

## Department of Chemistry

Certificate Course 2020-2021

“soil analysis ”

### NOTICE

It is hereby informed to all the students of B.Sc I semester who have participated in Certificate course please attend Practical and Theory exam as per following time table.

| Date       | Day       | Time             |           | Marks |
|------------|-----------|------------------|-----------|-------|
| 08/12/2021 | wednesday | 3:00pm to 4:00pm | Theory    | 50    |
| 09/12/2021 | Thursday  | 3:00pm to 4:00pm | Practical | 50    |

*Shangela*  
H.O.D.

Dept. of Chemistry  
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V.V. Salimath Science College  
SINDGI - 586 128

*Shangela*

Co-ordinator IQAC

G. P. Porwal Arts, Comm & V. V. Salimath  
Science College, SINDGI-586128, Dt.Vijayapur

*Shangela*

HOD

Principal,

G.P.Porwal Arts, Comm. &  
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& P. G. Centre, SINDGI.



S.P.V.V.S'S

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## Department of Chemistry

**Certificate Course-2020-2021**

**"Soil analysis "**

(Only for First semester)

**Tme: 2 Hrs**

**Question Paper 2020-21**

**Max Marks: 50**

**Q.No: 1 Answer the following questions.**

**10 X 5 = 50**

- 1) What is Soil? Nutrients Present in soil.
- 2) Write the types of Soil.
- 3) What is Soil analysis?
- 4) Write the components of Soil.
- 5) Draw the PH meter of soil analysis.

**Q.No: 2 Answer the following questions**

- 1) Explain in detail PH meter of soil.
- 2) Explain alkalinity and salinity of soil.
- 3) Explain the difference between inorganic and organic soil.
- 4) Define :Alkalinity ,PH, Salinity.

**5) Q.No: 2 Answer the following questions**

- a) Explain nitrogen and phosphorous contents present in soil.
- b) Explain properties of soil.

H.O.D.

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College, SINDGI-586128. Dist: Vijayapur

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## Department of chemistry

### Certificate course

Syllabus:

30 hours

Unit I :

Introduction : definition of soil , concept of lithosphere , soil as a natural body ,soil components : Air , water , inorganic and organic solids, formation of soil ,types of soils and basic concepts.

Unit II: Properties of soil

- A) Physical properties:- soil separates , Texture, Aggregation and structure, Temperature, Colour, Properties of soil mixture, Bulk density , Particle density, Aeration and drainage, compaction, Surface area, Soil water relationships.
- B) Chemical properties:- Morphology of colloids, Chemistry of clays, Ionic exchange, Acidity, Alkalinity, pH, salinity, reactions in liming and acidification.

Unit III:

Common soil test methods for fertilizers recommendations : quantity – intensity relationships ; soil test crop response correlations and response functions.

PRACTICALS:

Part I: Soil analysis

06 hours

- 1) To determine ph of given soil sample.
- 2) To determine the bulk density of given soil.
- 3) To determine the specific gravity of the given soil.
- 4) To determine the moisture content of given soil.
- 5) To determine the electrical conductivity of given soil.
- 6) To determine the alkalinity of given soil.

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|-----|----------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 21  | S2032424 | BHAGYASHREE G NADAKUR    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 22  | S2032425 | BHAGYASHREE G HARSUR     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 23  | S2032426 | BHAGYASHREE M HARIJAN    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24  | S2032427 | BHAGYASHREE NANAGOUDA    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 25  | S2032428 | BHAGYASHREE PATTAR       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26  | S2032429 | BHAGYASHREE S PATTAR     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 27  | S2032430 | BHAGYASHREE S HATTARAKI  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 28  | S2032431 | BHARATI BAGALI           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 29  | S2032432 | BHUVANESHWARI            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 30  | S2032433 | BHUVANESHWARI JATTANAL   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 31  | S2032434 | BIBIALISHA SALEEM JUMNAL |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 32  | S2032435 | CHAITRA SANGAM           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33  | S2032439 | DEEPA M RAMPURMATH       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34  | S2032440 | DEEPIKA PADMESH NAYAK    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35  | S2032442 | GOLLALAPPAGAUD PATIL     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 36  | S2032443 | GURURAJ KONNUR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 37  | S2032444 | HANAMANTA PUJARI         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 38  | S2032445 | HEENA K BIRADAR          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39  | S2032446 | HEMA ASHOK SINGRI        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 40  | S2032447 | HUSENBI PATIL            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 41  | S2032448 | KAMALAKSHI NAIKODI       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42  | S2032449 | KARTIK BIRADAR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

