

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

CERTIFICATE COURSE



B. K. Birla College of Arts, Science and Commerce (Autonomous), Kalyan

Department of Chemistry

NOTICE

Date: 29/11/2021

All the students of any faculty are hereby informed that Department of Chemistry is offering a Certificate Course in "Industrial Chemical Analysis" for the second semester of A.Y.2021-22.

All interested students can give their names to Mr. B. V. Pathare, Course Coordinator for registration and further information on or before 10/01/2022.



Mr. B. V. Pathare

Course Coordinator



Dr. V. R. Khairnar

Head of Department

B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan

Department of Chemistry

Certificate Course in Industrial Chemistry

2021-22

Sr. No.	Heading	Particulars
1	Title of Course	Certificate Course in Industrial Chemical Analysis
2	Eligibility for Admission	12 th Science pass
3	Duration	30 Hrs (Theory- 15 Hrs, Practical- 15 Hrs)
4	Total Credit	2 (Theory- 1 credits, Practical- 1)
5	Course fees	Rs. 500 /-

Theory:

- Analysis of Industrial water
- Synthesis and analysis of 1. Aspirin 2. Paracetamol
- Spectroscopic techniques in the pharmaceutical and bioanalysis (UV, IR and NMR)
- Analytical techniques like chromatography (HPLC and GC)
- Chemical Calculations

Practicals:

- Preparation of solutions of various concentrations by using analytical balances.
- Thin layer chromatography
- Determine iron content in given sample by UV-Vis spectrophotometer
- Determine amount of residual chlorine present in drinking water
- To determine the percentage of Na_2CO_3 and NaOH in a mixture by titration against a Standard strong acid by two indicators
- Preparation and Characterization of Aspirin.

Objectives:

1. To infuse in the learner a spirit of inquiry into the fundamental aspects of the various core areas of Industry.
2. To make the learner proficient in analysing the various observations and chemical phenomena presented to him during the course.
3. To make the learner capable of solving problems.
4. To give the learner an opportunity to get hands on experience of the various concepts and processes in the industry.
5. To impart various skills of handling chemicals, reagents, apparatus, instruments and the care and safety aspects involved in such handling.
6. To make the learner capable of analysing and interpreting results of the experiments he conducts or performs.
7. To make the learner capable of acquiring or pursuing a source of livelihood like jobs in chemical industry.
8. To arouse the interest to pursue higher levels of learning in chemistry.

B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan	
Department of Chemistry	
Certificate Course in Industrial Chemical Analysis	
Academic Year- 2021-22	
Sr. No	Name
1	Darshan Prashant Khedkar
2	Sai Rajendra Dongare
3	Tejaswini Sanjay Chavan
4	Khan Abdul Qadir Abdul Samad
5	Shivansh Singh
6	Priya Dinkar Yadav
7	Mishra Abhishek Jagdish
8	Dishanka Ankush Tambade
9	Sayyed Alia Amjad Basari
10	Sayyed Sadaf Aira Mohamed
11	Sonal Dwarkanath Sante
12	Arshia Akhatar Sayyed
13	Gaurav Soni
14	Lalit Sadashiv Thakare
15	Kinjal Nilesh Dugade
16	Shweta Santosh Jikamade
17	Aniket Mishra
18	Ashish Ashok Gautam
19	Aaisha Parveen
20	Pooja Tiwari
21	Jagat Premsingh
22	Prateek Premanandhan R.
23	Vedant Anil Patil
24	Neha S. Pawar
25	Purva Jalindar Londhe
26	Shruti Santosh Mishra

B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan
Department of Chemistry
Certificate Course in Industrial Chemical Analysis (2021-22)
Attendance Sheet

