B.L.D.E. ASSOCIATION'S S.B ARTS AND K.C.P SCIENCE COLLEGE, VIJAYAPUR

DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN WATER AND SOIL TESTING 2017-18

S.B.Arts and K.C.P.Science College Vijayapur <u>Dept of Chemistry</u>

NOTICE

Date: 28/06/2018

All the students of COP Course in Soil and water analysis are hereby informed that, interested students can take admission to one year soil and water analysis certificate course. Students can contact Dr. M.S. Yadawe on or before 23/07/2017.

IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

HOHead
Dept. of Chemistry
SB Arts & KCP Sc. College.
Vijayapur.

Principal,
S. B. Arts & KCP Sc. College.
Bijapur

B.L.D.E. Association's

S.B. Arts and K.C.P. Science College, Vijayapur-586103

Department of Chemistry NOTICE

Date: 01/08/2017

It is here by informed Chemistry students who registered the COP course to attend the classes on 06/08/2017.

S.B.Arts & K.C.P. Science College, Vijayapur. Dept. of Chemistry
SB Arts & KCP Sc. College,
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SHRI B. M. PATIL ROAD (Solapur Road), VIJAYAPUR ACCREDITED at 'A' Grade in 3rd Cycle by NAAC

Phone: (08352) - 261766. (08352) 262770 Extn. 2223, 2224

Fax: 08352 - 261766 E-mail: bideasbkcp@gmail.com Web: www.bldeasbkcp.org



"WATER AND SOIL TESTING"

CARRER ORIENTED PROGRAMME (C.O.P)

DEPARTMENT OF CHEMISTRY

NOTICE

All the students of B.Sc Chemistry who have enrolled their names for COP Course in "WATER AND SOIL TESTING" are hereby informed to attend the classes to be held on the below dates

| | Paper | DAY | TIME |
|-----------|----------|--------------------------------------|--------------|
| Theory | Paper-I | MONDAY, TUESDAY WEDNESDAY, FRIDAY | 5.00-6.00PM |
| THEO. | Paper-II | | 12.00-4.00PM |
| Practical | Paper-I | SUNDAY | 12.00-4.00FW |
| Flactica | Paper-II | | |

Head Dept. of Chemistry SB Arts & KCP Sc. College Viiavapur.

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VIJAYAPUR.

CERTIFICATE COURSE IN WATER AND SOIL TESTING

Syllabus

Paper- I (Water Testing)

Chapter - I:

Introduction, Sources of water, Quality of natural water, Main quality characteristics of water, Effect of water on rocks and minerals. (15 hrs)

Chapter - II:

Water pollution: Definition, water pollutants, Types of water pollution, chemical pollution of water, ground water pollution, harmful effects of water pollution, factors affecting surface water, dangers of water fluoridation. (25 hrs)

Chapter - III:

Sources of water pollution, sewage and domestic water, Industrial effluents, agricultural discharge, fertilizers, toxic metals, siltation, thermal pollutants. (25 hrs)

Chapter - IV:

Water sampling techniques.

(10 hrs)Total = 75 hours

Paper- II (Soil Testing)

Chapter - I:

Introduction: components of soil, soil mineralogy, soil classification, physical properties of soil, soil taxonomy.

(15 hrs)

Chapter - II:

Soil chemistry: chemical composition of soil, soil organic matter-Carbon and Nitrogen ir soil organic matter, status of soil, beneficial role of organic matter, fractionation of soil organic matter and humus.

(25 hrs)

Chapter - III:

Soil colloids, soil clays, organic soil colloids.

Ion exchange phenomena: ion exchange capacity, ion exchange formulations, effect o exchangeable cations on soil properties, some uses of ion exchange data, soil reactions, meaning of soil pH, soil acidity, soil alkalinity, soil reaction and plant growth, nutrient transformation and fixation, soil pesticide interaction.

(25 hrs)

Chapter - IV:

Soil sampling and preparation of soil sample for analysis.

(10 hrs)

Total = 75 hours

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PRACTICALS

Practical - I (Water Testing)

- Determination of turbidity
- Determination of pH of water using pH meter and potentiometer. 2.
- Determination of conductance of water.
- Determination of alkalinity. 4.
- Determination of acidity. 5.
- Determination of permanent hardness of water (EDTA method) 6.
- Estimation of calcium by volumetric method. 7.
- Estimation of magnesium by volumetric method. 8.
- Determination of BOD. 9
- Determination of COD 10.

Practical - II (Soil Testing)

- Determination of electrical conductivity of a soil sample. 1.
- Determination of pH of a soil sample. 2.
- To determine salinity and alkalinity of soil sample. 3.
- Determination of available sulphur in soils by turbidometry. 4.
- Determination of organic Carbon in soils colorimetrically.
- Determination of available boron in soil spectrophotometrically. 6.
- Determination of copper in soil spectrophotometrically. 7.
- Determination of bulk density of soil.
- Estimation of amount of nitrogen present in a sample of soil. 9.
- Determination of phosphate (total Inorganic&Organic) present in a sample of soil. 10.

Certificate Course FIELD / PROJECT WORK:

Collection of water from different sources - under ground water, spring and well water, Rivers, Tanks, Industrial waste water (technique of sampling)

Collection samples from irrigated, non-irrigated and barren lands (technique of sampling).