| No. | RegNo.   | StudentName              | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|-----|----------|--------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 21  | S2032424 | BHAGYASHREE G NADAKUR    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 22  | S2032425 | BHAGYASHREE G HARSUR     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 23  | S2032426 | BHAGYASHREE M HARIJAN    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 24  | S2032427 | BHAGYASHREE NANAGOUDA    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 25  | S2032428 | BHAGYASHREE PATTAR       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 26  | S2032429 | BHAGYASHREE S PATTAR     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 27  | S2032430 | BHAGYASHREE S HATTARAKI  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 28  | S2032431 | BHARATI BAGALI           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 29  | S2032432 | BHUVANESHWARI            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 30  | S2032433 | BHUVANESHWARI JATTANAL   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 31  | S2032434 | BIBIALISHA SALEEM JUMNAL |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 32  | S2032435 | CHAITRA SANGAM           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 33  | S2032439 | DEEPA M RAMPURMATH       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 34  | S2032440 | DEEPIKA PADMESH NAYAK    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 35  | S2032442 | GOLLALAPPAGAUD PATIL     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 36  | S2032443 | GURURAJ KONNUR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 37  | S2032444 | HANAMANTA PUJARI         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 38  | S2032445 | HEENA K BIRADAR          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 39  | S2032446 | HEMA ASHOK SINGRI        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 40  | S2032447 | HUSENBI PATIL            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 41  | S2032448 | KAMALAKSHI NAIKODI       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 42  | S2032449 | KARTIK BIRADAR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 43  | S2032450 | KASHIMSAB KHARJAGI       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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|-----|----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 43  | S2032450 | KASHIMSAB KHARJAGI        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 44  | S2032451 | KAVERI MUJAGOND           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 45  | S2032453 | KEERTI                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 46  | S2032454 | KEERTI TARAPUR            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 47  | S2032455 | KRISHNA JAMBENAL          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 48  | S2032456 | LAXMI                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 49  | S2032458 | MAHESH BASAVARAJ JAMBUGOL |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 50  | S2032459 | MALLANAGOD C PATIL        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 51  | S2032460 | MALLANAGODA               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 52  | S2032461 | MALLIKARJUN SAMBHA        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 53  | S2032462 | MEENAKSHI HACHHADAD       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 54  | S2032464 | MOHAMMEDSOHEL SINDAGIKAR  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 55  | S2032465 | MUSKAN JUMANAL            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 56  | S2032466 | NADAF NAJIYA BABULAL      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 57  | S2032467 | NAGESH THAKARU RATHOD     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 58  | S2032468 | NAJMINBEGUM               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 59  | S2032469 | NEELAMMA PATIL            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60  | S2032470 | NEELAMMA S MARSANALLI     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 61  | S2032471 | PALLAVI GANGARAM RATHOD   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 62  | S2032472 | PARASHURAM                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 63  | S2032473 | PAVANKUMAR KANNOLI        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 64  | S2032474 | PAVITRA MAKASI            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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| No. | RegNo.   | StudentName               | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|-----|----------|---------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 44  | S2032451 | KAVERI MUJAGOND           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 45  | S2032453 | KEERTI                    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 46  | S2032454 | KEERTI TARAPUR            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 47  | S2032455 | KRISHNA JAMBENAL          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 48  | S2032456 | LAXMI                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 49  | S2032458 | MAHESH BASAVARAJ JAMBUGOL |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 50  | S2032459 | MALLANAGOD C PATIL        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 51  | S2032460 | MALLANAGODA               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 52  | S2032461 | MALLIKARJUN SAMBHA        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 53  | S2032462 | MEENAKSHI HACHHADAD       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 54  | S2032464 | MOHAMMEDSOHEL SINDAGIKAR  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 55  | S2032465 | MUSKAN JUMANAL            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 56  | S2032466 | NADAF NAJIYA BABULAL      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 57  | S2032467 | NAGESH THAKARU RATHOD     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 58  | S2032468 | NAJMINBEGUM               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 59  | S2032469 | NEELAMMA PATIL            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 60  | S2032470 | NEELAMMA S MARSANALLI     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 61  | S2032471 | PALLAVI GANGARAM RATHOD   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 62  | S2032472 | PARASHURAM                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 63  | S2032473 | PAVANKUMAR KANNOLI        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 64  | S2032474 | PAVITRA MAKASI            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 65  | S2032475 | PRAKASH AMMAGOL           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 66  | S2032476 | PRAKASHA DUNDAPPA JADAGI  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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|-----|----------|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 65  | S2032475 | PRAKASH AMMAGOL              | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 66  | S2032476 | PRAKASH DUNDAPPA JADAGI      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 67  | S2032478 | PRASHANT HIREMATH            | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 68  | S2032479 | PRASHANT JERAKAR             | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 69  | S2032480 | PRASHANT VITTHAL GADADE      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 70  | S2032481 | PRATIBHA HADAGALL            | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 71  | S2032482 | PREETI                       | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 72  | S2032483 | PREMA                        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 73  | S2032484 | PREMKUMAR OLEKAR             | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 74  | S2032485 | PRIYADARSHINI SURPUR         | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 75  | S2032486 | PRIYANKA SAIBANNA PADASALAGI | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 76  | S2032487 | RADHIKA RAMRAO KULAKARNI     | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 77  | S2032488 | RAHUL CHINCHOLI              | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 78  | S2032489 | RAHUL RAMANNA GORANAL        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 79  | S2032490 | RAJESHWARI                   | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 80  | S2032492 | RANAJEET I CHAVHAN           | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 81  | S2032494 | RAVITEJ PATIL                | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 82  | S2032495 | RAYAPPAGOUDA POLICEBIRADAR   | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 83  | S2032497 | ROHIT PANDIT                 | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 84  | S2032498 | ROOPA CHANDRAM PUJARI        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 85  | S2032499 | SACHIN RATHOD                | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |
| 86  | S2032500 | SAGAR                        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |

