

Certificate Course : Soil & Water Analysis

Year 2017-2018

To be submitted to the

**JAWAHAR ARTS SCIENCE & COMMERCE COLLEGE
ANDUR**

Tq. Tuljapur Dist. Osmanabad

Submitted by

Course Co-ordinator

Dr. D. S. Suryawanshi

Professor & Head Department of Botany

Jawahar Arts Science & Commerce College Andur

Tq. Tuljapur Dist. Osmanabad

October 2017



दुरितांचे तिमिर जावो !

Shikshan Prasarak Mandal's Anadur

JAWAHAR ART'S, SCIENCE & COMMERCE COLLEGE, ANADUR

Tq. Tuljapur, Dist. Osmanabad-413 603

NAAC GRADE - B++(CUPA 2.81)

President :- Shri. B.F.Kasture

Secretary :- Shri. S.N. Alure Guruji

I/C Principal :- Dr.Smt. M.B. Jadhav(Mob.9960242667)

☎ :- (02471) 246037, 246737

Date: 28/06/201 / 2017

Notice

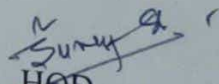
All the faculty members of Botany Department are hereby informed that a meeting of our department will be held on day 28 / 06 / 2017 under the chairmanship of our head Dr. D. S. Suryawanshi to discuss the following agenda. So everyone should attend on time.

Agenda for meeting:

1. To read and confirm the Proceeding of last meeting.
2. To read and confirm the certificate course.
3. To discuss and design the stricter of certificate course.
4. To prepare and frame the syllabus of certificate course.
5. To formulate the BOS.
6. To prepare the Time-Table of certificate course.
7. To conduct other activities regarding the course.
8. Timely topics with the permission of chairperson.


PRINCIPAL

Jawahar Arts, Science & Commerce
College, Anadur,
Tal. Tuljapur, Dist. Osmanabad.


HOD
Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

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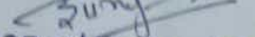
I/C Principal :- Dr.Smt. M.B. Jadhav(Mob.9960242667)


☎ :- (02471) 246037, 246737

Proceeding of Botany Departmental Meeting

Today 07/07/2017 a meeting was held in department of ^{Botany} ~~chemistry~~ under the chairperson Dr. D. S. Suryawanshi (HOD). In this meeting discussion made on how to conduct the certificate course in Soil & Water Analysis. All faculties are unanimously agreed to run this certificate course for all UG students. Discussion was successful regarding to construct the syllabus, timetable, the nature of Question paper and the said course admission form. All faculties assured each other to give healthy contribution for running this course and all other efforts needed. Finally all faculties are firmly decided to construct the syllabus, timetable, sample question paper and admission form and to convey to Hon. Principal for further approval from College Development committee.

- DSS- Dr. D. S. Suryawanshi
- KDA- Mrs .D. A. Kalshetti
- GRV-Shri. R. V. Ghodke
- CSG- Shri S. G. Chavan


Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad


Principal
PRINCIPAL
Jawahar Arts, Science & Commerce
College, Anadur,
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☎ :- (02471) 246037, 246737

Date: 3/08/2017

To,

Principal,

JASC College, Anadur.

Tq. Tuljapur, Dist. Osmanabad.

Sub: To get the permission to Botany department to conduct the certificate course in Soil science for academic year 2017-2018. Dear Sir, With reference to above cited subject I am kindly informing you that a departmental meeting of Botany was held on date 07/07/2017 in this meeting all faculty are unanimously decided to conduct a certificate course in "Soil & Water Analysis" during this academic year 2017-2018.

In this meeting we all faculty also make a action plan to run this certificate course with all necessary formalities. So we all the chemistry faculty are requesting to you give us approval for said courses.

Attached:

- ✓ Departmental proceeding
- ✓ Time-Table
- ✓ Syllabus
- ✓ Question Paper Pattern
- ✓ Admission form

Mrs .D. A. Kalshetti

Shri. R. V. Ghodke

Shri. S.G. Chavan

Head

Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

HC
Principal

PRINCIPAL

Jawahar Arts, Science & Commerce
College, Anadur,
Tal. Tuljapur, Dist. Osmanabad.



