




Kokan Education Society's  
**Anandibai Pradhan Science College**  
Nagothane, Dist. Raigad.

**STUDENTS ENROLLED IN CERTIFICATE COURSES DURING THE  
ACADEMIC YEAR 2017-18**

Sr. No.	Name of the Certificate Course	Department	Number of students Enrolled
1	A Certificate Course in water analysis	Chemistry	30

  
IQAC Co-ordinator  
K.E.S.A.P. Science College  
Nagothane, Dist. Raigad (M.S.)



  
PRINCIPAL  
K.E.S. A. P. Science College  
Nagothane, Dist. Raigad (M.S.)



Konkan Education Society's  
'Bapusaheb Deshpande Educational Complex'  
**ANANDIBAI PRADHAN SCIENCE COLLEGE,**  
Nagothane, Tal.Roha, Dist. Raigad, Pin. 402 106

Phone : (02194) 222582

President : Sanjay Datta Patil  
Principal: Dr. Sandesh S. Gurav

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E-mail : [principalapsc@yahoo.co.in](mailto:principalapsc@yahoo.co.in)  
Website : <http://www.apcnagothane.edu.in>

Permanently affiliated to the University of Mumbai & Recognized by the Government of Maharashtra  
Included Under Section 2(f)&12(B)of the U.G.C. Reaccredited by NAAC with 'B+' Grade

## **BROCHURE FOR INSTITUTIONAL COURSES**

**2017-18**



Principal

**Dr. Sandesh S. Gurav**

**ANANDIBAI PRADHAN SCIENCE COLLEGE,**  
Nagothane, Tal. Roha, Dist. Raigad, Pin. 402 106





Konkan Education Society's  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**

Bapusaheb Deshpande Educational Complex  
Nagothane, Tal. Roha Dist. Raigad. 402106

Department of Chemistry

**2017-18**

A Manual For

**A Certificate Course in Water Analysis**

By

**Dr. V. R. Jadhavar**

Coordinator,

A certificate Course in Water analysis

Assist. Prof. in Chemistry

**KES Anandibai Pradhan Science College,**

**Nagothane Tal. Roha Dist. Raigad**

**Dr. Dinesh V. Bhagat**

Professor and Head,

Department of Chemistry

**KES Anandibai Pradhan Science College,**

**Nagothane Tal. Roha Dist. Raigad**

K. E. S.  
ANANDIBAI PRADHAN SCIENCE COLLEGE  
Nagothane, Tal. Roha, Dist. Raigad, Pin.402106

Department of Chemistry

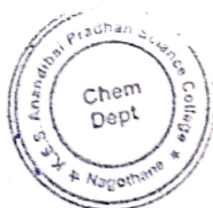
## A certificate course in Water Analysis

1. Syllabus of the Course:-**Attached**
2. List of Participants:-**List is attached**
3. Total Number of Batches:-**01**
4. Total Number of Beneficiaries:-**1000 People from Nagothane, Varvathane and Wangani Grampanchayat Area are benefited through this Course as a Consultancy Service under the Department of chemistry.**
5. Revenue/Outcome: - **We are providing this facility as a social service to the Society in free of cost.**



## Index

Sr. No.	Particulars	Page No.s
<b>Theoretical Aspects</b>		
1	Introduction	1-7
2	Collection and Preservation of samples	7-9
3	Description of sampling points	10
4	Collection and Types of Samples	11-13
5	Water Quality Assessment	14
6	Water Quality Parameters	15
7	Water Quality Standards	15
<b>Practical's</b>		
8	<b>Temperature</b> To determine the temperature of the given water sample.	16
9	<b>Color</b> To determine the Color of the given water sample.	16
10	<b>pH</b> To determine the pH of the given water sample.	17-19
11	<b>Conductivity</b> To determine the Conductivity of the given water sample.	20-21
12	<b>Total Dissolved Solids</b> To determine the TDS of the given water sample.	21-23
13	<b>Alkalinity</b> To determine the Alkalinity of the given water sample	23-25
14	<b>Total Hardness</b> To determine the TH of the given water sample.	25-30
15	<b>Dissolved Oxygen</b> To determine the DO of the given water sample.	30-32
16	<b>Chemical Oxygen Demand</b> To determine the COD of the given water sample.	33-38
17	<b>References</b>	39