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|-----|----------|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 67  | S2032478 | PRASHANT HIREMATH            | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 68  | S2032479 | PRASHANT JERAKAR             | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 69  | S2032480 | PRASHANT VITTHAL GADADE      | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 70  | S2032481 | PRATIBHA HADAGALL            | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 71  | S2032482 | PREETI                       | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 72  | S2032483 | PREMA                        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 73  | S2032484 | PREMKUMAR OLEKAR             | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 74  | S2032485 | PRIYADARSHINI SURPUR         | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 75  | S2032486 | PRIYANKA SAIBANNA PADASALAGI | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 76  | S2032487 | RADHIKA RAMRAO KULAKARNI     | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 77  | S2032488 | RAHUL CHINCHOLI              | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 78  | S2032489 | RAHUL RAMANNA GORANAL        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 79  | S2032490 | RAJESHWARI                   | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 80  | S2032492 | RANAJEET I CHAVHAN           | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 81  | S2032494 | RAVITEJ PATIL                | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 82  | S2032495 | RAYAPPAGOUDA POLICEBIRADAR   | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 83  | S2032497 | ROHIT PANDIT                 | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 84  | S2032498 | ROOPA CHANDRAM PUJARI        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 85  | S2032499 | SACHIN RATHOD                | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 86  | S2032500 | SAGAR                        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 87  | S2032501 | SAHANA ARAVIND SANGAM        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 88  | S2032503 | SANA UMARALI HASARAGUNDAGI   | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 89  | S2032504 | SANAKOUSAR H CHANDRAK        | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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|-----|----------|----------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 87  | S2032501 | SAHANA ARAVIND SANGAM      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 88  | S2032503 | SANA UMARALI HASARAGUNDAGI |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 89  | S2032504 | SANAKUSAR H CHANDRAKI      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 90  | S2032505 | SANGANAGOU BIRADAR         |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 91  | S2032506 | SANGEETA H BAJANTRI        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 92  | S2032509 | SANTOSH SHIVANAND KADAGOL  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 93  | S2032511 | SAVITA M TALAWAR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 94  | S2032512 | SHAILA DODAMANI            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 95  | S2032513 | SHAMEER ABDULSAB TALIKOTI  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 96  | S2032514 | SHANTABAI JADHAV           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 97  | S2032515 | SHANTAGOUDA                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 98  | S2032516 | SHARANABASU C ARALAGUNDAGI |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 99  | S2032517 | SHARAT GOVIND SURYAVANSHI  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 100 | S2032518 | SHIVALEELA GORAGUNDAGI     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 101 | S2032519 | SHIVANI RAMESH PATTAR      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 102 | S2032520 | SHIVASHANKAR               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 103 | S2032521 | SHIVRAJ KUMAR              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 104 | S2032522 | SHREEKANT MADARI           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 105 | S2032524 | SHWETA                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 106 | S2032525 | SHWETA                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 107 | S2032526 | SHWETA DEVANAGAV           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 108 | S2032527 | SHWETA PATIL               |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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| No. | RegNo.   | StudentName                  | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|-----|----------|------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 90  | S2032505 | SANGANAGOU BIRADAR           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 91  | S2032506 | SANGEETA H BAJANTRI          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 92  | S2032509 | SANTOSH SHIVANAND KADAGOL    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 93  | S2032511 | SAVITA M TALAWAR             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 94  | S2032512 | SHAILA DODAMANI              |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 95  | S2032513 | SHAMEER ABDULSAB TALIKOTI    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 96  | S2032514 | SHANTABAI JADHAV             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 97  | S2032515 | SHANTAGOUDA                  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 98  | S2032516 | SHARANABASU C ARALAGUNDAGI   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 99  | S2032517 | SHARAT GOVIND SURYAVANSHI    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 100 | S2032518 | SHIVALEELA GORAGUNDAGI       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 101 | S2032519 | SHIVANI RAMESH PATTAR        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 102 | S2032520 | SHIVASHANKAR                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 103 | S2032521 | SHIVRAJ KUMAR                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 104 | S2032522 | SHREEKANT MADARI             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 105 | S2032524 | SHWETA                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 106 | S2032525 | SHWETA                       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 107 | S2032526 | SHWETA DEVANAGAV             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 108 | S2032527 | SHWETA PATIL                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 109 | S2032528 | SIDDAMMA PHAKEERAPPA VALIKAR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 110 | S2032529 | SIDDANAGOU SALOTAGI          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 111 | S2032530 | SIDDARTH TALLOLI             |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 112 | S2032531 | SIDDHARAM G BADIGER          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

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| No. | RegNo.   | StudentName         | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|-----|----------|---------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 131 | S2035651 | NIYA ANJUM HOSAMANI | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE |
| 132 | S2016277 | SHREELAXMI B KALLUR | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE |
| 133 | S2090077 | RAVI BADIGER        | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE |
| 134 | S2090012 | KAVERI ITAGATTI     | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE |
| 135 | S2028695 | PRAJWAL M           | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE | NE |

  
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 Principal,  
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 & P. G. Centre, SINDAGI.

RANI CHANNAMMA



UNIVERSITY, BELAGAVI

P.L. No.:

101346

## Practical Answer Booklet

Register No. : 61724340

Exam Centre Code : 5234

Candidate Name : ~~Suman~~ ~~Agadi~~ ~~Sangeeta~~

Exam Date :

DD MM YY

Degree/Diploma : Bsc

Exam (Year/sem) : 2017-18

Subject/ Paper Name :

Subject Code :

Candidate Signature

Supervisor Name :

Signature :

Internal Examiner Name:

Examiner Code:

Signature:

External Examiner Name:

Examiner Code:

Signature:

| Q.No                   | Marks | Marks in words |
|------------------------|-------|----------------|
| 1                      |       |                |
| 2                      |       |                |
| 3                      |       |                |
| 4                      |       |                |
| 5                      |       |                |
| 6                      |       |                |
| 7                      |       |                |
| 8                      |       |                |
| 9                      |       |                |
| 10                     |       |                |
| Total                  | 42    |                |
| Total Marks in words : |       | Forty two      |

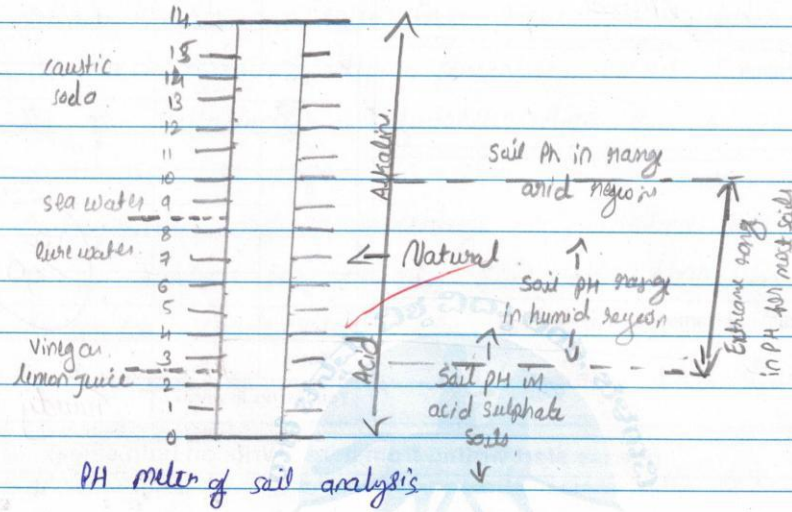
(Please start writing from here : Write on both sides)

| Q. No. | Marks |                                                           |
|--------|-------|-----------------------------------------------------------|
| 1      |       |                                                           |
| 1      |       | Soil is the loose surface material that covers most land. |
|        |       | * Nutrients present in soil :- Nitrogen (N)               |
|        |       | Phosphorus (P)                                            |
|        |       | Potassium (K)                                             |
| 2      |       | There are mainly 3 - types of soil ① sandy soil           |
|        |       | ② clay                                                    |
|        |       | ③ loam.                                                   |
| 3      |       | Soil or                                                   |
| 3      |       | soil analysis is used to determine the level of nutrients |
|        |       | found in soil sample, it can only be as accurate          |
|        |       | as the sample taken in particular field.                  |

Q. No. Marks

4 Main soil components are mineral, water, organic matter, gases, microorganisms.

5



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9 II

1

PH meter of soil

\* Soil pH meter are devices used by home gardeners and agricultural professionals to measure the acidity or alkalinity of soil. Getting your soil pH right is must if you want to produce healthy, vibrant plants. To get accurate measurements you need to know the right procedure for your soil pH meter.