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Date: 17/05/2017

To,

The Head,

Department of Botany

Jawahar ASC College, Anadur,

Tq. Tuljapur, Dist. Osmanabad.

Subject: Approval to conduct the certified course for students of science.

As per the decision taken in College Development Committee, you are directed to conduct the Certificate course in Soil & Water Analysis in your department for the students of our college. The course should be of 30 hours and be conducted in the academic year 2017-2018.

Convey your timetable of the said course to the timetable committee so as to avoid any overlapping of lecturers.

Smt. M.B. Jadhav
Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

[Signature]
I/C Principal
PRINCIPAL
Jawahar Arts, Science & Commerce
College Anadur
Tal. Tuljapur, Dist. Osmanabad.

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Date: 19/08/2017

Notice

All the students of science faculty are hereby informed that the Department of Botany is going to conduct a value added / skill based certificate course on "Soil & Water Analysis" during this academic year 2017-2018 from 01/09/2017 to 30/09/2017 (30 hours).

The interested students may enroll their name with Mr. Namdev Kale at department of Botany before 30/08/2017

Co-coordinator

Head
Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

Principal

PRINCIPAL
Jawahar Arts, Science & Commerce
College, Anadur,
Tal. Tuljapur, Dist. Osmanabad.



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Jawahar Arts, Science & Commerce College, Anadur

Department of Botany

Certificate Course on Soil & Water Analysis

Student registration form (2017-2018)

Name of Student: Ku. Gaikwad Karishma Arvind

Class and Roll No: B-SC E - AA-01

Contact No: _____

Email address: _____

Corresponding Address: A+ Post Andur
Tq. Tuljapur Dist. Osmanabad,

[Signature]
Signature of Student

[Signature]
Co-coordinator

[Signature]
Head
Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

[Signature]
Principal
Principal
Jawahar Arts, Science & Commerce College
Anadur, Tal. Tuljapur, Dist. Osmanabad.

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Department of Botany

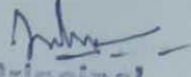
Jawahar Arts, Science and Commerce College, Andur

Add on Course on Soil & Water Analysis

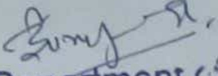
Enrollment List of Students 2017-2018

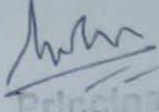
Sr. No	Roll Number	Name of Student	Class
1	AA-01	Ku. Gaikwad Karishama Arvind	B. Sc. I
2	AA-02	Ku. Gaikwad Muktabai Vittal	B. Sc. I
3	AA-03	Gaikwad Pankaj Ashok	B. Sc. I
4	AA-04	Ku. Gaikwad Reshama Arvind	B. Sc. I
5	AA-05	Ku. Gavane Puja Laxman	B. Sc. I
6	AA-06	Ku. Ghodke Jyoti Sanjay	B. Sc. I
7	AA-07	Ku. Ghodke Muktabai Dagdu	B. Sc. I
8	AA-08	Ku. Ghodke Puja Biru	B. Sc. I
9	AA-09	Ku. Ghodke Anuradha Ganpat	B. Sc. I
10	AA-10	Ghodke Kiran Vijay	B. Sc. I
11	AA-11	Ghodke Kishor Krashant	B. Sc. I
12	AA-12	Ghuge Ajinkya Bhagvat	B. Sc. I
13	AA-13	Ghuge Kapil Sarjerao	B. Sc. I
14	AA-14	Ku. Ghuge Rutuja Padhmakar	B. Sc. I
15	AA-15	Ghuge Sanket Arasrao	B. Sc. I
16	AA-16	Ghuge Shahaji Ram	B. Sc. I
17	AA-17	Ghuge Somnath Rajkumar	B. Sc. I
18	AA-18	Ku. Hagalgunde Poonam Balu	B. Sc. I
19	AA-19	Ku. Hebale Renuka Basavraj	B. Sc. I
20	AA-20	Hindole Sunil Narsing	B. Sc. I
21	AA-21	Ku. Hipperge Shridevi Prakash	B. Sc. I
22	AA-22	Hogade Anant Hanmant	B. Sc. I
23	AA-23	Ku. Isake. Saroja Tukaram	B. Sc. I
24	AA-24	Jadhav Bhagyashri Dnyaneshwer	B. Sc. I
25	AA-25	Ku. Jadhav Swati Namdev	B. Sc. I
26	AA-26	Jagdale Gansh Dattatrya	B. Sc. I


Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad


Principal
Jawahar Arts, Science & Commerce College
Anadur, Tal. Tuljapur, Dist. Osmanabad

27	AA-27	Ku. Jtte Prajkata Baburao	B. Sc. I
28	AA-28	Kabade Omkar Bhimashankar	B. Sc. I
29	AA-29	Kabade Omkar Nurundappa	B. Sc. I
30	AA-30	Kabade Sagar Shubhash	B. Sc. I


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Syllabus of Certificate Course in "Soil & Water Analysis"

1. Analysis of Soil and Water

Introduction, Soil type & Soil profile, Erosion of soil, Conservation of soil Physical & Chemical properties of soil,

2. Water Pollution:

Introduction water pollution & its definition, Sources of water pollution, Classification of water pollutants and Water Pollutants areas


3. Soil Pollution.

Chemistry of Soil, Source of soil pollution, Agriculture pollution Agriculture chemicals

4. Waste and Soil Treatment:

Characteristic of waste water, Treatment of water pollution, Pre primary treatment, Primary treatment, Secondary treatment. Tertiary treatment & Soil treatment


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Certificate Course in Soil & Water Analysis

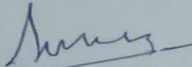
Practical (15 Hrs)

Sr. No.	Name of Experiment
1	To Determination of PH, Moisture & Humidity
2	To Determine nutrient content (NPK)of Soil
3	To Determine Micronutrient Soil
4	To Determine Salinity of given soil sample
5	To Determine Organic carbon of soil
6	To Determine total Alkalinity of water
7	To Determine the hardness of water sample
8	To Determine Ph and conductance of waste water
9	To Determine Acidity of water
10	To Determine TS, TSS, TDS of water
11	To Determine salinity of the given water sample
12	To Determine Dissolve oxygen of waste water
13	To Determine Chemical oxygen demand of waste water


Co-coordinator

(Dr. D. S. Suryawanshi)


Head Department of Ecology
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad


Principal
Jawahar Arts, Science & Commerce College
Anadur, Tal. Tuljapur, Dist. Osmanabad.

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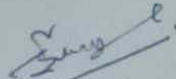
☎ :- (02471) 246037, 246737

Date:- 25/08/2017

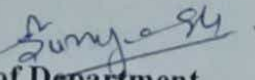
This Course is included Theory classes, field visit assignment ,
Practical's

Course structure & Examination Scheme

Course name	Contact classes (hours)	Laboratory experiment (hours)	Viva-voce Marks	External Marks		Total Marks
				Theory	Practical	
Soil & Water Analysis	15	15	10	50	40	100


Co-coordinator

(Dr. D. S. Suryawanshi)


Head of Department

Head Department of E ctany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad


Principal

Jawahar Arts, Science & Commerce
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☎ :- (02471) 246037, 246737

Ref.No.JASC/Chem/Syll/BOS/2017-2018/

Date: 17/08/2017

To,

1} Dr. D. S. S. Suryawanshi *Suryawanshi* 2} Dr. Dr. S. R. Biradar *Biradar*

Ad-hoc Board in Botany Ad-hoc Board in Botany

JASC College, Anadur, BSS College, Makani

Tq. Tuljapur, Dist. Osmanabad Tq. Lohara, Dist. Osmanabad.