(1 credit = 15 hours) Structure of teaching programme:

| Structure | Theory Paper-I and II | Practicals I and II | Field/project work | |
|-----------------|-----------------------------|-----------------------------|-----------------------------|------------|
| Certificate | 4 hrs/week Total 10 credits | 4 hrs/week Total 10 credits | 4 hrs/week Total 10 credits | 30 credits |
| Course Total | 150 hours | 150 hours | 150 hours | 450 hours |

Pattern of Examination: Certificate Course:

| Pattern of Exami. Event | Duration of Exam. | Marks | Internal | Total | Minimum passing marks |
|--------------------------|-------------------|----------|----------|-----------|-----------------------|
| Y (T) | 3 hours | 80 marks | 20 marks | 100 marks | 40 marks |
| Paper - I Theory | 3 hours | 80 marks | 20 marks | 100 marks | 40 marks |
| Paper - II Theory | 4 hours | 80 marks | 20 marks | 100 marks | 40 marks |
| Practical – I | 4 hours | 80 marks | 20 marks | 100 marks | 40 marks |
| Practical – II | | | | 100 marks | 40 marks |
| Field/Project Work | | | Total | 500 marks | 200 marks |

Dept. of Chemistry SB Arts & KCP Sc. College, Vijayapur.

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LIST OF ADMITTED STUDENTS TO COP COURSE FOR THE ACADEMIC YEAR 2017-18

| SI No | Name of the Student | Signature of the students |
|-------|------------------------|---------------------------|
| 1. | GURURAJ.C.HIREMATH | Gaoil. |
| 2. | IRAPPA.KARIGAR | TR. |
| 3. | RAJAKUMAR.BHAIRASHETTI | 3 |
| 4. | POOJA.G.HADAPAD | Parise |
| 5. | ARATI.S.DUDAGI | Manu |
| 6. | REKHA.MALI | R |
| 7. | DARMARAJ.HALLI | Dr.Halli |
| 8. | ROHINI. | Pohini |
| 9. | VARSHA.S.TOPI | 1 aresia |
| 10. | PRATIMA.B.HANJI | (Dait. |
| 11. | BIBI A YESHA.BEVANOOR | Rib |
| 12. | SHWETA.S.RUGI | Eweta- |
| 13. | PRIYA.C.GABASAVALAGI | (P.C; G. |
| 14. | VEENAKUMARI | Veina |
| 15. | ANIL.GANI | Tail - |
| 16. | AISHWARYA.N.SHETTI | 2 |
| 17. | POORNIMA.KESTI | Lest |
| 18. | BIBIZAHERA.BEVANUR | Addi |
| 19. | VIJEETA.L.THORVI | OT. |
| 20. | RIYA.SHETTI | Roya |
| 21. | DEEPA.M.BAGALI | Louna. |
| 22. | LAXMI.GANTI | La |
| 23. | AJEETA.B.DHANAWADE | Overta_ |
| 24. | KASHINATH.M.BAGALI | K.M.B. |
| 25. | SUSHMITA.A.T | Susa |

| 26. | SHOBHA.M.YALAGI | hoto: |
|-----|----------------------|--------|
| 27. | BHAGYA.A.GUBBI | 18.90 |
| 28. | SUJATA.M.KAMBASHETTI | S.M.K. |
| 29. | SUDHARANI.B.KENGANAL | Sunt |
| 30. | SUSMITA.A.TALAWAR | Suit |

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ADD-ON COURSE:CERTIFICATE COURCE IN SOIL AND WATER TESTING STUDENTS ATTENDANCE REGISTER

Certificate Course in Soil and Water Analysis Student List(Theory paper I)2017-2018.

| -1 0 | Name of the students | 5 12 17 11 12 12 18 12 19 12 25 17 18 1 9 1 8 21 23 23 1 30 1 19 20 12 12 3 18 |
|-------|------------------------|--|
| Sl.no | GURURAJ.C.HIREMATH | क्षा में किया का |
| 2 | IRAPPA.KARIGAR | B B B B B B B B B B B B B B B B B B B |
| 3 | RAJAKUMAR.BHAIRASHETTI | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
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| 5 | ARATI.S.DUDAGI | of on |
| 6 | REKHA.MALI | BY BY BY BY BY TO BY |
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| 12 | SHWETA.S.RUGI | the state of the s |
| 13 | PRIYA.C.GABASAVALAGI | (P.C.G. (P.C.G.R.C.G.R.C.G.R.C.G.R.C.R.C.R.C.R.C.G.R.G.R |
| 14 | VEENAKUMARI | Here Vers Vers Vers Vers Vers Vers Vers V |
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| 17 | POORNIMA.KESTI | Lieb Kind Lost Ab Ab Kent Kind Kent Kent Ab Kind Kent Kent Kent Kent |

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| 20 | RIYA.SHETTI | Olya Orga Orga Orga Orga Orga Orga Orga Org |
| 21 | DEEPA.M.BAGALI | They Dorp Day Dup Was Dam Dey Day Dep Dep Death At Deed Duy Death Death |
| 22 | LAXMI.GANTI | dando Se do da da Ab da |
| 23 | AJEETA.B.DHANAWADE | Meet a Keen there here there as their free few few few fresh free free here here here here here |
| 24 | KASHINATH.M.BAGALI | KW WKW KW KW KW KW KW KW |
| 25 | SUSHMITA.A.T | (CU2) (CU2) (CU2) (SU2) (SU2) (CU2) (SU2) A) (SU2) (CU2) (CU2) (CU2) (CU2) (CU2) (CU2) (CU2) |
| 26 | SHOBHA.M.YALAGI | Robe Rode Robe Robe Robe Robe Robe Robe Robe Ab Kado Robe State State |
| 27 | BHAGYA.A.GUBBI | AD KON END AND END END END END END END END END AND END |
| 28 | SUJATA.M.KAMBASHETTI | S.m.K. |
| 29 | SUDHARANI.B.KENGANAL | C. J. Ab S.J. Ab Sult J. S. Sul Sul Sul Sul Sul Sult Sult Sult |
| 30 | SUSMITA.A.TALAWAR | From Set Sea Sea Sun Sun Sun Sun Sun Sea |