\* The pH meter consist of probe & an indicator. In order to function, the probe must come into contact with the soil. The indicator will give pH reading and the results will provide an accurate idea of pH levels.

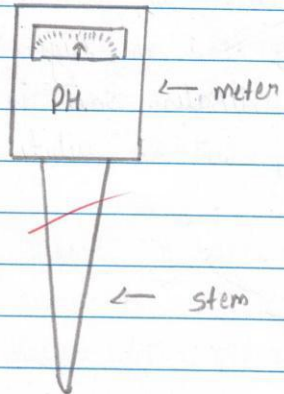
Q. No. Marks

in the soil for most gardening tasks.

\* Soil pH meter are devices used to measure the acidity or alkalinity of soil. They work by measuring the hydrogen ion activity and this is expressed through the potential for hydrogen or pH. The pH scale ranges from 0-14 with 0 being extremely acidic, 7 being neutral & 14 being alkaline.

\* The ideal pH range for most plants falls between 5.5 - 7.5. Although some plants are still able to thrive outside of this range, soil pH affects the uptake of key nutrients, so when pH is out of ideal range there is chance your plants and crops are not having optimum nutrient uptake & therefore not reaching their full growth potential.

\* Different plants prefer differing pH conditions for optimal growth and survival, and this is why it may be important to check your soil pH. Soil conditions vary all over country, ranging from about 4.0 - 8.5



| Q. No.                     | Marks |                                                                                                                                                                                       |
|----------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2                          |       | Alkalinity & salinity of soil.                                                                                                                                                        |
|                            |       | * Alkalinity soils are soils that have PH greater than 8.5 and an exchangeable sodium percentage greater than 51%.                                                                    |
|                            |       | * Salinity soils are soils that have PH in between 7 & 8.5 and an exchangeable sodium percentage below 15%.                                                                           |
|                            |       | * PH of Alkalinity is greater than 8.5 & salinity of soil is less than 8.5.                                                                                                           |
| u.                         |       | * Exchangeable sodium percentage in Alkaline soil is less than 15 & whereas in salinity soil less than 15.                                                                            |
| ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ |       | * Electrical conductivity in Alkaline soil usually less than 4 mmhos/cm whereas in salinity soil 4 or more mmhos/cm.                                                                  |
|                            |       | * Most common ions in the Alkaline soil is sodium carbonate, potassium carbonate & magnesium carbonate in small amount.                                                               |
|                            |       | * Most common ions in salinity of soil is mainly sodium chloride & sodium sulfate also calcium chloride, calcium sulfate, calcium bicarbonate, magnesium bicarbonate in small amount. |
|                            |       | * Organic matter in alkaline soil is higher, whereas in salinity soil is high.                                                                                                        |
|                            |       | * Colour of Alkaline soil is black colour & colour of salinity soil is white or light gray.                                                                                           |



## Practical Answer Booklet

Register No. :  Exam Centre Code :   
 Candidate Name :  Exam Date :   
 Degree/Diploma :  Exam (Year/sem) :   
 Subject/ Paper Name :  Subject Code :

Candidate Signature

Supervisor Name :

Signature :

Internal Examiner Name:

Examiner Code:

Signature:

External Examiner Name:

Examiner Code:

Signature:

| Q.No                   | Marks | Marks in words |
|------------------------|-------|----------------|
| 1                      |       |                |
| 2                      |       |                |
| 3                      |       |                |
| 4                      |       |                |
| 5                      |       |                |
| 6                      |       |                |
| 7                      |       |                |
| 8                      |       |                |
| 9                      |       |                |
| 10                     |       |                |
| Total                  |       |                |
| Total Marks in words : |       |                |

(Please start writing from here : Write on both sides)

| Q. No.                                                                                                                                                                                                                                                                                                                                                        | Marks                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                          | <p><u>Difference between organic &amp; non organic soil</u></p> <table><thead><tr><th>Organic soil.</th><th>Inorganic soil</th></tr></thead><tbody><tr><td><ul style="list-style-type: none"><li>* Prepared in fields.</li><li>* It provides humus to the soil</li><li>* comparatively less rich in plant nutrients.</li><li>* slowly absorbed by plants.</li><li>* There is no side effect, in fact it improves the physical conditions of soil</li><li>* Safe</li><li>* sustainable</li><li>* cost effective</li></ul></td><td><ul style="list-style-type: none"><li>* Products of factories</li><li>* It does not provide humus to soil</li><li>* Rich in plant nutrients</li><li>* Quickly absorbed by plants</li><li>* It causes harm to living organisms disturb soil ecology &amp; pollute ground water.</li><li>* Harmful</li><li>* Non-sustainable</li><li>* Expensive</li></ul></td></tr></tbody></table> | Organic soil. | Inorganic soil | <ul style="list-style-type: none"><li>* Prepared in fields.</li><li>* It provides humus to the soil</li><li>* comparatively less rich in plant nutrients.</li><li>* slowly absorbed by plants.</li><li>* There is no side effect, in fact it improves the physical conditions of soil</li><li>* Safe</li><li>* sustainable</li><li>* cost effective</li></ul> | <ul style="list-style-type: none"><li>* Products of factories</li><li>* It does not provide humus to soil</li><li>* Rich in plant nutrients</li><li>* Quickly absorbed by plants</li><li>* It causes harm to living organisms disturb soil ecology &amp; pollute ground water.</li><li>* Harmful</li><li>* Non-sustainable</li><li>* Expensive</li></ul> |
| Organic soil.                                                                                                                                                                                                                                                                                                                                                 | Inorganic soil                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |                |                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                          |
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| Q. No.                            | Marks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4                                 | <p>Define : Alkalinity, PH, salinity</p> <p>Alkalinity -&gt; It is measure of acid neutralising capacity of water.</p> <p>* Usually determined by titration against sulphuric acid to endpoint of acid-base reaction</p>                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>ರಾಣಿ ಚನ್ನಮ್ಮ ವಿಶ್ವವಿದ್ಯಾಲಯ</p> | <p>PH -&gt; Full form of PH is potential of hydrogen.</p> <p>PH known as negative logarithm of <math>H^+</math> ion concentration. Hence the meaning of name PH is explained as strength of hydrogen or power of hydrogen.</p> <p>Salinity -&gt; It is dissolved salt content of body of water. It is strong contributor to conductivity and helps determine many aspects of chemistry of natural waters &amp; biological processes within them.</p>                                                                                                                                                                                                         |
| <p>Q. 5</p> <p>(a)</p>            | <p>Nitrogen &amp; phosphorus contents present in soil</p> <p>Nitrogen contents present in soil :- several organic compounds compose the organic fraction of nitrogen in soil. Organic matter exists as decomposing plant &amp; animal residues, relatively stable products of decomposition - resistant compounds and humus. Nitrogen has accumulated in these various organic fractions during soil development.</p> <p>Organic matter formation and stability is largely related to long-time moisture &amp; temperature trends. With higher average temperatures soil organic matter decreases. As moisture increases, soil organic matter increases.</p> |