Mob: 9511770582 Mob: : 9284313450

3} Mrs. D. A. Kalshetti *Kalshetti* 4} Shri. R. V. Ghodke *Ghodke*

Ad-hoc Board in Botany Ad-hoc Board in Botany

JASC College, Anadur, ASC. College. Anadur

Tq. Tuljapur, Dist. Osmanabad. Tq. Tuljapur, Dist. Osmanabad

Mob: 8237171931 Mob: 8600463070

Subject: Constitution of Ad-hoc Board in Botany (Certificate Courses-Soil & Water Analysis)

Sir/Madam,

I am to inform your that the Hon'ble Principal is pleased to nominate you as a Member/Chairman on the Ad-hoc Board in Botany for this previous year 2018-2019 as per provision statute-159 of the university act. While requesting you to accept this invitation to work on the Ad-hoc Board. I do realize your busy moments in your own field. Yet in view of your expertise in the subject. I shall be thankful if you accept the membership of the Ad-hoc Board for enriching the academic standards of the university through your valuable contribution.

Your appointment shall be governed by and subject to the provisions of the Maharashtra Public University Act, 2016 as amended from time to time. Kindly communicate your acceptance at the earliest.

Suryawanshi
Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

Jadhav
PRINCIPAL
Jawahar Arts, Science & Commerce
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☎ :- (02471) 246037, 246737

Date: 31/08/2017

Department of Botany

Jawahar Arts, Science and Commerce College, Anadur

Add on Course on Soil & Water Analysis

Theory Time Table – 2017-2018

Lecture	Time	Monday	Tuesday	Wednesday	Thursday	Friday
I	03.00 to 04.00	DSS	KDA	GRV	CSG	KDA
II	04.00 to 05.00	DSS	KDA	GRV	CSG	GRV
III	05.00 to 06.00	DSS	KDA	GRV	CSG	CSG

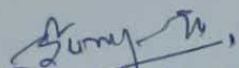
Practical Time Table – 2017-2018


Lecture	Time	Monday	Tuesday	Wednesday	Thursday	Friday
I	03.00 to 04.30	DSS	PAM	VGM	LLM	DNG
II	04.30 to 06.00	DSS	KDA	GRV	CSG	KDA

List of Faculty Contributing for this Course

- DSS- Dr. D. S. Suryawanshi
- KDA- Mrs .D. A. Kalshetti
- GRV-Shri. R. V. Ghodke

CSG- Shri S. G. Chavan


Head Department of Botany
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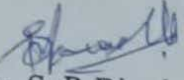
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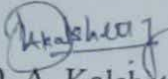
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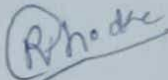
Date- 14/08/2018

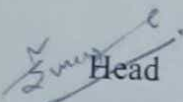
BOS Meeting Proceeding

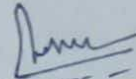
As per requested all BOS member are gathered together to discuss regarding the syllabus of certificate course in Soil & Water Analysis going to conduct by department of Botany during the academic year 2017-2018. In this meeting under the chairperson of head of department Dr. D.S.Suryawanshi, discussion made on designing syllabus as well as how to implement the said course smoothly and fruitful. All members put their view and finally decided the syllabus, duration of one month regular with day to day activities. After vote of thanks expressed by Mrs. D.A. Kalshetti the said meeting is over.


Dr. S. R. Biradar


Mrs. D. A. Kalshetti


Shri. R. V. Ghodke


Head
Dr. D. S. Suryawanshi
Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad


Principal
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Department of Botany

Conducting Co-curricular course

“Soil & Water Analysis”

1. Name of Department: Botany
2. Type of Programme: value added / skill based certificate course
3. Title of Programme: Certificate course in “Soil & Water Analysis”
4. Name of Co-ordinator: Dr. . D. S. Suryawanshi
4. Faculty offered: B.Sc
5. Name of Teachers:
Mrs .D. A. Kalshetti
Shri. R. V. Ghodke
Shri. S.G. Chavan
6. Duration: 30 hours
7. Theory: 15 Hours
8. Practical: 15 Hours.

