

Estd-1969



Principal
Dr. S. D. Pawar
M.A. Ph.D

KOYANA EDUCATION SOCIETY'S

BALASAHEB DESAI COLLEGE, PATAN

**Arts, Commerce, Science (UG & PG), B.C.A. &
Vocational**

Patan - 415206, Dist. - Satara (Maharashtra)

Phone : (02372) 283047, E-mail-str_bdc@rediffmail.com

Website: www.bdc.edu.in

NAAC :- A+ (2015)



Date -06/12/2023

TO,
Prof. G.B. Kumbhar
Department of Horticulture,
Balasaheb Desai College, Patan.

Subject - Invitation as a External Expert.

Respected Sir,

Our College has conduct "Carrier Oriented course. It is pleasure to invite you for to frame the syllabus for Carrier Oriented course 'Analysis of soil and Potable water and its importance' kindly accept our invitation.

Date of Lecture - 11/12/2023

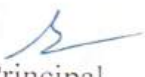
Time- 11.00 am.

Thanking you,


Course Co- Coordinator


H.O.D.

Yours Faithfully,


Principal

PRINCIPAL
Balasaheb Desai College,
Patan, Dist. Satara

Balasaheb Desai College, Patan

Department of Chemistry

B.O.S. in Chemistry

**COC Syllabus : Analysis of soil and potable water
and its importance**

To be implemented from December 2023

Balasaheb Desai College, Patan.
Department of Chemistry
Carrier Oriented course
Certificate course in "Analysis of soil and Potable water and its importance"

Unit I Physical Water quality parameter

- i) Temperature
- ii) Colour
- iii) Odour
- iv) Turbidity
- v) Conductivity

Unit II Chemical Water quality parameter

- i) Dissolved oxygen
- ii) Chemical oxygen demand
- iii) Biological oxygen demand
- iv) p^H
- v) Alkalinity
- vi) Acidity
- vii) Redox Potential

Unit III Sample Collection and Processing Purpose of Soil testing and analysis, selection Of field, Method of Soil Sample collection Methods of soil sample processing, Precautions during soil collection & processing, Preservation labeling and Storage Of soil samples

Unit IV Preparation of Various Chemical reagents required for soil testing, Processing of Soil Sampling for analysis. Determination of pH of soil sample using PH meter and Electrical Conductivity of Soil Sample using Electrical Conductivity meter.

Unit V Determination of Organic Carbon, available Nitrogen, available phosphorus and Available Potassium from soil sample.

Practical / work experience / field work / project / training

1. Collection of water samples
2. A) Collection of Soil sample from fields & study of soil sampling tools.
B) Selection of fields for taking soil samples.& identification of various soil.
3. Determination of total hardness of water
4. Determination of alkalinity of water
5. Determination of pH of water
6. Determination of conductivity of water
7. Determination of TDS in water
8. Determination of p^H of soil
9. Determination of conductivity of soil
10. Determination of N,P,K values
11. Determination of micronutrients. Characteristics of soil.

About the course –

Duration of the course (Syllabus)	60 hours
Theory / Practical (50 marks)	30 Hours
Field work / project work (50 marks)	30 hours
Eligibility for admissions:	H.S.C. Pass
Medium of Course:	English
Duration of the Course:	3 months

References

1. Soil in India by P.C.Das
2. Spectroscopy by Chatwal Ananda
Himalaya publishing house
3. Text Book & Analytical & Industrial Chemistry for B.Sc. III Phadke prakashan , Nirali
Prakashan
4. Fundamental of analytical chemistry
Skoog West & Holler
Harcort College Publisher
5. Water & Waste Water Analysis
Remarke & Mhaghe (NEERI Publication)
6. Water (Dream land Publication)

The following members of committee were present for to frame the syllabus for career oriented course in 'Analysis of soil and potable water and its importance'

1. Principal Dr. S.D.Pawar , **Chairman**


PRINCIPAL
Balasaheb Desai College,
Patan, Dist. Satara

2. Prof. G.B. Kumbhar , **External Expert**



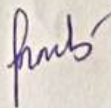
3 . Prof. Dr .V.A.Kalantre **Head , Dept.of Chemistry**



4. Prof .A.S.Lohar , **Co-ordinator**



5. Prof. M.S. Aldar , **Member**



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KOYANA EDUCATION SOCIETY'S

NAAC : 'A' Grade



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Phone : (02372) 283047, **E-mail-str** bdep@rediffmail.com
Website: www.bdep.edu.in



Date – 11/12/2023

TO,
Prof. G.B. Kumbhar
Department of Horticulture,
Balasaheb Desai College, Patan.