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| Sl.no | Name of the students | 1348 19 3 20 26/2 27/3 24 3 4 9 4 10 4 16 4 17/4 Ab 33/4 18 28 4 16 6 17 91 |
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| 1 | GURURAJ.C.HIREMATH | वर्ष केली केली हाली होता होता होता पर केली होता होता होता होता है |
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| 14 | VEENAKUMARI | Very Very Very Very Very Very Very Very |
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| 27 | BHAGYA.A.GUBBI | END RODE OF THE PROPERTY OF THE PARTY OF THE PORT OF THE PARTY SONE |
| 28 | SUJATA.M.KAMBASHETTI | Sank sank sank sank sank sank sank sank s |
| 29 | SUDHARANI.B.KENGANAL | Ab Ab Cal Cal Ab Cal La Salad |
| 30 | SUSMITA.A.TALAWAR | But find but but but about the sea we sea the |

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| Sl.no | Name of the students | 14 00 00 10 10 10 10 10 10 10 10 10 10 10 |
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| 1 | GURURAJ.C.HIREMATH | 28 6 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 |
| 2 | IRAPPA.KARIGAR | grad gray Ab gray gray gray gray gray gray gray gray |
| 3 | RAJAKUMAR.BHAIRASHETTI | R R R R R R R R R R R R R R R R R R R |
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| 12 | SHWETA.S.RUGI | For the for Son |
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| 15 | ANIL.GANI | Can't dril and this can dril and anil anil anil anil anil anil anil anil |
| 16 | AISHWARYA.N.SHETTI | ALL AND ALL ALL ALL ALL ALL ALL ALL ALL ALL AL |
| 17 | POORNIMA.KESTI | Ab for head with feel feel and Ab feel feel feel feel feel feel feel |
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| 19 | VIJEETA.L.THORVI | Or At Or Or |
| 20 | RIYA.SHETTI | By Cy Cy Ab Cly Cy Cly Chy Quy Quy Quy Quy Quy Quy Quy Quy Quy Qu |
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| 24 | KASHINATH.M.BAGALI | KMBKMBKMBKMB KMB KMB KMB KMBKMBKMBKMB KMB |

| 25 | SUSHMITA.A.T | Ato (Sur) Sur) Sur) Sur) Sur) Sur) Sur) (Sur) (Sur) (Sur) AD (Sur) (Sur) (Sur) (Sur) |
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| 26 | SHOBHA.M.YALAGI | Rotal de Colo Redo Redo Redo or Rota Rotal Cate Colo Redo AD Colo |
| 27 | BHAGYA.A.GUBBI | कि हो हिन |
| 28 | SUJATA.M.KAMBASHETTI | S. m. X S. M. |
| 29 | SUDHARANI.B.KENGANAL | But Cut But as Part at Sur Sel Sol Sol But But Sul Sol Sur Sur |
| 30 | SUSMITA.A.TALAWAR | an But But But But But But But But But My on Suit |

Head
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|-------|------------------------|--|
| Sl.no | Name of the students | 188 308 9 13 15 5 2 812 13 3 3 5 20 20 20 20 20 20 20 20 20 20 20 20 20 |
| 1 | GURURAJ.C.HIREMATH | बार कार मार मार किया किया किया है किया |
| 2 | IRAPPA.KARIGAR | BBBBADBB ADBB BBBBB |
| 3 | RAJAKUMAR.BHAIRASHETTI | ADERREE E E E E E E E E |
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| 9 | VARSHA.S.TOPI | At peute Jose land Jack best ban Jack bow lover best base la set best burgarde Varel |
| 10 | PRATIMA.B.HANJI | But But But But But But Ab Mo But But But Ab Part But But But |
| 11 | BIBI A YESHA.BEVANOOR | Bilin Bilin Bild As Bilo Bilo As Bilo Bilo Bilo Bilo Bilo Bilo Bilo Bilo |
| 12 | SHWETA.S.RUGI | An Ma Su Su In Mars Sa Se Se Se Se Se Se Se Se |
| 13 | PRIYA.C.GABASAVALAGI | Trees few frees, receive confecution free frees frees frees frees frees frees frees |
| 14 | VEENAKUMARI | Veena Veena Veena Ho Veena |
| 15 | ANILGANI | and |
| 16 | AISHWARYA.N.SHETTI | AD |
| 17 | POORNIMA.KESTI | X sh Ato Xax Xax Xah Xah (20) Ato Kan Xah Xah Xah Xah Xah |
| 18 | BIBIZAHERA.BEVANUR | But |
| 19 | VIJEETA.L.THORVI | Ox Ob Ox Ab VIVE Q |
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| 21 | DEEPA.M.BAGALI | Deer Dug Don Dan Ber Days Days Baro Bay Drags Ab Day Praga Days Days |
| 22 | LAXMI.GANTI | 1 de |

| 23 | AJEETA.B.DHANAWADE | AD there from their feers there applied their |
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| 24 | KASHINATH.M.BAGALI | KMB KMB KMB KMB KMB KMB AD KMB KMB KMB KMB KMB KMB KMB KMB KMB |
| 25 | SUSHMITA.A.T | Ab Guy Bur Bur Bur Gur Gur Gur Gur Gur Gur Gur Gur Gur G |
| 26 | SHOBHA.M.YALAGI | The stop of the con the stop of the sound of the sound of the sound soun |
| 27 | BHAGYA.A.GUBBI | ENGRAD EN ENDERD ENDERD ENDERD AL END ENDERD |
| 28 | SUJATA.M.KAMBASHETTI | Ab Smiksmiksmiksmiksmiksmiksmiksmik Ab smiksmik smik |
| 29 | SUDHARANI.B.KENGANAL | But Put Ato Sut Suf End Sub Sub Sud Sud Sud Sup Sup Sup Sup |
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ADD-ON COURSE:CERTIFICATE COURCE IN SOIL AND WATER TESTING STUDENTS ATTENDANCE REGISTER

Certificate Course in Soil and Water Analysis Student List(Theory paper II)2017-2018.