Head

Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

Principal

PRINCIPAL
Jawahar Arts, Science & Commerce
College, Anadur,
Tal. Tuljapur, Dist. Osmanabad.



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Tq. Tuljapur, Dist. Osmanabad-413 603

NAAC GRADE - B++(CUPA 2.81)

President :- Shri. B.F.Kasture

Secretary :- Shri. S.N. Alure Guruji

I/C Principal :- Dr.Smt. M.B. Jadhav(Mob.9960242667)

☎ :- (02471) 246037, 246737

Notice

Date: 29/09/2017

All the students enrolled in certificate course in Soil & Water Analysis run by department of Botany are hereby informed that the Department of Botany is going to conduct a final test on "Soil & Water Analysis" during this month on

Time-Table for Exam 2017-2018

Sr. No	Roll. Number	Name of Student	Hall Number
1	AA-01	Ku. Gaikwad Karishama Arvind	16
2	AA-02	Ku. Gaikwad Muktabai Vittal	
3	AA-03	Gaikwad Pankaj Ashok	
4	AA-04	Ku. Gaikwad Reshama Arvind	
5	AA-05	Ku. Gavane Puja Laxman	
6	AA-06	Ku. Ghodke Jyoti Sanjay	
7	AA-07	Ku. Ghodke Muktabai Dagdu	
8	AA-08	Ku. Ghodke Puja Biru	
9	AA-09	Ku. Ghodke Anuradha Ganpat	
10	AA-10	Ghodke Kiran Vijay	
11	AA-11	Ghodke Kishor Krashant	16
12	AA-12	Ghuge Ajinkya Bhagvat	
13	AA-13	Ghuge Kapil Sarjerao	
14	AA-14	Ku. Ghuge Rutuja Padhmakar	
15	AA-15	Ghuge Sanket Arasrao	
16	AA-16	Ghuge Shahaji Ram	
17	AA-17	Ghuge Somnath Rajkumar	
18	AA-18	Ku. Hagalgunde Poonam Balu	
19	AA-19	Ku. Hebale Renuka Basavraj	
20	AA-20	Hindole Sunil Narsing	
21	AA-21	Ku. Hipperge Shridevi Prakash	
22	AA-22	Hogade Anant Hanmant	
23	AA-23	Ku. Isake. Saroja Tukaram	
24	AA-24	Jadhav Bhagyashri Dnyaneshwer	
25	AA-25	Ku. Jadhav Swati Namdev	
26	AA-26	Jagdale Gansh Dattatrya	

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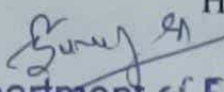
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Principal

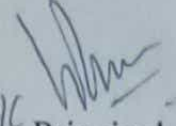
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Anadur, Tal. Tuljapur, Dist. Osmanabad.

27	AA-27	Ku. Jtte Prajkata Baburao	
28	AA-28	Kabade Omkar Bhimashankar	
29	AA-29	Kabade Omkar Nurundappa	
30	AA-30	Kabade Sagar Shubhash	

Co-coordinator

Head


Head Department of Botany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad


Principal

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30/09/2017

Department of Botany

Jawahar Arts, Science and Commerce College, Anadur

Add on Course on "Soil & Water Analysis"

Question Paper – 2017-2018

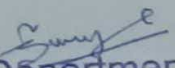
Date:

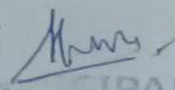
All questions are necessary

Each Ques. Carry 2 marks.