Subject - Preparation of syllabus for the "Analysis of soil and potable
water and its importance"

Respected Sir,

I wanted to take a moment to thank you for coming to our esteemed organization for attending the meeting of preparation of syllabus for the "Analysis of soil and potable water and its importance" as a member of Board of Studies for the course scheduled in year 2023- 2024 for B.Sc III students in our College on 11/12/2023.

Thanking you.

Co-Ordinator

H.O.D

PRINCIPAL
Balasaheb Desai College
Patan, Dist. Satara
Principal

Balasaheb Desai College, Patan
Analysis of soil and potable water and its importance
Student Name List (2023-2024)

Sr. No.	Name of the Students	Total Mark
1.	Jadhav Sandhya Tukaram	242
2.	Salunkhe Aniket Pandurang	235
3.	Kadam Sani Mahadev	235
4.	Molawade Abhishek Baliram	220
5.	Nikam Siddhesh Ganpat	213
6.	Kumbhar Anamika Yashawant	212
7.	Kawar Swapnil Krushnat	211
8.	Pawar Dattatray Shantaram	200
9.	Sawant Pranav Pradip	189
10	Kumbhar Ganesh Shantaram	185
11	Salunkhe Vaishnavi Navnath	222
12	Salunkhe Kajal Jaywant	221
13	Desai Sayali Hanmant	214
14	Patankar Sweta Anil	212
15	Sawant Govinda Patang	211
16	Suryawanshi Bhagyawan Shankar	208
17	Pawar Sanika Chandrakant	207
18	Molawade Ashvini Vishwanath	201
19	Salunkhe Abhishek Arjun	200
20	Kolekar Shital Sanjay	196

Sr. No.	Name of the Students	Theory / Practical 50 Mark	Field work / project work 50 Mark
1.	Salunkhe Vaishnavi Navnath	45	45
2.	Salunkhe Kajal Jaywant	46	48
3.	Desai Sayali Hanmant	43	42
4.	Sawant Govinda Patang	42	42
5.	Patankar Sweta Anil	45	48
6.	Suryawanshi Bhagyawan Shankar	45	42
7.	Pawar Sanika Chandrakant	47	45
8.	Molawade Ashvini Vishwanath	42	46
9.	Salunkhe Abhishek Arjun	47	42
10	Kolekar Shital Sanjay	40	45
11	Jadhav Sandhya Tukaram	45	43
12	Salunkhe Aniket Pandurang	42	45
13	Kadam Sani Mahadev	45	44
14	Molawade Abhishek Baliram	45	46
15	Nikam Siddhesh Ganpat	42	45
16	Kumbhar Anamika Yashawant	46	43
17	Kawar Swapnil Krushnat	46	46
18	Pawar Dattatray Shantaram	25	20
19	Sawant Pranav Pradip	42	42
20	Kumbhar Ganesh Shantaram	43	43

Balasahab Desai College, Patan

Analysis of soil and potable water and its importance

Student Attendance (2023-2024)

