

**B. K. BIRLA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS),
KALYAN**

CERTIFICATE COURSE



B. K. Birla College (Autonomous), Kalyan

Department of Zoology

Certificate Course

Hydrological Assessments: Principles and Techniques.

Aim: The course is aimed at Hydrological Assessments and learning the important techniques.

Course Objectives:

- 1) To provide the knowledge on physico chemical factors of water.
- 2) To provide the skills on hydrobiological assessment and teach the required techniques.

Duration 30 hrs (Credits-2).

Course Content

Sr. No.	Title of Lecture	Time
01	Water as resource, Introduction to water, Chemistry of water, Current status of precipitation in India and Climate Change	03 Hrs
02	Water Pollution: Understanding Water Quality Standards, Sources of Water Pollutions, Hazards of Water Pollutants.	06 Hrs
03	Identification of potential water pollution sites: Deliberations with participants (Power Point Presentations)	03 Hrs
05	Practical: Onsite and laboratory evaluation of Water Quality Parameters 1. pH 2. Temperature 3. Light Penetration (Lux meter) 4. Acidity 5. Alkalinity 6. Hardness 7. Salinity 8. Effect of temperature on dissolved CO ₂ 9. Effect of temperature on dissolved DO 10. Total Solids , Total Dissolved solids , Total Suspended Solids 11. Turbidity	15 Hrs
06	Analysis results of Water Quality of different sites: Case Studies and preparation of assessment report.	3 Hrs

Date of commencement: 25th February 2022

Dr. Dinesh Wanule
Course Coordinator

Dr. Vinod Narayane
Head, Department of Zoology

Dr. Avinash Patil
Principal

B. K. Birla College (Autonomous), Kalyan

Department of Zoology

Certificate Course

Hydrological Assessments: Principles and Techniques.

**Time Table
(1.30 pm -4.30 pm)**

Day and Date	Unit/Topic	Faculty
Friday, 25 th February 2022	Water as resource, Introduction to water, Chemistry of water,	Dr. Dinesh D. Wanule
Saturday, 26 th February 2022	Practical (pH, Temperature, Light Penetration (Lux meter).	Dr. Kantilal H. Nagare
Friday, 4 th March 2022	Current status of precipitation in India and Climate Change	Dr. Kranti R. Ozarkar
Saturday, 5 th March 2022	Acidity, Alkalinity	Dr. Kranti R. Ozarkar
Friday, 11 th March 2022	Water pollution, Understanding Water Quality Standards, Sources of Water Pollutions, Hazards of Water Pollutants.	Dr. Kantilal H. Nagare
Saturday, 12 th March 2022	Hardness, Salinity	D. Vinod S. Narayane
Saturday, 19 th March 2022	CO ₂ , DO	Dr. Dinesh D. Wanule
Friday, 25 th March 2022	Identification of potential water pollution sites: Deliberations with participants (Power Point Presentations)	Dr. Dinesh D. Wanule
Saturday, 26 th March 2022	Total Solids , Total Dissolved solids, Total Suspended Solids, Turbidity	Dr. Kantilal H. Nagare
Friday, 1st April 2022	Analysis results of Water Quality of different sites: Case Studies and preparation of assessment report.	D. Vinod S. Narayane
Saturday 8 th April 2022	Examination	Dr. Dinesh D. Wanule

Dr. Dinesh Wanule
(Course Coordinator)

Dr. Vinod S. Narayane
(Head, Department of Zoology)

B. K. Birla College (Autonomous), Kalyan
Department of Zoology

Certificate Course 2021-22

Hydrological Assessments: Principles and Techniques (BKBCCKCCZOO)

List of Students

Sr. No.	Name
1	DHONE NEHA KAILASH HARSHALA
2	VERMA KAVITA SANTOSH KUMAR KIRAN
3	MOTIWALA REYHAN SAHIR RAFAAT
4	DALAL FALGUNI SANJAY SHEETAL
5	KHAN BUSHRA ABDUR RAHMAN TANVEER
6	DHURAT SWARANGI RAGHUNATH MRUNAL
7	MALICK KASHMIRIBANO MOHAMMED FAIZANUL NAZNEEN
8	SAHOO SHUBHANGI GOURAHARI SATYABHAMA
9	JADHAV MAYURI SUDHIR SAYLI
10	JADHAV SANJANA SANJAY SANGITA
11	BHATBHARDE SHAHID HANIF ZAKIRA
12	CHATTERJEE NANDINI KRISHNAGOPAL CHAINA
13	DUBEY MUSKAN ASHOK SADHANA
14	KANNAUJIYA KISHAN ASHOK AARTI
15	SAHANI JYOTI MUNIB REEMA
16	HEGDE RAHUL JAYARAMA SUMITHRA
17	TELAVANE RUTIKA MANGEAH MEGHANA
18	SAYYED ARIBA FATIMA MOHAMMED ARSHAD NAZNI
19	PAWAR RATIKA MUMUND KARUNA
20	RAI RISHABH ANIL PREMLATA
21	PAWAR VAISHNAVI VILAS SUNILA
22	NINTAWARE SMRUTI PRATAP SUMAN
23	KANCHARLA LIKHITA MANMADHA PARVATI
24	SHAIKH SAIF ALI LAKHMUDDIN ZUBAIDA
25	PATEL AFRIN ABDULHAQ PARVEEN
26	JADE MANASI NARENDRA ARCHANA
27	PAWAR PRAVINA SURESH PUSHPALATA
28	SALVE NIKITA SUDHIR KAVITA
29	LAGADE GEETA SUNIL SADHANA
30	SAPATE POOJA KRISHNA SUMAN SAPATE
31	JAISAWAR AKASH SHRIKANT SHAKUNTALA
32	KARKI SHARMILA JIT BAHADUR LAXMI
33	BIJLANI HARSHA PRAKASH NISHA
34	SHRIVASTAV MANSI ALOKCHANDRA SHASHI
35	CHANDNANI MANJU NANDLAL JYOTI
36	GAUD SAPNA RAJESH INDU DEVI GAUD
37	UPADHYAY SHALINI ANIL UPADHYAY NITU UPADHYAY