Total Marks: 40

1. Which one is the lower category for classification of soil?
A. Soil order B. Family C. Soil series D. None of the above
2. Which clay mineral is responsible for cracking in black soil?
A. Kaolinite B. Elite C. Vermiculite D. Montmorillonite.
3. Which method is used for determination of available phosphorus in acid soil?
A. Bray B. Olsen C. Walkley and Black D. Jackson
4. When the total soluble salt concentration of soil goes between 1-2 milli mhos/cm². Then how it affects the crops:
A. Critical for growth of sensitive crops B. Critical for Flowering C. Critical for germination
D. Injurious to crops
5. If the soil textural class has clay content more than 45 %, then it is called?
A. Sandy Clay B. Silty clay Loam C. Sandy Clay Loam D. Clay
6. There are 12 soil orders of soil. Out of these soil orders, Red soil has which soil order?
A. Ultisol B. Alfisol C. Vertisol D. Aridisol


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7. This soil has shrinking and swelling potential, and has the soil order vertisol. Which kind of crops are mostly preferred for this soil?
 A. Barley B. Wheat C. Maize D. Plantation crops
8. Which among the following soil types is the most fertile soil?
 A. Black soil B. Desert soil C. Peaty soil D. Muck soil
9. Peat soil are generally:
 A. Black, heavy & neutral B. Black, light & basic C. Black, heavy & acidic
 D. Red, light & acidic
10. Which one of the following minerals is least weather able in soil?
 A. Olivine B. Calcite C. Biotitic D. Quartz
11. The nitrate concentration in domestic water supplies, is generally limited to
 A. 10 ppm B. 15 ppm C. 30 ppm D. 45 ppm
12. Carbonates in water produce
 A. Temporary hardness B. Permanent hardness C. Acidity D. Alkalinity
13. Ground water from artesian wells
 A. Contains no suspended materials B. Contains dissolved salts C. May be saltish and hard
 D. All the above
14. Alum is a
 A. Coagulant B. Flocculent C. Catalyst D. Disinfectant
15. Sluice valves are fitted in a distribution system
 A. Along straight length of pipes at suitable intervals .B. At the junctions of the pipes
 .C. At the branching off points of sub-mains D. All the above
16. The ratio of maximum hourly consumption and average hourly consumption of the maximum day, is
 A. 1.2 B. 1.5 .C. 1.8 D. 2.717. If the average daily demand of a city of 50,000 population, is 20 m.l.d., the maximum daily demand is
 A. 24 mld B. 30 mld C. 36 mld D. 54 mld
18. Aqueducts are generally designed
 (A) Circular (B) Rectangular (C) Horse shoe section (D) All the above

Surya E
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19. Water losses in water supply, is assumed as
A. 5 % B. 7.5 % C. 10 % D. 15 %

20. The requirement of water per capita per day, is
A. 90 liters B. 120 liters C. 250 liters D. 400 liters

Surya R.
head Department of Estany
Jawahar College Andur,
Tal. Tuljapur, Dist. Osmanabad

Prakash
Principal
Jawahar College, Arts, Science & Commerce
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Department of Botany

Jawahar Arts, Science and Commerce College, Anadur

Add on Course on Soil & Water Analysis

Mark List - 2017- 2018

Sr. No	Roll. Number	Name of Student	Class	Theory Out of 50 Marks	Practical Out of 40 Marks	Viva-Voce Out of 10 Marks	Total
1	AA-01	Ku. Gaikwad Karishama Arvind	B. Sc. I	44	35	6	85
2	AA-02	Ku. Gaikwad Muktabai Vittal	B. Sc. I	44	34	5	83
3	AA-03	Gaikwad Pankaj Ashok	B. Sc. I	40	32	7	79
4	AA-04	Ku. Gaikwad Reshama Arvind	B. Sc. I	38	37	5	80
5	AA-05	Ku. Gavane Puja Laxman	B. Sc. I	40	34	4	78
6	AA-06	Ku. Ghodke Jyoti Sanjay	B. Sc. I	36	36	7	79
7	AA-07	Ku. Ghodke Muktabai Dagdu	B. Sc. I	38	34	7	79
8	AA-08	Ku. Ghodke Puja Biru	B. Sc. I	32	32	8	72
9	AA-09	Ku. Ghodke Anuradha Ganpat	B. Sc. I	36	35	5	76
10	AA-10	Ghodke Kiran Vijay	B. Sc. I	40	36	6	82
11	AA-11	Ghodke Kishor Krashant	B. Sc. I	38	34	7	79
12	AA-12	Ghughe Ajinkya Bhagvat	B. Sc. I	40	32	6	78
13	AA-13	Ghughe Kapil Sarjerao	B. Sc. I	42	33	5	80
14	AA-14	Ku. Ghughe Rutuja Padhmakar	B. Sc. I	40	34	6	80
15	AA-15	Ghughe Sanket Arasrao	B. Sc. I	38	35	5	78
16	AA-16	Ghughe Shahaji Ram	B. Sc. I	36	36	5	77
17	AA-17	Ghughe Somnath	B. Sc. I	32	32	6	70