Sr.No	Student Name	10/10/2024	11/10/2024	12/10/2024	13/10/2024	14/10/2024	15/10/2024	16/10/2024	17/10/2024	18/10/2024	19/10/2024	20/10/2024	21/10/2024	22/10/2024	23/10/2024	24/10/2024	25/10/2024	26/10/2024	27/10/2024	28/10/2024	29/10/2024	30/10/2024	31/10/2024	01/11/2024	02/11/2024	03/11/2024	04/11/2024	05/11/2024	06/11/2024	07/11/2024	08/11/2024	09/11/2024	10/11/2024	11/11/2024	12/11/2024	13/11/2024	14/11/2024	15/11/2024	16/11/2024	17/11/2024	18/11/2024	19/11/2024	20/11/2024	21/11/2024	22/11/2024	23/11/2024	24/11/2024	25/11/2024	26/11/2024	27/11/2024	28/11/2024	29/11/2024	30/11/2024	01/12/2024	02/12/2024	03/12/2024	04/12/2024	05/12/2024	06/12/2024	07/12/2024	08/12/2024	09/12/2024	10/12/2024	11/12/2024	12/12/2024	13/12/2024	14/12/2024	15/12/2024	16/12/2024	17/12/2024	18/12/2024	19/12/2024	20/12/2024	21/12/2024	22/12/2024	23/12/2024	24/12/2024	25/12/2024	26/12/2024	27/12/2024	28/12/2024	29/12/2024	30/12/2024	31/12/2024	01/01/2025	02/01/2025	03/01/2025	04/01/2025	05/01/2025	06/01/2025	07/01/2025	08/01/2025	09/01/2025	10/01/2025	11/01/2025	12/01/2025	13/01/2025	14/01/2025	15/01/2025	16/01/2025	17/01/2025	18/01/2025	19/01/2025	20/01/2025	21/01/2025	22/01/2025	23/01/2025	24/01/2025	25/01/2025	26/01/2025	27/01/2025	28/01/2025	29/01/2025	30/01/2025	31/01/2025	01/02/2025	02/02/2025	03/02/2025	04/02/2025	05/02/2025	06/02/2025	07/02/2025	08/02/2025	09/02/2025	10/02/2025	11/02/2025	12/02/2025	13/02/2025	14/02/2025	15/02/2025	16/02/2025	17/02/2025	18/02/2025	19/02/2025	20/02/2025	21/02/2025	22/02/2025	23/02/2025	24/02/2025	25/02/2025	26/02/2025	27/02/2025	28/02/2025	29/02/2025	01/03/2025	02/03/2025	03/03/2025	04/03/2025	05/03/2025	06/03/2025	07/03/2025	08/03/2025	09/03/2025	10/03/2025	11/03/2025	12/03/2025	13/03/2025	14/03/2025	15/03/2025	16/03/2025	17/03/2025	18/03/2025	19/03/2025	20/03/2025	21/03/2025	22/03/2025	23/03/2025	24/03/2025	25/03/2025	26/03/2025	27/03/2025	28/03/2025	29/03/2025	30/03/2025	31/03/2025	01/04/2025	02/04/2025	03/04/2025	04/04/2025	05/04/2025	06/04/2025	07/04/2025	08/04/2025	09/04/2025	10/04/2025	11/04/2025	12/04/2025	13/04/2025	14/04/2025	15/04/2025	16/04/2025	17/04/2025	18/04/2025	19/04/2025	20/04/2025	21/04/2025	22/04/2025	23/04/2025	24/04/2025	25/04/2025	26/04/2025	27/04/2025	28/04/2025	29/04/2025	30/04/2025	01/05/2025	02/05/2025	03/05/2025	04/05/2025	05/05/2025	06/05/2025	07/05/2025	08/05/2025	09/05/2025	10/05/2025	11/05/2025	12/05/2025	13/05/2025	14/05/2025	15/05/2025	16/05/2025	17/05/2025	18/05/2025	19/05/2025	20/05/2025	21/05/2025	22/05/2025	23/05/2025	24/05/2025	25/05/2025	26/05/2025	27/05/2025	28/05/2025	29/05/2025	30/05/2025	31/05/2025	01/06/2025	02/06/2025	03/06/2025	04/06/2025	05/06/2025	06/06/2025	07/06/2025	08/06/2025	09/06/2025	10/06/2025	11/06/2025	12/06/2025	13/06/2025	14/06/2025	15/06/2025	16/06/2025	17/06/2025	18/06/2025	19/06/2025	20/06/2025	21/06/2025	22/06/2025	23/06/2025	24/06/2025	25/06/2025	26/06/2025	27/06/2025	28/06/2025	29/06/2025	30/06/2025	01/07/2025	02/07/2025	03/07/2025	04/07/2025	05/07/2025	06/07/2025	07/
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NAAC :- 'A+' Grade



9001:2015

Certified

Date- 19/01/2024

To,
Dr. B.S. Khandekar
Soil Scientist,
Krushi Vidnyan Kendra, Kalawade (Karad)

Subject:- About Permission for students for one day training visit under
DBT star scheme.

Respected Sir,

Department of Chemistry has organized study tour for the students of COC for one day training workshop on "Analysis of Soil & Potable water & its importance" on 19/01/2024 at Krushi Vidnyan Kendra Kalawade. The study tour is part of syllabus & for the same purpose students are visiting your Krushi Vidnyan Kendra.

So please give them permission for visiting your Krushi Vidnyan Kendra, & guide him.

Thanking you,

Yours faithfully,


PRINCIPAL
Balasaheb Desai College
Patan, Dist. Satara

Koyana Education Society,
Balasaheb Desai College, Patan

Feedback (2023-2024)

Name of the activity:- Certificate Course " Analysis of Soil & Potable Water & Its Importance.