Q. No. Marks

Higher temperatures lead to more rapid & complete organic matter decomposition to soluble products which can leach from soil. Increasing moisture causes more plant growth, resulting in more organic residue ~~on year~~

### Phosphorus in soils:-

The total phosphorus content of most surface soils is low, averaging only 0.6% phosphorus. This compares to an average soil content of 0.14% nitrogen & 0.83% potassium.

The phosphorus content of soils is quite variable, ranging from less than 0.04%  $P_{2O_5}$  in the sandy soils of Atlantic & Gulf coastal plains to more than 0.3% soils of north western United States.

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### Properties of Soil.

Physical properties of soil :-

- ① soil texture :- soil texture defines the proportion in which the soil separates to make the mineral component of the soil. These separates can be classified as sand, clay, and silt. sand & silt are of no importance to soil as they don't contribute to soil ability to retain water or nutrients. clay is an active part of soil texture as clay has small size and it has a large amount of surface area per unit mass and it helps in storing ions and water.

Soil colour -> Basically soil colour depends on oxidized or ferric iron compounds. The darker the colour of the

Q. No. Marks

Soil, the more organic content it contains, the higher the soil temperature as they absorb more heat due to darker colour.

Absorption of water  $\rightarrow$  soil is able to absorb water because of its porosity water holding capacity is different for different types of soils. sand absorbs less water than clay. sandy soil water holding capacity is less than clay soil and loamy soil. clay soil holds more water than sandy soil.

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PH of soil  $\rightarrow$  Soil can be acidic, alkaline, or neutral. Some plants grow well in acidic soil such as potatoes. plants like the bean, garlic grow well in the basic type of soil. carrots and lettuce prefer neutral soil. The PH of soil under the chemical properties of soil. other chemical properties include calcium carbonate content, soil sodicity, soil nitrogen etc.

*H. C. D.*

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G. P. PORWAL ARTS, COM. &  
V. V. SALIMATH Sc. College,  
SINDGI-586128

*Pr*

Principal,

G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College  
SINDGI-586128. College Code: 5234

SPVVSS

G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE

AND BHASKARACHARYA-II PG CENTRE, SINDGI-586128 DIST: Bijapur

Affiliated to Rani Channamma University, Belagavi (Karnataka State)

E-mail: gppprincipal@gmail.com Web: www.gppcollegesindgi.org Ph:08488-221244

**Department of Chemistry**

**Certificate Course-2020-21**

**"Soil analysis "**

**Statement Of Marks -2020-21**

| Sl.No | Reg.No.  | Name of the students     | Class      | Theory<br>50 M | Practical<br>50 M | Total<br>100<br>M | Remark |
|-------|----------|--------------------------|------------|----------------|-------------------|-------------------|--------|
| 1     | S2032401 | AISHWARYA M MASIBINAL    | B.Sc I sem | 42             | 38                | 80                | Pass   |
| 2     | S2032402 | AISHWARYA S HIREMATH     | B.Sc I sem | 38             | 41                | 79                | Pass   |
| 3     | S2032403 | AKASH DEVINDRAPPA EMMETI | B.Sc I sem | 40             | 45                | 85                | Pass   |
| 4     | S2032404 | AKASH KUMBAR             | B.Sc I sem | 35             | 41                | 76                | Pass   |
| 5     | S2032405 | AKSHATA                  | B.Sc I sem | 40             | 42                | 82                | Pass   |
| 6     | S2032406 | AKSHAY ANOOR             | B.Sc I sem | 36             | 47                | 83                | Pass   |
| 7     | S2032407 | AKSHAYAKUMAR M ANGADI    | B.Sc I sem | 38             | 47                | 85                | Pass   |
| 8     | S2032408 | AMBIKA                   | B.Sc I sem | 35             | 41                | 76                | Pass   |
| 9     | S2032409 | AMBIKA BISE              | B.Sc I sem | 37             | 43                | 80                | Pass   |
| 10    | S2032410 | ANIL PARAMANAND          | B.Sc I sem | 34             | 39                | 73                | Pass   |
| 11    | S2032411 | APSANABEGUM KATAGAR      | B.Sc I sem | 38             | 42                | 80                | Pass   |
| 12    | S2032412 | ARCHANA                  | B.Sc I sem | 35             | 41                | 76                | Pass   |
| 13    | S2032414 | ARUNA TEGGELLI           | B.Sc I sem | 36             | 41                | 77                | Pass   |
| 14    | S2032416 | BASAVARAJ HIREMATH       | B.Sc I sem | 38             | 40                | 78                | Pass   |
| 15    | S2032417 | BASAVARAJ KARASHETTY     | B.Sc I sem | 32             | 41                | 69                | Pass   |
| 16    | S2032418 | BHAGAMMA HOSAMANI        | B.Sc I sem | 36             | 40                | 76                | Pass   |
| 17    | S2032419 | BHAGAVANTRAY YARAGAL     | B.Sc I sem | 35             | 42                | 79                | Pass   |
| 18    | S2032420 | BHAGYA BIRADAR           | B.Sc I sem | 38             | 40                | 78                | Pass   |