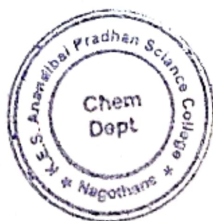
## Objective of the Course

1. To promote understanding of basic facts and concepts in water analysis.
2. To make students capable of studying Chemistry principles in academics and in Industrial courses.
3. To develop problem solving skills in students.
4. To acquaint students with the fundamental knowledge in water pollution studies,
5. To develop analytical skills and critical thinking through application of theory knowledge into practical course.
6. To construct and apply knowledge of chemistry, and appreciate the relationship between Chemistry and other disciplines.
- 7 To enable students to understand Chemistry and its Industrial and Social Context.

## Course Outcome

By the end of the course the students should able to

1. To understand, coherently and effectively about various parameters responsible for water pollution.
2. To develop the understanding and interest in the field of Chemistry and Environment.
3. To develop basic skills in practical Chemistry and its industrial applications.



K. E. S.  
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Nagothane, Tal. Roha, Dist. Raigad, Pin.402106

Department of Chemistry

A certificate course in Water Analysis

Syllabus of the Course

**Theoretical Aspects: -**

15L

1. Introduction
2. Collection and Preservation of samples, General Requirements, General information, Specific information
3. Description of sampling points, Safety Considerations
4. Collection and Types of Samples- Grab samples, Composite samples, Integrated (discharge-weighted) samples
5. Water Quality Assessment, Water Analysis Key Factors, Water bodies, Adverse Effects of Impurities, Constituents Responsible
6. Water Quality Parameters: Potable & Industrial, Physical, Inorganic or Chemical, Toxic Metals, Organic, Nutrient & Demand, Bacteriological, Biological Radioactive Elements
7. Water Quality Standards-BIS, WHO, etc.

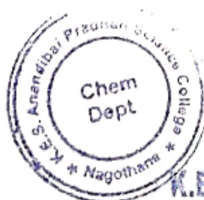
**Practical's:-**

15L


Introduction regarding practical's

1. Temperature  
To determine the temperature of the given water sample.
2. Colour  
To determine the Colour of the given water sample.
3. pH  
To determine the pH of the given water sample.
4. Conductivity  
To determine the Conductivity of the given water sample.
5. Total Dissolved Solids  
To determine the TDS of the given water sample.
6. Total Hardness  
To determine the TH of the given water sample.
7. Alkalinity  
To determine the Alkalinity of the given water sample.
8. Dissolve O<sub>2</sub>  
To determine the DO of the given water sample.
9. Chemical Oxygen Demand  
To determine the COD of the given water sample.

  
Course coordinator



  
H.O.D. Chemistry  
Head  
Department of Chemistry  
K.E.S.A.P.Sc. College Nagothane

  
Principal  
PRINCIPAL  
K.E.S. A. P. Science College  
Nagothane, Dist. Raigad (M.S.)



**K. E. S.**  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
Nagothane, Tal. Roha, Dist. Raigad, Pin.402106

**Department of Chemistry**

Date:-02/01/2018

**Notice**

All the students of T.Y.B.Sc (Regular) are hereby informed that Department of Chemistry is going to start a one month certificate course in water analysis in the college from the academic year 2017-18.

Details of this course is as follows.

Name of the Course: - **A certificate course in Water Analysis**

Duration : - **30 days**

Intake Capacity : - **25 Seats**

Course fees :- **Rs.100/-**


Co-ordinator :- **Dr.V.R. Jadhavar**

Interested students may give their names to Course Co-ordinator **Dr.V.R. Jadhavar** on or before 07/01/2018. Students those who complete the course successfully will get the certificate for the same.

The lectures and practical's of this course will start from 08/01/2018 onwards. The detail time table of this course will be displayed on chemistry notice board.