Organized By :- Department of Chemistry

Sr. No.	Name of the Students	Excellent	Very Good	Good	Fair	Sign
1.	Jadhav Sandhya Tukaram	✓		-	-	-
2.	Salunkhe Aniket Pandurang	-	✓	-	-	-
3.	Kadam Sani Mahadev	-	✓	-	-	-
4.	Molawade Abhishek Baliram	✓	-	-	-	-
5.	Nikam Siddhesh Ganpat	-	✓	-	-	-
6.	Kumbhar Anamika Yashawant	✓	-	-	-	-
7.	Kawar Swapnil Krushnat	-	✓	-	-	-
8.	Pawar Dattatray Shantaram	✓	-	-	-	-
9.	Sawant Pranav Pradip	-	✓	-	-	-
10.	Kumbhar Ganesh Shantaram	✓	-	-	-	-
11.	Salunkhe Vaishnavi Navnath	-	✓	-	-	-
12.	Salunkhe Kajal Jaywant	-	✓	-	-	-
13.	Desai Sayali Hanmant	✓	-	-	-	-
14.	Patankar Sweta Anil	-	✓	-	-	-
15.	Sawant Govinda Patang	-	✓	-	-	-
16.	Suryawanshi Bhagyawan Shankar	-	✓	-	-	-
17.	Pawar Sanika Chandrakant	✓	-	-	-	-
18.	Molawade Ashvini Vishwanath	✓	-	-	-	-
19.	Salunkhe Abhishek Arjun	✓	-	-	-	-
20.	Kolekar Shital Sanjay	✓	-	-	-	-

Balasaheb Desai College, Patan
Analysis of soil and potable water and its importance
Student Name List (2023-2024)

Sr. No.	Name of the Students	Sign
1.	Jadhav Sandhya Tukaram	Jadhav S.T.
2.	Salunkhe Aniket Pandurang	Aniket
3.	Kadam Sani Mahadev	S
4.	Molawade Abhishek Baliram	AB Mol.
5.	Nikam Siddhesh Ganpat	Nikam
6.	Kumbhar Anamika Yashawant	KAnamika
7.	Kawar Swapnil Krushnat	SKK
8.	Pawar Dattatray Shantaram	P
9.	Sawant Pranav Pradip	PS
10.	Kumbhar Ganesh Shantaram	GK
11.	Salunkhe Vaishnavi Navnath	VS
12.	Salunkhe Kajal Jaywant	S.K. J.
13.	Desai Sayali Hanmant	SDesai
14.	Patankar Shweta Anil	SP
15.	Sawant Govinda Patang	SGP
16.	Suryawanshi Bhagyawan Shankar	Bhag S.S.
17.	Pawar Sanika Chandrakant	PS
18.	Molawade Ashvini Vishwanath	AM
19.	Salunkhe Abhishek Arjun	AS
20.	Kolekar Shital Sanjay	S.S. kolekar

Balasaheb Desai College, Patan
Name of the Department – Chemistry
(2023-2024)

Name of the Course : Analysis of soil and potable water and its importance

Date: 19/01/2024

Students Participation: 20

Venue: Krushi Vidnyan Kendra Kalawade



Dr. B.S. Khandekar (Soil Scientist), Prof. V. A. Kalantre (HOD), Mr. M.S. Aldar, Miss. A. S. Lohar, .

Objective of activity:

- 1) To introduce career & market – oriented skill that have utility for job, selfemployment & empowerment of student.
- 2) To give students knowledge of testing the quality of water & soil.

Outcome of Activity : 1) Student can testing the quality of water & soil using different types of chemical procedure.
 : 2) Students known how to maintain p^H level , conductance & N.P.K for the fertility of soil.

Introductory Speech : Prof. V. A. Kalantre

Name of the Guest : Dr. B.S. Khandekar
 (Soil Scientist) Krushi Vidnyan Kendra, Kalawade (Karad)

Convener of the Activity : Miss. A. S. Lohar, .

Vote of Thanks :

FEEDBACK ANALYSIS:				
Excellent	Very good	Good	Average	Fair
10	10	-	-	-

HVLate
Dr. Hemlata V. Kate
 Coordinator, IQAC
 Balasaheb Desai Collage, Patan

[Signature]
(Dr. S. D. Pawar)
 Principal
 Balasaheb Desai College, Patan
 Tal.- Patan Dist.- Satara

Koyana Education Society's

BALASAHEB DESAI COLLEGE, PATAN

Tal - Patan, Dist - Satara (Maharashtra)

(Affiliated to Shivaji University, Kolhapur)



CAREER ORIENTED COURSE

CERTIFICATE

This is to certify that Mr./Ms./Smt. _____
of _____ class has successfully completed the College Certificate Course in

from _____ to _____

The course was conducted by Balasaheb Desai College, Patan, Tal - Patan, Dist - Satara
(Maharashtra) in the Academic Year _____

Convenor

Principal