|    |          |                            |            |    |    |    |      |
|----|----------|----------------------------|------------|----|----|----|------|
| 19 | S2032421 | BHAGYALAXMI NAGESH NAIKODI | B.Sc I sem | 33 | 44 | 77 | Pass |
| 20 | S2032422 | BHAGYASHREE ANAGOND        | B.Sc I sem | 31 | 41 | 72 | Pass |
| 21 | S2032424 | BHAGYASHREE G NADAKUR      | B.Sc I sem | 39 | 42 | 81 | Pass |
| 22 | S2032425 | BHAGYASHREE G HARSUR       | B.Sc I sem | 34 | 45 | 79 | Pass |
| 23 | S2032426 | BHAGYASHREE M HARIJAN      | B.Sc I sem | 37 | 46 | 83 | Pass |
| 24 | S2032427 | BHAGYASHREE NANAGOUDA      | B.Sc I sem | 35 | 41 | 76 | Pass |
| 25 | S2032428 | BHAGYASHREE PATTAR         | B.Sc I sem | 31 | 42 | 73 | Pass |
| 26 | S2032429 | BHAGYASHREE S PATTAR       | B.Sc I sem | 32 | 40 | 72 | Pass |
| 27 | S2032430 | BHAGYASHREE S HATTARAKI    | B.Sc I sem | 30 | 43 | 73 | Pass |
| 28 | S2032431 | BHARATI BAGALI             | B.Sc I sem | 35 | 40 | 75 | Pass |
| 29 | S2032432 | BHUVANESHWARI              | B.Sc I sem | 36 | 41 | 77 | Pass |
| 30 | S2032433 | BHUVANESHWARI JATTANAL     | B.Sc I sem | 39 | 41 | 80 | Pass |
| 31 | S2032434 | BIBIALISHA SALEEM JUMNAL   | B.Sc I sem | 31 | 42 | 73 | Pass |
| 32 | S2032435 | CHAITRA SANGAM             | B.Sc I sem | 34 | 40 | 74 | Pass |
| 33 | S2032439 | DEEPA M RAMPURMATH         | B.Sc I sem | 35 | 43 | 78 | Pass |
| 34 | S2032440 | DEEPIKA PADMESH NAYAK      | B.Sc I sem | 36 | 47 | 83 | Pass |
| 35 | S2032442 | GOLLALAPPAGAUD PATIL       | B.Sc I sem | 32 | 44 | 76 | Pass |
| 36 | S2032443 | GURURAJ KONNUR             | B.Sc I sem | 31 | 45 | 76 | Pass |
| 37 | S2032444 | HANAMANTA PUJARI           | B.Sc I sem | 33 | 46 | 79 | Pass |
| 38 | S2032445 | HEENA K BIRADAR            | B.Sc I sem | 34 | 47 | 81 | Pass |
| 38 | S2032446 | HEMA ASHOK SINGRI          | B.Sc I sem | 38 | 41 | 79 | Pass |
| 39 | S2032447 | HUSENBI PATIL              | B.Sc I sem | 30 | 42 | 72 | Pass |
| 40 | S2032448 | KAMALAKSHI NAIKODI         | B.Sc I sem | 30 | 43 | 73 | Pass |
| 41 | S2032449 | KARTIK BIRADAR             | B.Sc I sem | 32 | 41 | 73 | Pass |
| 42 | S2032450 | KASHIMSAB KHARJAGI         | B.Sc I sem | 31 | 40 | 71 | Pass |
| 43 | S2032451 | KAVERI MUJAGOND            | B.Sc I sem | 36 | 40 | 76 | Pass |
| 45 | S2032453 | KEERTI                     | B.Sc I sem | 35 | 45 | 80 | Pass |
| 46 | S2032454 | KEERTI TARAPUR             | B.Sc I sem | 34 | 46 | 80 | Pass |

|    |          |                           |            |    |    |    |      |
|----|----------|---------------------------|------------|----|----|----|------|
| 47 | S2032455 | KRISHNA JAMBENAL          | B.Sc I sem | 37 | 40 | 37 | Pass |
| 48 | S2032456 | LAXMI                     | B.Sc I sem | 38 | 41 | 79 | Pass |
| 49 | S2032458 | MAHESH BASAVARAJ JAMBUGOL | B.Sc I sem | 39 | 42 | 81 | Pass |
| 50 | S2032459 | MALLANAGOUD C PATIL       | B.Sc I sem | 34 | 43 | 77 | Pass |
| 51 | S2032460 | MALLANAGOUDA              | B.Sc I sem | 35 | 45 | 80 | Pass |
| 52 | S2032461 | MALLIKARJUN SAMBHA        | B.Sc I sem | 33 | 46 | 79 | Pass |
| 53 | S2032462 | MEENAKSHI HACHHADAD       | B.Sc I sem | 35 | 47 | 82 | Pass |
| 54 | S2032464 | MOHAMMEDSOHEL SINDAGIKAR  | B.Sc I sem | 36 | 48 | 84 | Pass |
| 55 | S2032465 | MUSKAN JUMANAL            | B.Sc I sem | 39 | 41 | 80 | Pass |
| 56 | S2032466 | NADAF NAJIYA BABULAL      | B.Sc I sem | 34 | 42 | 76 | Pass |
| 57 | S2032467 | NAGESH THAKARU RATHOD     | B.Sc I sem | 40 | 42 | 82 | Pass |
| 58 | S2032468 | NAJMINBEGUM               | B.Sc I sem | 45 | 44 | 89 | Pass |
| 59 | S2032469 | NEELAMMA PATIL            | B.Sc I sem | 38 | 41 | 79 | Pass |
| 60 | S2032470 | NEELAMMA S MARSANALLI     | B.Sc I sem | 45 | 40 | 45 | Pass |
| 61 | S2032471 | PALLAVI GANGARAM RATHOD   | B.Sc I sem | 37 | 40 | 77 | Pass |
| 62 | S2032472 | PARASHURAM                | B.Sc I sem | 36 | 40 | 76 | Pass |
| 63 | S2032473 | PAVANKUMAR KANNOLLI       | B.Sc I sem | 35 | 41 | 76 | Pass |
| 64 | S2032474 | PAVITRA MAKASI            | B.Sc I sem | 36 | 41 | 77 | Pass |
| 65 | S2032475 | PRAKASH AMMAGOL           | B.Sc I sem | 38 | 45 | 83 | Pass |
| 66 | S2032476 | PRAKASHA DUNDAPPA JADAGI  | B.Sc I sem | 39 | 48 | 87 | Pass |
| 67 | S2032478 | PRASHANT HIREMATH         | B.Sc I sem | 35 | 46 | 81 | Pass |
| 68 | S2032479 | PRASHANT JERAKAR          | B.Sc I sem | 34 | 45 | 79 | Pass |
| 69 | S2032480 | PRASHANT VITTHAL GADADE   | B.Sc I sem | 37 | 45 | 82 | Pass |
| 70 | S2032481 | PRATIBHA HADAGALL         | B.Sc I sem | 36 | 41 | 77 | Pass |
| 71 | S2032482 | PREETI                    | B.Sc I sem | 34 | 42 | 76 | Pass |
| 72 | S2032483 | PREMA                     | B.Sc I sem | 31 | 42 | 73 | Pass |
| 73 | S2032484 | PREMKUMAR OLEKAR          | B.Sc I sem | 35 | 41 | 76 | Pass |
| 74 | S2032485 | PRIYADARSHINI SURPUR      | B.Sc I sem | 33 | 45 | 78 | Pass |