Sr. no.	Name	07/10/22	08/10/22	15/10/22
1.	Darshan Prashant Khedkar	<u>Darshan</u>	<u>Darshan</u>	<u>Darshan</u>
2.	Sai Rajendra Dongare	<u>Sai</u>	<u>Sai</u>	<u>Sai</u>
3.	Tejeswini Sanjay Chavan	<u>Tejeswini</u>	<u>Tejeswini</u>	<u>Tejeswini</u>
4.	Khan abdul qadir Abdul samad	<u>Abul's</u>	<u>Abul's</u>	<u>Abul's</u>
5.	Shivansh singh			
6.	Priya Dinkar Yadav	<u>Priya</u>	<u>Priya</u>	<u>Priya</u>
7.	Mishra Abhishek Jagdish			
8.	Dishanka Ankush Tambade	<u>Dishanka</u>	<u>Dishanka</u>	<u>Dishanka</u>
9.	Sayyed Aliya Amjad Basari			
10.	Sayyed sadaf aira Mohamed			
11.	Sonal Dwarkanath sante	<u>Sonali</u>	<u>Sonali</u>	<u>Sonali</u>
12.	Arshia Akhatar Sayyed			
13.	Gaurav soni	<u>Gaurav</u>	<u>Gaurav</u>	<u>Gaurav</u>
14.	Lalit Sadashiv Thakare	<u>Lalit</u>	<u>Lalit</u>	<u>Lalit</u>
15.	Kinjal Nilesh Dugade			
16.	Shweta Santosh jikamade	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>
17.	Aniket Mishra	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>
18.	Ashish Ashok Gautam	<u>Ashish</u>	<u>Ashish</u>	<u>Ashish</u>
19.	Aaisha Parveen	<u>Aaisha</u>	<u>Aaisha</u>	<u>Aaisha</u>
20.	Pooja Tiwari	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>
21.	Jagat Premsingh	<u>Jagat</u>	<u>Jagat</u>	<u>Jagat</u>
22.	Prateek Premanandhan R.	<u>Prateek</u>	<u>Prateek</u>	<u>Prateek</u>
23.	Vedant Anil Patil	<u>Vedant</u>	<u>Vedant</u>	<u>Vedant</u>
24.	Neha s. Pawar			

25. Purna Jalindar Londhe Gondhe

26. Shweta Santosh Mishra Shweta

Gondhe

Shweta

Gondhe

Shweta

B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan
Department of Chemistry
Certificate Course in Industrial Chemical Analysis (2021-22)
Attendance Sheet

Sr. no.	Name	22/01/22	29/01/22	12/02/22
1.	Darshan Prashant Khedkar	<u>Darshan</u>	<u>Darshan</u>	<u>Darshan</u>
2.	Sai Rajendra Dongare	<u>Sai</u>	<u>Sai</u>	
3.	Tejeswini Sanjay Chavan	<u>Tejeswini</u>	<u>Tejeswini</u>	<u>Tejeswini</u>
4.	Khan abdul qadir Abdul samad	<u>Abdul</u>	<u>Abdul</u>	<u>Abdul</u>
5.	Shivansh singh			
6.	Priya Dinkar Yadav	<u>Priya</u>	<u>Priya</u>	<u>Priya</u>
7.	Mishra Abhishek Jagdish			
8.	Dishanka Ankush Tambade	<u>Dishanka</u>	<u>Dishanka</u>	<u>Dishanka</u>
9.	Sayyed Aliya Amjad Basari	<u>Aliya</u>	<u>Aliya</u>	<u>Aliya</u>
10.	Sayyed sadaf aira Mohamed			
11.	Sonal Dwarkanath sante	<u>Sonal</u>	<u>Sonal</u>	<u>Sonal</u>
12.	Arshia Akhatar Sayyed	<u>Arshia</u>	<u>Arshia</u>	<u>Arshia</u>
13.	Gaurav soni	<u>Gauravsoni...</u>	<u>Gauravsoni...</u>	<u>Gauravsoni...</u>
14.	Lalit Sadashiv Thakare	<u>Lalit</u>	<u>Lalit</u>	<u>Lalit</u>
15.	Kinjal Nilesh Dugade	<u>Kinjal</u>	<u>Kinjal</u>	<u>Kinjal</u>
16.	Shweta Santosh jikamade	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>
17.	Aniket Mishra	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>
18.	Ashish Ashok Gautam	<u>Ashish</u>	<u>Ashish</u>	<u>Ashish</u>
19.	Aaisha Parveen	<u>Aaisha</u>	<u>Aaisha</u>	<u>Aaisha</u>
20.	Pooja Tiwari	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>
21.	Jagat Premsingh	<u>Jagat</u>	<u>Jagat</u>	<u>Jagat</u>
22.	Prateek Premanandhan R.	<u>Prateek</u>	<u>Prateek</u>	<u>Prateek</u>
23.	Vedant Anil Patil	<u>Vedant</u>	<u>Vedant</u>	<u>Vedant</u>
24.	Neha s. Pawar	<u>Neha</u>	<u>Neha</u>	<u>Neha</u>