[Signature]

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Principal

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		Rajkumar34					
18	AA-18	Ku. Hagalgu35nde Poonam Balu	B. Sc. I	40	32	5	77
19	AA-19	Ku. Hebale Renuka Basavraj	B. Sc. I	38	34	5	77
20	AA-20	Hindole Sunil Narsing	B. Sc. I	36	25	5	66
21	AA-21	Ku. Hipperge Shridevi Prakash	B. Sc. I	36	28	6	70
22	AA-22	Hogade Anant Hanmant	B. Sc. I	34	28	6	68
23	AA-23	Ku. Isake. Saroja Tukaram	B. Sc. I	38	30	5	74
24	AA-24	Jadhav Bhagyashri Dnyaneshwer	B. Sc. I	32	32	6	70
25	AA-25	Ku. Jadhav Swati Namdev	B. Sc. I	38	29	5	72
26	AA-26	Jagdale Gansh Dattatrya	B. Sc. I	40	30	4	74
27	AA-27	Ku. Jtte Prajkata Baburao	B. Sc. I	42	34	7	83
28	AA-28	Kabade Omkar Bhimashankar	B. Sc. I	38	32	6	76
29	AA-29	Kabade Omkar Nurundappa	B. Sc. I	36	32	5	73
30	AA-30	Kabade Sagar Shubhash	B. Sc. I	38	30	6	74

Co-ordinator


(Dr. D. S. Suryawanshi)


Head of Department

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Certificate Course : Soil & Water Analysis

Course Outcome

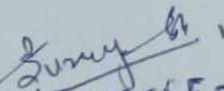
By Successfully completing the course, Student will be able to:

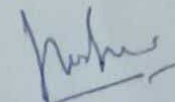
To Analyze Soil & Water Samples

To Knowledge of Quality of soil & water

To Determine the Physiochemical parameter of Soil.

To Create awareness about clean environment


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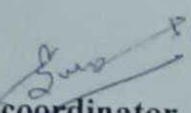
☎ :- (02471) 246037, 246737

Date :- 18/10/2017

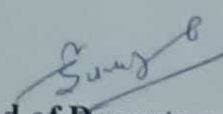
Certificate Course Final Report


On "Soil & Water Analysis-2017-2018"

Certificate course in Soil & Water Analysis is completed successfully with fruitful result. As per notice issued by department of Botany for students to made registration for this course, within little time 45 students registered their names for said course. Then by taking MCQ entrance test, we have selected 30 students. Meanwhile we have completed all the required formalities like CDC approval, syllabus design, and lecture distribution and also to nominate BOS members too. We have engaged 30 hours (15 hours for theory and 15 hours for practical). Meanwhile we have also engaged the doubt session also. Finally after syllabus completion we held final exam for said course and all the students enrolled for food chemistry certificate course successfully passed with good percentage marks. The Soil & Water Analysis certificate course question paper is of 50 marks.(25 question carry 2 marks each). Near about 15 students scored more than 40 marks, while remaining students scoring in between 37 to 40 marks. After result declaration we have organized a certificate distribution and award function for the students of course in kind presence of Hon. Principal. Dr. Umakant Chanshetti sir and our staff members' of Botany department.


Co-coordinator

(Dr. D. S. Suryawanshi)


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