|     |          |                                 |            |    |    |    |      |
|-----|----------|---------------------------------|------------|----|----|----|------|
| 75  | S2032486 | PRIYANKA SAIBANNA<br>PADASALAGI | B.Sc I sem | 34 | 45 | 79 | Pass |
| 76  | S2032487 | RADHIKA RAMRAO KULAKARNI        | B.Sc I sem | 34 | 39 | 83 | Pass |
| 77  | S2032488 | RAHUL CHINCHOLI                 | B.Sc I sem | 36 | 45 | 81 | Pass |
| 78  | S2032489 | RAHUL RAMANNA GORANAL           | B.Sc I sem | 35 | 36 | 71 | Pass |
| 79  | S2032490 | RAJESHWARI                      | B.Sc I sem | 40 | 42 | 82 | Pass |
| 80  | S2032492 | RANAJEET I CHAVHAN              | B.Sc I sem | 45 | 44 | 89 | Pass |
| 81  | S2032494 | RAVITEJ PATIL                   | B.Sc I sem | 38 | 41 | 79 | Pass |
| 82  | S2032495 | RAYAPPAGOUDA POLICEBIRADAR      | B.Sc I sem | 45 | 40 | 85 | Pass |
| 83  | S2032497 | ROHIT PANDIT                    | B.Sc I sem | 37 | 40 | 77 | Pass |
| 84  | S2032498 | ROOPA CHANDRAM PUJARI           | B.Sc I sem | 36 | 40 | 76 | Pass |
| 85  | S2032499 | SACHIN RATHOD                   | B.Sc I sem | 35 | 41 | 76 | Pass |
| 86  | S2032500 | SAGAR                           | B.Sc I sem | 36 | 41 | 77 | Pass |
| 87  | S2032501 | SAHANA ARAVIND SANGAM           | B.Sc I sem | 38 | 45 | 83 | Pass |
| 88  | S2032503 | SANA UMARALI HASARAGUNDAGI      | B.Sc I sem | 39 | 48 | 87 | Pass |
| 89  | S2032504 | SANAKOUSAR H CHANDRAKI          | B.Sc I sem | 35 | 46 | 81 | Pass |
| 90  | S2032505 | SANGANAGOUD BIRADAR             | B.Sc I sem | 34 | 45 | 79 | Pass |
| 91  | S2032506 | SANGEETA H BAJANTRI             | B.Sc I sem | 37 | 45 | 72 | Pass |
| 92  | S2032509 | SANTOSH SHIVANAND KADAGOL       | B.Sc I sem | 36 | 41 | 77 | Pass |
| 93  | S2032511 | SAVITA M TALAWAR                | B.Sc I sem | 34 | 42 | 76 | Pass |
| 94  | S2032512 | SHAILA DODAMANI                 | B.Sc I sem | 31 | 42 | 73 | Pass |
| 95  | S2032513 | SHAMEER ABDULSAB TALIKOTI       | B.Sc I sem | 35 | 41 | 76 | Pass |
| 96  | S2032514 | SHANTABAI JADHAV                | B.Sc I sem | 33 | 45 | 78 | Pass |
| 97  | S2032515 | SHANTAGOUDA                     | B.Sc I sem | 40 | 42 | 82 | Pass |
| 98  | S2032516 | SHARANABASU C ARALAGUNDAGI      | B.Sc I sem | 45 | 44 | 89 | Pass |
| 99  | S2032517 | SHARAT GOVIND SURYAVANSHI       | B.Sc I sem | 38 | 41 | 79 | Pass |
| 100 | S2032518 | SHIVALEELA GORAGUNDAGI          | B.Sc I sem | 36 | 40 | 76 | Pass |
| 101 | S2032519 | SHIVANI RAMESH PATTAR           | B.Sc I sem | 36 | 36 | 72 | Pass |

|     |          |                                  |            |    |    |    |      |
|-----|----------|----------------------------------|------------|----|----|----|------|
| 102 | S2032520 | SHIVASHANKAR                     | B.Sc I sem | 35 | 40 | 75 | Pass |
| 103 | S2032521 | SHIVRAJKUMAR                     | B.Sc I sem | 38 | 45 | 83 | Pass |
| 104 | S2032522 | SHREEKANT MADARI                 | B.Sc I sem | 39 | 41 | 80 | Pass |
| 105 | S2032524 | SHWETA                           | B.Sc I sem | 34 | 42 | 76 | Pass |
| 106 | S2032525 | SHWETA                           | B.Sc I sem | 35 | 43 | 78 | Pass |
| 107 | S2032526 | SHWETA DEVANAGAV                 | B.Sc I sem | 36 | 47 | 83 | Pass |
| 108 | S2032527 | SHWETA PATIL                     | B.Sc I sem | 34 | 48 | 82 | Pass |
| 109 | S2032528 | SIDDAMMA PHAKEERAPPA<br>VALIKAR  | B.Sc I sem | 31 | 41 | 72 | Pass |
| 110 | S2032529 | SIDDANAGOUD SALOTAGI             | B.Sc I sem | 35 | 45 | 80 | Pass |
| 111 | S2032530 | SIDDARTH TALLOLI                 | B.Sc I sem | 37 | 40 | 77 | Pass |
| 112 | S2032531 | SIDDHARAM G BADIGER              | B.Sc I sem | 36 | 40 | 76 | Pass |
| 113 | S2032532 | SNEHA S NADAKUR                  | B.Sc I sem | 35 | 41 | 76 | Pass |
| 114 | S2032535 | SOUMYA                           | B.Sc I sem | 36 | 41 | 77 | Pass |
| 115 | S2032537 | SUHANA H                         | B.Sc I sem | 38 | 45 | 83 | Pass |
| 116 | S2032538 | SUNIL                            | B.Sc I sem | 39 | 48 | 87 | Pass |
| 117 | S2032539 | SUPRIYA                          | B.Sc I sem | 35 | 46 | 81 | Pass |
| 118 | S2032540 | SUPRIYA GAYAKAWAD                | B.Sc I sem | 34 | 45 | 79 | Pass |
| 119 | S2032541 | SWATI SHIVANAND HARNAL           | B.Sc I sem | 37 | 45 | 82 | Pass |
| 120 | S2032543 | ULFATH SALEEM BALAGANUR          | B.Sc I sem | 37 | 40 | 77 | Pass |
| 121 | S2032544 | V VIDYAPRASAD                    | B.Sc I sem | 36 | 40 | 76 | Pass |
| 122 | S2032545 | VASUDEV                          | B.Sc I sem | 35 | 41 | 76 | Pass |
| 123 | S2032546 | VIDHYASHREE HADAPAD              | B.Sc I sem | 36 | 41 | 77 | Pass |
| 124 | S2032548 | VIJAYALAXMI SAYABANNA<br>POOJARI | B.Sc I sem | 38 | 45 | 83 | Pass |
| 125 | S2032549 | VINOD VIJAYKUMAR DESAI           | B.Sc I sem | 38 | 41 | 79 | Pass |
| 126 | S2032550 | VISHAL                           | B.Sc I sem | 35 | 42 | 77 | Pass |
| 127 | S2032551 | VISHWANATH DATTATREY<br>PATTAR   | B.Sc I sem | 36 | 41 | 77 | Pass |
| 128 | S2032552 | VISHWANATH KUMBAR                | B.Sc I sem | 39 | 43 | 82 | Pass |
| 129 | S2032553 | VISHWANATH YATNOOR               | B.Sc I sem | 31 | 44 | 75 | Pass |