38	JADHAV PRIYA PANDURANG SHAILA
39	BHARAMBE GUNJAN PRADEEP SMITA
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43	PATEL ANAM AFSAR SAAMI
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47	MORE SAKSHI VINOD SAVITA
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49	THAKRE ANAGHA PRAKASH PRIYA

B. K. Birla College (Autonomous), Kalyan						
Department of Zoology						
Certificate Course 2021-22						
Hydrological Assessments: Principles and Techniques (BKBCCKCCZOO)						
List of Students						
	Date	25-02-2022	26-02-2022	04-03-2022	05-03-2022	11-03-2022
Sr. No.	Name	P	P	A	A	P
1	DHONE NEHA KAILASH HARSHALA	P	A	P	P	P
2	VERMA KAVITA SANTOSH KUMAR KIRAN	P	A	A	A	P
3	MOTIWALA REYHAN SAHIR RAFAAT	P	A	P	P	P
4	DALAL FALGUNI SANJAY SHEETAL	P	P	P	P	A
5	KHAN BUSHRA ABDUR RAHMAN TANVEER	P	A	P	P	P
6	DHURAT SWARANGI RAGHUNATH MRUNAL	A	P	P	P	P
7	MALICK KASHMIRIBANO MOHAMMED FAIZANUL NAZNEEN	P	A	P	P	A
8	SAHOO SHUBHANGI GOURAHARI SATYABHAMA	P	P	P	A	P
9	JADHAV MAYURI SUDHIR SAYLI	P	P	A	P	P
10	JADHAV SANJANA SANJAY SANGITA	A	P	P	A	P
11	BHATBHARDE SHAHID HANIF ZAKIRA	A	P	P	P	P
12	CHATTERJEE NANDINI KRISHNAGOPAL CHAINA	P	P	P	P	A
13	DUBEY MUSKAN ASHOK SADHANA	A	P	A	P	P
14	KANNAUJIYA KISHAN ASHOK AARTI	P	P	P	P	A
15	SAHANI JYOTI MUNIB REEMA	A	P	P	P	P
16	HEGDE RAHUL JAYARAMA SUMITHRA	P	A	P	P	A
17	TELAVANE RUTIKA MANGEAH MEGHANA	P	P	A	P	P
18	SAYYED ARIBA FATIMA MOHAMMED ARSHAD NAZNI	P	P	A	A	P
19	PAWAR RATIKA MUMUND KARUNA	P	A	P	P	P
20	RAI RISHABH ANIL PREMLATA	P	A	A	A	P
21	PAWAR VAISHNAVI VILAS SUNILA	P	A	P	P	P
22	NINTAWARE SMRUTI PRATAP SUMAN	P	P	P	P	A
23	KANCHARLA LIKHITA MANMADHA PARVATI	P	A	P	P	P
24	SHAIKH SAIF ALI LAKHMUDDIN ZUBAIDA	A	P	P	P	P