25 Purva Jalinder bondhe
26 Shweta Santosh Mishra

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B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan
Department of Chemistry
Certificate Course in Industrial Chemical Analysis (2021-22)
Attendance Sheet

Sr. no.	Name	26/04/22	05/03/22	12/03/22
1.	Darshan Prashant Khedkar	<u>Darshan</u>	<u>Darshan</u>	<u>Darshan</u>
2.	Sai Rajendra Dongare	<u>Sai</u>	<u>Sai</u>	<u>Sai</u>
3.	Tejeswini Sanjay Chavan			
4.	Khan abdul qadir Abdul samad	<u>Abdul</u>	<u>Abdul</u>	<u>Abdul</u>
5.	Shivansh singh			
6.	Priya Dinkar Yadav	<u>Priya</u>	<u>Priya</u>	<u>Priya</u>
7.	Mishra Abhishek Jagdish			
8.	Dishanka Ankush Tambade	<u>Dishanka</u>	<u>Dishanka</u>	<u>Dishanka</u>
9.	Sayyed Aliya Amjad Basari			
10.	Sayyed sadaf aira Mohamed			
11.	Sonal Dwarkanath sante	<u>Sonal</u>	<u>Sonal</u>	<u>Sonal</u>
12.	Arshia Akhatar Sayyed			
13.	Gaurav soni	<u>Gaurav</u>	<u>Gaurav</u>	<u>Gaurav</u>
14.	Lalit Sadashiv Thakare			
15.	Kinjal Nilesh Dugade			
16.	Shweta Santosh jikamade	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>
17.	Aniket Mishra	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>
18.	Ashish Ashok Gautam	<u>Ashish</u>	<u>Ashish</u>	<u>Ashish</u>
19.	Aaisha Parveen	<u>Aaisha</u>	<u>Aaisha</u>	<u>Aaisha</u>
20.	Pooja Tiwari	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>
21.	Jagat Premsingh	<u>Jagat</u>	<u>Jagat</u>	<u>Jagat</u>
22.	Prateek Premanandhan R.	<u>Prateek</u>	<u>Prateek</u>	<u>Prateek</u>
23.	Vedant Anil Patil	<u>Vedant</u>	<u>Vedant</u>	<u>Vedant</u>
24.	Neha s. Pawar			