|     |          |                     |            |    |    |    |      |
|-----|----------|---------------------|------------|----|----|----|------|
| 130 | S2032554 | YUVARAJ BAGALI      | B.Sc I sem | 37 | 40 | 77 | Pass |
| 131 | S2035651 | NIYA ANJUM HOSAMANI | B.Sc I sem | 36 | 40 | 76 | Pass |
| 132 | S2016277 | SHREELAXMI B KALLUR | B.Sc I sem | 35 | 41 | 76 | Pass |
| 133 | S2090077 | RAVI BADIGER        | B.Sc I sem | 36 | 41 | 77 | Pass |
| 134 | S2090012 | KAVERI ITAGATTI     | B.Sc I sem | 38 | 45 | 83 | Pass |
| 135 | S2028695 | PRAJWAL M           | B.Sc I sem | 39 | 48 | 87 | Pass |

*Suvaralaxmi*  
H.O.D.  
Dept. of Chemistry  
G. P. Porwal Arts & Commerce, &  
V. V. Salimath Science College  
SINDAGI - 586 122

*me*  
Co-ordinator IQAC  
G. P. Porwal Arts, Comm & V. V. Salimath  
Science College, SINDAGI-586122, Chikmagalur

*D*  
Principal,  
G.P.Porwal Arts, Comm. &  
V.V.Salimath Sc. College  
& P. G. Centre, SINDAGI

SPVVSS

G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE COLLEGE



SPVVSS

**G. P. Porwal Arts, Commerce & V. V. Sallmath Science  
College, SINDGI- 586 128**

Dist: Vijayapur

State: Karnataka

(Accredited with 'B' Grade by NAAC)

(Affiliated to Rani Channamma University, Belagavi)

IQAC Initiative

DEPARTMENT OF CHEMISTRY

**CERTIFICATE**

This is to certify that Kumar/ Kumari.....  
of B.Sc. has successfully completed Certificate Course on “ **SOIL ANALYSIS** ” during the  
year.....

HOD

Coordinator IQAC

Principal



S.P.V.V.S'S

**G.P.PORWAL ARTS, COMMERCE AND V.V.SALIMATH SCIENCE  
COLLEGE, SINDGI – 586 128** (Dist : Vijayapur. Karnataka State)

Affiliated to Rani Channamma University, Belagavi

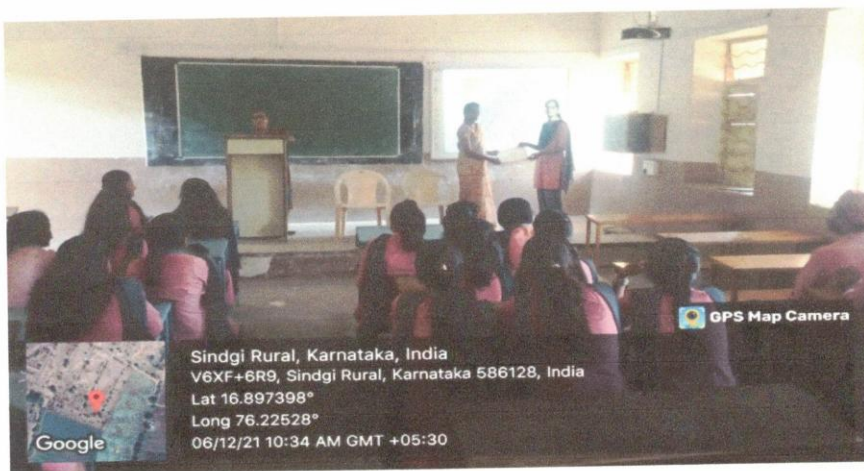
Accredited at 'B' Grade (2.42 CGPA) by NAAC

E-mail: [gppprincipal@gmail.com](mailto:gppprincipal@gmail.com) Web: [www.gppvvs.ac.in](http://www.gppvvs.ac.in) Ph: 08488-221244 Mobile : 9611032604

## DEPARTMENT OF CHEMISTRY

### SOIL ANALYSIS

VALEDICTORY OF CERTIFICATE COURSE: 2020-21



*Mangalika*  
H.O.D.  
Dept. of Chemistry  
G. P. Porwal Arts & Commerce &  
V. V. Salimath Science College  
SINDGI-586128.

*Usha*  
Coordinator IQA  
G. P. PORWAL ARTS, C  
V. V. SALIMATH Sc. Colle  
SINDGI-586128.

*D*  
Principal,  
G. P. Porwal Arts, Comm &  
V. V. Salimath Sc. College  
SINDGI-586128. College Code: 1