25	PATEL AFRIN ABDULHAQ PARVEEN	P	A	P	P	A
26	JADE MANASI NARENDRA ARCHANA	P	P	P	A	P
27	PAWAR PRAVINA SURESH	P	P	A	P	P
28	SALVE NIKITA SUDHIR KAVITA	A	P	P	A	P
29	LAGADE GEETA SUNIL SADHANA	A	P	P	P	P
30	SAPATE POOJA KRISHNA SUMAN SAPATE	P	P	P	P	A
31	JAISAWAR AKASH SHRIKANT SHAKUNTALA	A	P	A	P	P
32	KARKI SHARMILA JIT BAHADUR LAXMI	P	P	P	P	A
33	BIJLANI HARSHA PRAKASH NISHA	A	P	P	P	P
34	SHRIVASTAV MANSI ALOKCHANDRA SHASHI	P	A	P	P	A
35	CHANDNANI MANJU NANDLAL JYOTI	A	P	P	P	P
36	GAUD SAPNA RAJESH INDU DEVI GAUD	P	A	P	P	A
37	UPADHYAY SHALINI ANIL UPADHYAY NITU UPADHYAY	P	P	A	P	P
38	JADHAV PRIYA PANDURANG SHAILA	P	P	A	A	P
39	BHARAMBE GUNJAN PRADEEP SMITA	P	A	P	P	P
40	MEGHWALI ANKET SADU MANISHA	P	A	A	A	P
41	ANSARI RUKHSAR SHAMSUDDIN JAMILA	P	A	P	P	P
42	MOKASHI ANKITA DATTATRAY VANDANA	P	P	P	P	A
43	PATEL ANAM AFSAR SAAMI	P	A	P	P	P
44	YADAV SUSHMA RAMCHANDRA SITA	A	P	P	P	P
45	KHAN SANA NASEEB NASEEM	P	A	P	P	A
46	YADAV BHARTI DHRUVCHAND AKALMATI	P	P	P	A	P
47	MORE SAKSHI VINOD SAVITA	P	P	A	P	P
48	VERMA REEMA DAHURAM RAJPATI DEVI	A	P	P	A	P
49	THAKRE ANAGHA PRAKASH PRIYA	A	P	P	P	P

Damule

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List of Students						
	Date	12-03-2022	19-03-2022	25-03-2022	26-03-2022	01-04-2022
Sr. No.	Name					
1	DHONE NEHA KAILASH HARSHALA	A	P	P	A	P
2	VERMA KAVITA SANTOSH KUMAR KIRAN	A	P	P	P	P
3	MOTIWALA REYHAN SAHIR RAFAAT	P	P	P	P	A
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49	THAKRE ANAGHA PRAKASH PRIYA	P	A	P	P	A

Damule

B.K BIRLA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), KALYAN



CERTIFICATE OF COMPLETION

The following awards are given to

DHONE NEHA KAILASH HARSHALA

For successfully completing Certificate Course in Hydrological Asssesment:
Principle and Techniques, conducted by Department of Zoology during the
year 2021-22

Dr. Dinesh Wanule
Course Coordinator

Dr. Vinod Narayane
Head of the Department

Dr. Avinash Patil
Principal

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VERMA KAVITA SANTOSH KUMAR KIRAN

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MOTIWALA REYHAN SAHIR RAFAAT

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DALAL FALGUNI SANJAY SHEETAL

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KHAN BUSHRA ABDUR RAHMAN TANVEER

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DHURAT SWARANGI RAGHUNATH MRUNAL

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CERTIFICATE OF COMPLETION

The following awards are given to

**MALICK KASHMIRIBANO MOHAMMED FAIZANUL
NAZNEEN**

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year 2021-22

Dr. Dinesh Wanule
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SAHOO SHUBHANGI GOURAHARI SATYABHAMA

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JADHAV MAYURI SUDHIR SAYLI

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JADHAV SANJANA SANJAY SANGITA

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BHATBHARDE SHAHID HANIF ZAKIRA

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The following awards are given to

CHATTERJEE NANDINI KRISHNAGOPAL CHAINA

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The following awards are given to

DUBEY MUSKAN ASHOK SADHANA

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The following awards are given to

KANNAUJIYA KISHAN ASHOK AARTI

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SAHANI JYOTI MUNIB REEMA

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HEGDE RAHUL JAYARAMA SUMITHRA

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The following awards are given to

TELAVANE RUTIKA MANGEAH MEGHANA

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SAYYED ARIBA FATIMA MOHAMMED ARSHAD NAZNI

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PAWAR RATIKA MUMUND KARUNA

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RAI RISHABH ANIL PREMLATA

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PAWAR VAISHNAVI VILAS SUNILA

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NINTAWARE SMRUTI PRATAP SUMAN

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KANCHARLA LIKHITA MANMADHA PARVATI

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Dr. Dinesh Wanule
Course Coordinator

Dr. Vinod Narayane
Head of the Department

Dr. Avinash Patil
Principal

B.K BIRLA COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS), KALYAN



CERTIFICATE OF COMPLETION

The following awards are given to

SHAIKH SAIF ALI LAKHMUDDIN ZUBAIDA

For successfully completing Certificate Course in Hydrological Asssesment:
Principle and Techniques, conducted by Department of Zoology during the
year 2021-22

Dr. Dinesh Wanule
Course Coordinator

Dr. Vinod Narayane
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The following awards are given to

PATEL AFRIN ABDULHAQ PARVEEN

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Dr. Dinesh Wanule
Course Coordinator

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The following awards are given to

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LAGADE GEETA SUNIL SADHANA

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KARKI SHARMILAJIT BAHADUR LAXMI

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BIJLANI HARSHA PRAKASH NISHA

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CHANDNANI MANJU NANDLAL JYOTI

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MEGHWALI ANKET SADU MANISHA

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ANSARI RUKHSAR SHAMSUDDIN JAMILA

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MOKASHI ANKITA DATTATRAY VANDANA

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PATEL ANAM AFSAR SAAMI

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YADAV SUSHMA RAMCHANDRA SITA

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