| il.no | Name of the students | 16 6 17 6 13 6 26 30 5/7 7/2 7 10 7 19 7 21 7 26 7 36 7 2 0 18 9 8 15 |
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| 1 | GURURALC.HIREMATH | Com AB Gray AB Gray from from from from from from from from |
| 2 | IRAPPA,KARIGAR | B. B |
| 3 | RAJAKUMAR.BHAIRASHETTI | R R B R R M R E R R M R E E E E |
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| 5 | ARATI.S.DUDAGI | adda Haaaaaa taaa |
| 6 | REKHA.MALI | Que Bu Que Bu Que Que Que Bu Que Que Que Que Que Que Que Que Que Qu |
| 7 | DARMARAJ.HALLI | P DAD D D D D D P P B B B B B B B B B B B B |
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| 9 | VARSHA.S.TOPI | Your ban but face for but been been been been and and see the been and seems |
| 10 | PRATIMA.B.HANJI | But |
| 11 | BIBI A YESHA.BEVANOOR | Bili Blo Blo Blo Blo Blo Blo Br Blo As So Br Do So har |
| 12 | SHWETA.S.RUGI | \$ 5-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8 |
| 13 | PRIYA.C.GABASAVALAGI | led Erpperperp AB (or productioners to the fire fire bree bec |
| 14 | VEENAKUMARI | Viena Pho Verna Ve |
| 15 | ANIL.GANI | and and and and and are fine to the time of the time |
| 16 | AISHWARYA.N.SHETTI | 一 医阿尔尔斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯 |
| 17 | POORNIMA.KESTI | you had her for Lot Lot Xot Xot the Lot Lot Lot to the |

| 18 | BIBIZAHERA.BEVANUR | Rib Bib Bib Bib Bib Bib Bib Bib Bib Bib B |
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| 19 | VIJEETA.L.THORVI | OT AR OF CH CHOT OF OF CHOT OF CH CH CH CH CH. |
| 20 | RIYA.SHETTI | Our Dur Buy Org By Bug Bux Dy Cy By By By By By By Elys |
| 21 | DEEPA.M.BAGALI | Dens Con Con Con Ders Ders Ders Ders Ders Ders Ders Ders |
| 22 | LAXMI.GANTI | de Los de des des des des des des des des des |
| 23 | AJEETA.B.DHANAWADE | Apata Hight That a first of the Kingle through their through their through their through their through |
| 24 | KASHINATH.M.BAGALI | KMBKMBKMBKMBKMBKMBKMBKMB AB KMBKMB-AB KMBKMBKMBKMB. |
| 25 | SUSHMITA.A.T | (SUR) SURY SURY (SURY (SURY SURY SURY (SURY SURY SURY SURY SURY SURY SURY SURY |
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| 27 | BHAGYA.A.GUBBI | BAR (AP) (AP) (AP) (AP) (AP) (AP) (AP) (AP) |
| 28 | SUJATA.M.KAMBASHETTI | S.M. E. S.M. E |
| 29 | SUDHARANI.B.KENGANAL | Sur Sur Alb Ab Su |
| 30 | SUSMITA.A.TALAWAR | Sur Sur Sur Sur Sur Ab |

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Head
Dept. of Chemistry
SB Arts & KCP Sc. College,
Vijayapur.

S.B.Arts & K.C.P.Science College, Vijayapur.

| SI.no | Name of the students | 118 168 18 20 8 1 9 13 9 15 9 56 8 13 15/0 2000 22 12 27 150 0 76/6 |
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| 1 | GURURAJ.C.HIREMATH | 10 10 10 10 10 |
| 2 | IRAPPA.KARIGAR | 图 等 等 等 等 等 等 等 等 等 第 第 第 第 第 |
| 3 | RAJAKUMAR.BHAIRASHETTI | CA C |
| 4 | POOJA.G.HADAPAD | |
| 5 | ARATI.S.DUDAGI | The che destablish the the destable the the 188 deeds de |
| 6 | REKHA.MALI | On the oth of the oth oth of the oth oth of |
| 7 | DARMARAJ.HALLI | BRABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB |
| 8 | ROHINI. | EN KNAW KNAW KNAY KNAY KNAY KNAY KNAY KNAY KNAY KNAY |
| 9 | VARSHA.S.TOPI | DODE DODE DE MARIO DE MARIO DE DE |
| 10 | PRATIMA.B.HANJI | Various last ber ber ber Ber Der ber ber ber ber ber ber ber ber ber b |
| 11 | BIBI A YESHA.BEVANOOR | 0 0000000000000000000000000000000000000 |
| 12 | SHWETA.S.RUGI | Bib Bib Bib Bib Bib Ab Bib AB Bir Ab Bir Ribi Ribi Ribi Ribi Ribi Ab Bib |
| 13 | PRIYA.C.GABASAVALAGI | Rep Representation fragilitation of the fire property of the fire file |
| 14 | VEENAKUMARI | March and All Househarders All Hors Janders Jan |
| 15 | ANIL.GANI | Onil Onil Onil Onil Anil Anil Anil Onil Onil Onil Onil Onil Onil Onil O |
| 16 | AISHWARYA.N.SHETTI | AND |
| 17 | POORNIMA.KESTI | AB Bat Kaplant Bat Lat Lat Lat Lat Lat Lat Lat Lat Lat L |
| 18 | BIBIZAHERA.BEVANUR | Bab (Bb Bb Bb Bb Bb Bb Bb Bb Ab Bb Bb Bb Bb Bb Bb Bb |
| 19 | VIJEETA.L.THORVI | G G G G G G G G G G G G G G G G G G G |
| 20 | RIYA.SHETTI | By B |
| 21 | DEEPA.M.BAGALI | Techo Golfford Ford Dans Dada Dolffordo VR Goldford Pola gods John John Sola |
| 22 | LAXMI.GANTI | all de |
| 23 | AJEETA.B.DHANAWADE | Hate don't have have hardhar AB Apr Agar Har Agar Agar April April Agar |
| 24 | KASHINATH.M.BAGALI | kno kno kno kno kno kno kno kno kno AB B kno kno kno kno kno kno |