  
Course Coordinator  
**Dr.V.R.Jadhavar**

  
H.O.D. Chemistry  
**Dr.Dinesh V.Bhagat**  
Head  
Department of Chemistry  
K.E.S. Pradhan Science College Nagothane  
Chem  
Dept

  
Principal  
**Dr.Sandesh S.Gurav**  
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Department of Chemistry

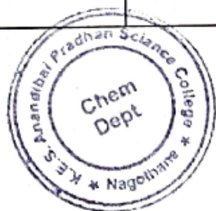
Date:-07/01/2018

Notice


Time Table for a Certificate Course in Water Analysis


(Jan to Feb 2018)

Days→ Time↓	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
3.00.to 4.00 pm	-----	-----	-----	Theory	Theory	Theory
3.00 to 5.00 pm	Practical	Practical	Practical	-----	-----	-----



  
Course Coordinator  
Dr. V.R. Jadhavar

  
H.O.D. Chemistry  
Dr. Dinesh V. Bhagat  
Head  
Department of Chemistry  
K.E.S.A.P.Sc. College Nagothane

  
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**K. E. S.**  
**ANANDIBAI PRADHAN SCIENCE COLLEGE**  
**Nagothane, Tal. Roha, Dist. Raigad, Pin. 402106**

**Department of Chemistry**

Date:-10/02/2018


**Notice**


All those students of T.Y.B.Sc (Regular) who have been completed a Certificate course in water analysis are hereby informed that there will be viva voce exam based on your course syllabus on 12<sup>th</sup> February 2018. After successful completion of journal and viva, you will get the certificate.

Note the same and be present for the via voce examination.



  
Course Coordinator  
Dr. V.R. Jadhavar

  
H.O.D. Chemistry  
Dr. Dinesh V. Bhagat  
Head  
Department of Chemistry  
K.E.S.A.P.Sc. College Nagothane

  
Principal  
Dr. Sandesh S. Gurav  
PRINCIPAL  
K.E.S. A. P. Science College  
Nagothane, Dist. Raigad (M.S.)

**K.E.S. Anandibai Pradhan Science College, Nagothane**  
**A Certificate Course in Water Analysis**  
**List of students enrolled 2017-18**

Sr.No.	STUDENT NAME	CLASS
1	MADHURI R. SHIRKE	T.Y.B.Sc.
2	ANKITA D.YADAV	T.Y.B.Sc.
3	AISHWARYA G.SHAAHASHANE	T.Y.B.Sc.
4	NIKITA S.DESHMUKH	T.Y.B.Sc.
5	DIPTI M. DIKALE	T.Y.B.Sc.
6	MANISH C.WALANJ	T.Y.B.Sc.
7	OMKAR H. TELANGE	T.Y.B.Sc.
8	YOGESH M.TELANGE	T.Y.B.Sc.
9	PANKAJ M.KAMBALE	T.Y.B.Sc.
10	ABHISHEK S. GUND	T.Y.B.Sc.
11	ABHAY S. JADHAV	T.Y.B.Sc.
12	AMRUTA D. DESHMUKH	T.Y.B.Sc.
13	SHIVANI M.DESHMUKH	T.Y.B.Sc.
14	SHWETA V.GHASE	T.Y.B.Sc.
15	KARAN T. KAMBALI	T.Y.B.Sc.
16	JATIN R. SHINDE	T.Y.B.Sc.
17	RAHUL U KAPSE	T.Y.B.Sc.
18	SAMIR S. SHELAR	T.Y.B.Sc.
19	ANIKET A. KOTWAL	T.Y.B.Sc.
20	VISHAL V.GHAVATE	T.Y.B.Sc.
21	PRANAV P. TELANGE	T.Y.B.Sc.
22	SANKET S. CHORGE	T.Y.B.Sc.
23	PARAG G. MENGAL	T.Y.B.Sc.
24	SUBHASH K.KOKALE	T.Y.B.Sc.
25	SAGAR P.MADHAV	T.Y.B.Sc.
26	PRATHAMESH D.MADHAVI	T.Y.B.Sc.
27	BHAGYSHRI M. MAHADIK	T.Y.B.Sc.
28	VAISHALI S.BAGUL	T.Y.B.Sc.
29	SANCHOTA S. MANE	T.Y.B.Sc.
30	RASHIKA S H. PARBALKAR	T.Y.B.Sc.

*[Handwritten Signature]*



*[Handwritten Signature]*  
 PRINCIPAL  
 K.E.S. A. Pradhan Science College  
 Nagothane, Dist. Raigad (M.S.)