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| 25 | SUSHMITA.A.T | At Can (Sun (Sun (Sun (Sun (Sun (Sun (Sun (Su |
| 26 | SHOBHA.M.YALAGI | har from the financial state for the hour for the form to the form |
| 27 | BHAGYA.A.GUBBI | BOY |
| 28 | SUJATA.M.KAMBASHETTI | S.M. F. S.M. AB AB S.M. S.M. S.M. S.M. S.M. S.M. S.M. S.M |
| 29 | SUDHARANI.B.KENGANAL | Sul |
| 30 | SUSMITA.A.TALAWAR | Sent of Sun Angel to sun sun son son po and son |

Head

Dept. of Chemistry

SB Arts & KCP Sc. College,

Vijayapur.

IQAC, Co-ordinator S.B.Arts & K.C.P.Science College, Vijayapur.

| Sl.no | Name of the students | 12 1 10/1 18 31 2 1/2 1/2 1/2 1/2 2/2 1/2 3/2 02 2-12 1/3 19/3 1/4/3 |
|-------|------------------------|--|
| 1 | GURURAJ.C.HIREMATH | 1 |
| 2 | IRAPPA.KARIGAR | |
| 3 | RAJAKUMAR.BHAIRASHETTI | REER SERVER |
| 4 | POOJA.G.HADAPAD | CARCARCA CACCARACTOR CONTRACTOR C |
| 5 | ARATI.S.DUDAGI | CAR CAR CAL CAR |
| 6 | REKHA.MALI | As CAT CAN AS AS CAN |
| 7 | DARMARAJ.HALLI | BUBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB |
| 8 | ROHINI. | |
| 9 | VARSHA.S.TOPI | |
| 10 | PRATIMA.B.HANJI | But Path But Path Path Part Part Part Part Part Part Part Part |
| 11 | BIBI A YESHA.BEVANOOR | 0 0 0 0 0 0 0 0 0 0 0 |
| 12 | SHWETA.S.RUGI | 8- 8 0- 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 |
| 13 | PRIYA.C.GABASAVALAGI | The second secon |
| 14 | VEENAKUMARI | Nowaran Non Jaw Jaw Jaw Jaw Jaw Jaw Jare 1 Jan Jan Jaw Jaw Jaw Jawa Jawa Jawa Jawa |
| 15 | ANIL.GANI | Aut of Antibail and Alla Valla |
| 16 | AISHWARYA.N.SHETTI | all |
| 17 | POORNIMA.KESTI | The state of the s |
| 18 | BIBIZAHERA.BEVANUR | Blood Story and Story and Story |
| 19 | VIJEETA.L.THORVI | Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q |
| 20 | RIYA.SHETTI | |
| 21 | DEEPA.M.BAGALI | Date Days Mr Rate Dard Dander of Bry By By By By By By By By |
| 22 | LAXMI.GANTI | do d |
| 23 | AJEETA.B.DHANAWADE | |
| 24 | KASHINATH.M.BAGALI | Afecto Rivero Rivero Afero M. Afero |

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|----|----------------------|---|
| 25 | SUSHMITA.A.T | AB (Sur) Sur (Sur) |
| 26 | SHOBHA.M.YALAGI | Rose Roberts Rober Robertschaft Stole Bola Bola Bole fall Bole |
| 27 | BHAGYA.A.GUBBI | EAS PAS PAS PAS PAS PAS PAS PAS PAS PAS P |
| 28 | SUJATA.M.KAMBASHETTI | S.m.K.S.m.K.S.m.K.S.m.K.S.m.K.S.m.K.S.m.K.S.m.K.S.m.K. S.m.K. S.m.K. S.m.K. S.m.K. S.m.K. S.m.K. S.m.K. |
| 29 | SUDHARANI.B.KENGANAL | Suit on Sun Sul |
| 30 | SUSMITA.A.TALAWAR | Sail Sail Sail Said Said Said Sail Sail Said Said Said Said Said Said Said Said |

Head
Dept. of Chemistry
SB Arts & KCP Sc. College,
Vijayapur.

IQAC, Co-ordinator S.B.Arts & K.C.P.Science College, Vijayapur.

| Sl.no | Name of the students | 16321323 4464114134184204234 224454 264277 2844 |
|-------|------------------------|---|
| 1 | GURURAJ.C.HIREMATH | कर्त भारती तेन |
| 2 | IRAPPA.KARIGAR | G G G G G G G G G G G G G G G G G G G |
| 3 | RAJAKUMAR.BHAIRASHETTI | ERNERER BUSERREE |
| 4 | POOJA.G.HADAPAD | Ces c |
| 5 | ARATI.S.DUDAGI | an ah |
| 6 | REKHA.MALI | BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB |
| 7 | DARMARAJ.HALLI | BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB |
| 8 | ROHINI. | OL OLAR OLD OLD OLD OLD OLD OLD OLD OLD OLD |
| 9 | VARSHA.S.TOPI | but low box box bow Jacon been born been boundered any been san back been been been been |
| 10 | PRATIMA.B.HANJI | Bir Part But Part Boir AB Bair Bair But Bair But Bair Bair Bair Bair Bair |
| 11 | BIBI A YESHA.BEVANOOR | Ris Blo Blo Bis |
| 12 | SHWETA.S.RUGI | En & No Se Se Se Se Se AND Se Se AND Se Se Se |
| 13 | PRIYA.C.GABASAVALAGI | (P.C. 4 R.C. 4 P.C. 4 P.C. 4 P.C. 8 C. 4 P.C. 4 |
| 14 | VEENAKUMARI | bus her love bur har lander bore love leve leve ber ber leve to Van |
| 15 | ANIL.GANI | and |
| 16 | AISHWARYA.N.SHETTI | al a |
| 17 | POORNIMA.KESTI | Qut Kat Rat Kat Kat Kat Kat Kat Kat Kat Kat Rat Rat Rat Rat |
| 18 | BIBIZAHERA.BEVANUR | Bir Bir & Blo Blir Bir Bir Bir Bir Bir Bir Bir Bir Bir B |
| 19 | VIJEETA.L.THORVI | Or AR Or |
| 20 | RIYA.SHETTI | By By No Dry By Dy Dy By Brook By By By By By By |
| 21 | DEEPA.M.BAGALI | Dodo Jahrh Bale Daha Daha Baha Bah Barb Och Dorlo Por la 100 100 100 |
| 22 | LAXMI.GANTI | der |
| 23 | AJEETA.B.DHANAWADE | Hora there My there there there there was no to the to the day of one there there there |
| 24 | KASHINATH.M.BAGALI | KWB KWPKWPKWPKWPKWPKWPKWPKWPKWPKWPKWPKWPKWPK |

| 25 | SUSHMITA.A.T | Sur |
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| 26 | SHOBHA.M.YALAGI | AND AND STORED ROLL NO DE BOLL ROLL AND STORE STORE STORE STORE STORED |
| 27 | BHAGYA.A.GUBBI | (8.69) (8.69) (8.69) (8.69) (8.69) (8.69) (8.69) (8.69) (8.69) (8.69) (8.69) |
| 28 | SUJATA.M.KAMBASHETTI | S.m.K |
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| 30 | SUSMITA.A.TALAWAR | Sur La Sur Cur Sur Sur But Pro But Lat Sur Sur Sur Sur |

Head
Dept. of Chemistry
SB Arts & KCP Sc. College,
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IGAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur,

B.L.D.E.Association's

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S.B.Arts and K.C.P.Science College ,Bijapur(Karnataka)

ADD-ON COURSE:CERTIFICATE COURCE IN SOIL AND WATER TESTING STUDENTS PRACTICAL ATTENDANCE REGISTER

Student list (2017-18)

| | | W ^x |
|-------|------------------------|--|
| Sl.no | Name of the students | 20/6 26/24/317 72 10-7 12 127 18 25/7 31/7 1/8 1/8 5/8/19/19 |
| 1 | GURURAJ.C.HIREMATH | As you gain gon gon gon gon gon gon gon gon gon go |
| 2 | IRAPPA.KARIGAR | O D D R D D D D D D D D D D D D D D D D |
| 3 | RAJAKUMAR.BHAIRASHETTI | RIFELL ABÉRERE |
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| 5 | ARATI.S.DUDAGI | on the chan of an an of an an an an an an an |
| 6 | REKHA.MALI | OF |
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| 9 | VARSHA.S.TOPI | bunden best B Vare Vary Bur Vara Vara Vare Vare Vare Vare Vare Var |
| 10 | PRATIMA.B.HANJI | Part Book Book Book Book Book Book Book Boo |
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| 12 | SHWETA.S.RUGI | AB & & & & & & & & & & & & & & & & & & & |
| 13 | PRIYA.C.GABASAVALAGI | ECTARIN (PCAMO RESPECTARES PROPER PEG (PCA PICTE A (PCA |
| 14 | VEENAKUMARI | bus day low devoter hear level burgles burgles the form being the |
| 15 | ANIL.GANI | and second and and some and and and and and and and and |
| 16 | AISHWARYA.N.SHETTI | BY BY AND AN AND AND SHE SHE BY AND BY |
| 17 | POORNIMA.KESTI | AD Rat Keet Keet Keet Yest AD Keets Keets Rat Lat Yest AD Rot Keet Keet |

| 16 | AISHWARYA.N.SHETTI | are the world at the the the the the the the |
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| 17 | POORNIMA.KESTI | Det Kat Kat Kat La Dan Kat |
| 18 | BIBIZAHERA.BEVANUR | Part Rul Bul Rul Rul But Rul Rul Al But Rul But Rul But But But |
| 19 | VUEETA.L.THORVI | 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 |
| 20 | RIYA.SHETTI | Out who get Dittor On Out of But p out out out out out |
| 21 | DEEPA.M.BAGALI | Worker Erale 19 Bother Bother Bother Bother Bother States Bother Dock good grave Docks |
| 22 | LAXMI.GANTI | 287 168 168 168 168 168 168 168 168 168 168 |
| 23 | AJEETA.B.DHANAWADE | There Here Here Here Here Deres Deres Deres De years of here Here & here Views Views Were |
| 24 | KASHINATH.M.BAGALI | Kung wo kut wa kug kung wat und und kung kung kung kung kung kung |
| 25 | SUSHMITA.A.T | Eng Cost (med Cost English M. Con Con Cost (Cost) We Com Con Cost |
| 26 | SHOBHA.M.YALAGI | the free from the last last the last fact that the fact that had been fact the |
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Head
Dept. of Chemistry
SB Arts & KCP Sc. College.
Vijayapur.

IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

B.L.D.E.Association's

S.B.Arts and K.C.P.Science College ,Bijapur(Karnataka)

ADD-ON COURSE:CERTIFICATE COURCE IN SOIL AND WATER TESTING STUDENTS PRACTICAL ATTENDANCE REGISTER

Student list (2017-18)

| Slino | Name of the students | 15 (8 24 2-5) 32 8 24 2/3 33 11 9 3 9 3 25 9 25 9 26 9 25 9 25 12 12 12 12 |
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| 1 | GURURALCHIREMATH | MAN CONTRACTOR OF THE PARTY OF |
| 2 | IRAPPA.KARIGAR | E I I TEIME DE DE LAMBÉ E |
| 3 | RAJAKUMAR SHAIRASHETTI | 2242242222222 |
| 4 | POOJA,G,HADAFAD | CH CHICK CHI |
| 5 | ARATI.S.DUDAGI | A A B B A B B B B B B B B B B B B B B B |
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| 7 | DARMARAJ.HALLI | ABBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB |
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| 9 | VARSHA.S.TOPI | but had been a day but her had been to been to been but and and |
| 10 | PRATIMA.8.HANJI | The same of the sa |
| 11 | BIBI A YESHA.BEVANOOR | Sin Sin Al Sin Sin Sin Sin H. Sin H. Sin Al Sin He Sin Sin |
| 12 | SHWETA.S.RUGI | # 8 R 8 R 8 R 8 R 8 R 8 R 8 R 8 R |
| 13 | PRIYA.C.GABASAVALAGI | (ser fee for the fee was fee for feel feel feel for find feel |
| 14 | VEENAKUMARI | Ware love Wales here they have but had have had have have have |
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| 19 | VIJEETA.L.THORVI | Ot OF OTOT OT OT OT OT OT OT OT OT OT |
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| 21 | DEEPA.M.BAGALI | Dale Date Date Date Date Date Date Hy Bata Date Onto Age Barke Bark Date Date |
| 22 | LAXMI.GANTI | the der of der |
| 23 | AJEETA.B.DHANAWADE | Aperta Right - Renta Denta Denta Dieno Aperta Dieno Aperta Dieno Borra tijuta Lighta Aperta Dieno |
| 24 | KASHINATH.M.BAGALI | KWBKWBKWBKWBKWBKWBKWBKWBKWBKWBKWBKWBKWBK |
| 25 | SUSHMITA.A.T | Guzy Guzy Guzy Guzy Suzy Suzy Guzy Guzy Guzy Guzy Guzy Guzy AG Guzy Guzy |
| 26 | SHOBHA.M.YALAGI | Later Birth No Rate Born Later Cash State No Rate Colo Colo Colo Colo Colo Colo Colo Col |
| 27 | BHAGYA.A.GUBBI | कि क |
| 28 | SUJATA.M.KAMBASHETTI | S.M. K. S.M. K |
| 29 | SUDHARANI.B.KENGANAL | Sof End Sal Sul Sul Sul Sul Sul Sul Sul Sul Sul Su |
| 30 | SUSMITA.A.TALAWAR | But Sit Sit Sit Sit Sit Sit Sit Sit Sit Si |

Head
Dept. of Chemistry
SB Arts & KCP Sc. College,
Vijayapur.

IQAC, Co-ordinator S.B.Arts & K.C.P.Science College, Vijayapur.

BLDEA's S.B.Arts and K.C.P.Science College Vijayapur <u>Dept of Chemistry</u>

NOTICE

Date: 18/04/2018

All the students of COP Course in Soil and water analysis are hereby informed that , final exam in this course will be conducted on 28/04/2018 So attend the exam.

S.B.Arts & K.C.P.Science College, Vijayapur.

Science College, SB ATS & RCT Survey

Principal, College.
S. B. Arts & KCP Sc. College.
Bijapur

B. L. D. E ASSOCIATION'S S. B ARTS AND K. C. P SCIENCE COLLEGE

DEPARTMENT OF CHEMISTRY

Certificate course in water and soil testing Theory (Paper -I) Examination 2017-2018:

Time:3hours

max: 50

Answer any ten of the following questions

5 x10=50

- 1) What is Agenotometic Titration? Explain Prevention of scales in boilers.
- 2) Discuss briefly the use and conservation of water resources.
- 3) Write a note on water quality test management.
- 4) How will you reuse municipal and sewage water .
- 5) Exaplain volumetric analysis and its types?
- 6) Write a note on treatment and disposal of industrial waste water.
- 7) Write a note on purification of water.
- 8) Write a note on COD effluents.
- 9) Explain different modes of water management?
- 10) Write the characterstics of industrial water.
- 11) What is redox titration? Explain EDTA titration.
- 12) Explain briefly the nature of industrial waste water treatment.

Dept. of Chemistry \$B Arts & KCP Sc. College,

Vijayapur.

IQAC, Co-ordinator

S.B.Arts & K.C.P. Science College, S.B.Arts & K.C.P. Science College, VIJAYAPUR.

B. L. D. E ASSOCIATION'S S. B ARTS AND K. C. P SCIENCE COLLEGE

DEPARTMENT OF CHEMISTRY

Theory(Paper -II) Examination 2017-18 Certificate course in water and soil testing

Time:3hours

max: 50

Answer any ten of the following questions

5 X10=50

- 1) Explain and discuss soil reaction and plant growth?
- 2) Discuss and explain what is soil clays.
- 3) Explain in detail the soil sampling and preparation of soil sample?
- 4) Explain the effect of organic and inorganic pollutants on soil?
- 5) Explain soil collides, soil clays in detail?
- 6) What are the parameters used for soil analysis?
- 7) Explain how do you determine the organic carbon and nitrogen?
- 8) Explain briefly the fractionation of soil organic matter and humus?
- 9) What is the effect of direct discharge of industrial effluent to soil?
- 10) What is soil mineralogy, soil classification and discuss the physical properties of soil?
- 11) Discuss and explain the terms soil colloides.

12) Expalin the classification of soil?

Dept. of Chemistry SB Arts & KCP Sc. College,

Vijayapur.

S.B.Arts & K.C.P.Science College Vijayapur.

BLDEA's

S.B.Arts and K.C.P.Science College Vijayapur

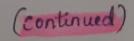
Dept of Chemistry

Marks list of students 2017-18

Certificate Course in Soil and Water Analysis

MAX. MARKS: 150

| SI. No | Name of the Student | Theory I (50) | | Practical I (50) | | Field/ Project work (50) | Marks Obtained |
|--------|------------------------|------------------|-------------|---------------------|-------------|--------------------------------|-------------------|
| | | 40 | I.A (10) | 40 | I.A (10) | | |
| 1. | GURURAJ.C.HIREMATH | 39 | 9 | 35 | 6 | 48 | 137 |
| 2. | IRAPPA.KARIGAR | 27 | 7 | 26 | 8 | 47 | 115 |
| 3. | RAJAKUMAR.BHAIRASHETTI | 24 | 8 | 28 | 8 | 49 | 117 |
| 4. | POOJA.G.HADAPAD | 40 | 8 | 29 | 5 | 50 | 132 |
| 5. | ARATI.S.DUDAGI | 15 | 4 | 23 | 8 | 45 | 95 |
| 6. | REKHA.MALI | 16 | 6 | 24 | 8 | 50 | 104 |
| 7. | DARMARAJ.HALLI | 22 | 4 | 23 | 9 | 49 | 108 |
| 8. | ROHINI. | 38 | 6 | 30 | 6 | 47 | 127 |
| 9. | VARSHA.S.TOPI | 25 | 7 | 32 | 5 | 48 | 117 |
| 10. | PRATIMA.B.HANJI | 24 | 8 | 25 | 5 | 49 | 111 |
| 11. | BIBI A YESHA.BEVANOOR | 29 | 9 | 15 | 5 | 48 | 106 |
| 12. | SHWETA.S.RUGI | 30 | 7 | 16 | 6 | 38 | 97 |
| 13. | PRIYA.C.GABASAVALAGI | 32 | 4 | 28 | 7 | 47 | 118 |
| 14. | VEENAKUMARI | 29 | 5 | 38 | 8 | 48 | 124 |
| 15. | ANIL.GANI | 32 | 6 | 39 | 8 | 48 | 132 |
| 16. | AISHWARYA.N.SHETTI | 38 | 7 | 37 | 8 | 50 | 140 |
| 17. | POORNIMA.KESTI | 38 | 7 | 37 | 6 | 50 | 135 |
| 18. | BIBIZAHERA.BEVANUR | 37 | 7 | 38 | 6 | 48 | 130 |
| 19. | VIJEETA.L.THORVI | 33 | 8 | 20 | 9 | 47 | 115 |
| 20. | RIYA.SHETTI | 33 | 8 | 22 | 9 | 48 | 120 |
| 21. | DEEPA.M.BAGALI | 20 | 9 | 21 | 5 | 48 | 103 |
| 22. | LAXMI.GANTI | 22 | 5 | 39 | 7 | 49 | 112 |
| 23. | AJEETA.B.DHANAWADE | 21 | 8 | 38 | 8 | 44 | 119 |



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|-----|--|----|---|----|---|----|-----|
| 24. | KASHINATH.M.BAGALI | | - | 26 | 6 | 45 | 124 |
| 25. | SUSHMITA.A.T | 38 | 9 | - | - | 47 | 119 |
| 26. | SHOBHA.M.YALAGI | 24 | 6 | 38 | 4 | | |
| 27. | BHAGYA.A.GUBBI | 26 | 6 | 24 | 5 | 48 | 109 |
| 28. | SUJATA.M.KAMBASHETTI | 38 | 5 | 26 | 6 | 49 | 124 |
| | | 27 | 5 | 39 | 8 | 50 | 129 |
| 29. | SUDHARANI.B.KENGANAL | | | - | 8 | 46 | 127 |
| 30. | SUSMITA.A.TALAWAR | 29 | 6 | 38 | 0 | 70 | |

Principal,
S. B. Arts & KCP Sc. College Bijapur

IQAC, Co-ordinator

S.B.Arts & K.C.P.Science College, Vijayapur.

Dept. of Chemistry SB Arts & KCP Sc. College, Vijayapur.

COP-Report

Career orientated programme (add on course) the certificate course in soil and water testing conducted by the Department of Chemistry, during the academic year 2017-18. The main objective of this certificate course is to provide complete knowledge about water and soil testing.

The students are taken to the villages for the study of different water and soil samples. The water test helps the students understand quality and edible water supplied by municipality, borewell, ponds and other water sources. The various parameters after testing water sample a clear report is given by the students which is more useful for the people to understand the quality and other contaminates present in the given testing water sample. It also provide useful information for the farmers.

And the soil testing result and report provides a complete information about the other soil parameters. Water and soil testing allows to establish complete safeline values ultimately increase the knowledge of understanding specific issues of different water bodies.

Head
Dept. of Chemistry
SB Arts & KCP Sc. College
Vijayapur.

IQAC, Co-ordinator S.B.Arts & K.C.P.Science College





BLDE Association's

S.B. Arts & K.C.P. Science College, Vijayapur-586103



(Affiliated to RCU, Belagavi)
Re-accrediated at "A" Level in Third Cycle by NAAC

DEPARTMENT OF CHEMISTRY

CAREER ORIENTED PROGRAMME (Add on Course)

Certificate

Dare 30 /6 /12 5

S.B.Arts & K.C.P. Science College,

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Coordinator/HOD

IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.



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DEPARTMENT OF CHEMISTRY

CAREER ORIENTED PROGRAMME (Add on Course)

Certificate

This is to certify that Shri/ Smt ... Rajakumar. Bhairashetti.

has successfully completed Certificate Course in Soil and Water Testing

Conducted by Department of Chemistry, BLDEA's S B Arts and K C P Science College,

Vijayapur during year 2013-2018

Principal,

Dara 30 / 6 / 18 S B Arts & K C.P. Science College,

VUAYAPUR.

Coordinator/HOD

IQAC, Co-ordinator
S.B.Arts & K.C.P.Science College,
Vijayapur.

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DEPARTMENT OF CHEMISTRY

CAREER ORIENTED PROGRAMME (Add on Course)

Certificate

This is to certify that Shri/Smt Irappa. Kasigas. has successfully completed Certificate Course in Soil and Water Testing Conducted by Department of Chemistry, BLDEA's S B Arts and K C P Science College, Vijayapur during year 2017-2018