25 Purva Jalindar Londhe

26 Shweta Santosh Mishra

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Sr. no.	Name	14/03/22	15/03/22	19/03/22
1.	Darshan Prashant Khedkar	<u>Darshan</u>	<u>Darshan</u>	<u>Darshan</u>
2.	Sai Rajendra Dongare	<u>Sai</u>	<u>Sai</u>	<u>Sai</u>
3.	Tejeswini Sanjay Chavan	<u>Tejeswini</u>	<u>Tejeswini</u>	<u>Tejeswini</u>
4.	Khan abdul qadir Abdul samad	<u>Abdul</u>	<u>Abdul</u>	<u>Abdul</u>
5.	Shivansh singh	<u>Shivansh</u>	<u>Shivansh</u>	<u>Shivansh</u>
6.	Priya Dinkar Yadav	<u>Priya</u>	<u>Priya</u>	<u>Priya</u>
7.	Mishra Abhishek Jagdish	<u>Mishra</u>	<u>Mishra</u>	<u>Mishra</u>
8.	Dishanka Ankush Tambade	<u>Dishanka</u>	<u>Dishanka</u>	<u>Dishanka</u>
9.	Sayyed Aliya Amjad Basari			
10.	Sayyed sadaf aira Mohamed	<u>Sadaf</u>	<u>Sadaf</u>	<u>Sadaf</u>
11.	Sonal Dwarkanath sante	<u>Sonal</u>	<u>Sonal</u>	<u>Sonal</u>
12.	Arshia Akhatar Sayyed	<u>Arshia</u>	<u>Arshia</u>	<u>Arshia</u>
13.	Gaurav soni	<u>Gaurav</u>	<u>Gaurav</u>	<u>Gaurav</u>
14.	Lalit Sadashiv Thakare	<u>Lalit</u>		
15.	Kinjal Nilesh Dugade	<u>Kinjal</u>	<u>Kinjal</u>	<u>Kinjal</u>
16.	Shweta Santosh jikamade	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>
17.	Aniket Mishra	<u>Aniket</u>	<u>Aniket</u>	<u>Aniket</u>
18.	Ashish Ashok Gautam	<u>Ashish</u>	<u>Ashish</u>	<u>Ashish</u>
19.	Aaisha Parveen	<u>Aaisha</u>	<u>Aaisha</u>	<u>Aaisha</u>
20.	Pooja Tiwari	<u>Pooja</u>	<u>Pooja</u>	<u>Pooja</u>
21.	Jagat Premsingh	<u>Jagat</u>	<u>Jagat</u>	<u>Jagat</u>
22.	Prateek Premanandhan R.	<u>Prateek</u>	<u>Prateek</u>	<u>Prateek</u>
23.	Vedant Anil Patil	<u>Vedant</u>	<u>Vedant</u>	<u>Vedant</u>
24.	Neha s. Pawar			
25.	Purni Jalindar Lonake	<u>Purni</u>	<u>Purni</u>	<u>Purni</u>
26.	Shweta Santosh Mishra	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>

B. K. Birla College of Arts, Science & Commerce (Autonomous), Kalyan
Department of Chemistry
Certificate Course in Industrial Chemical Analysis (2021-22)
Attendance Sheet

Sr. no.	Name	21/01/22	22/01/22	23/01/22
1.	Darshan Prashant Khotkar	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
2.	Sai Rajendra Dongare	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
3.	Tejswini Santosh Chavan	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
4.	Khan Abdul Qadir Abdul Samad	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
5.	Shivansh Singh	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
6.	Priya Dinkar Yadav	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
7.	Mohita Abhishek Jagdish	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
8.	Dashrutha Anirudh Tambade	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
9.	Sayyed Aliya Amjad Husari	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
10.	Sayyed Sadaf Aisa Mohamed	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
11.	Sonal Dwarkanath Sarite	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
12.	Arshia Akhtar Sayyed	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
13.	Gaurav Soni	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
14.	Lalit Sadashiv Thakare	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
15.	Kinjal Nilesh Dugade	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
16.	Shweta Santosh Jikarade	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
17.	Aniket Mishra	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
18.	Ashish Ashok Gautam	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
19.	Aashis Parveen	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
20.	Pooja Tiwari	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
21.	Jugal Prem Singh	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
22.	Prateek Premnandhan R.	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
23.	Vedant Anil Patil	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
24.	Neha S. Pawar	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
25.	Pooja Dinkar Leodha	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>
26.	Shubh S. Mishra	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Darshan Prashant Khedkar

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Sai Rajendra Dongare

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Tejaswini Sanjay Chavan

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Khan Abdul Qadir Abdul Samad

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Shivansh Singh

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Priya Dinkar Yadav

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Mishra Abhishek Jagdish

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Dishanka Ankush Tambade

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Sayyed Alia Amjad Basari

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Sayyed Sadaf Aira Mohamed

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Sonal Dwarkanath Sante

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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

CERTIFICATE

of completion

WE ARE PROUDLY PRESENT THIS TO

Arshia Akhatar Sayyed

WHO HAS SUCCESSFULLY COMPLETED 30 HOURS TRAINING IN CERTIFICATE COURSE ON INDUSTRIAL CHEMICAL ANALYSIS, CONDUCTED BY DEPARTMENT OF CHEMISTRY FOR THE YEAR 2021-22

Mr. B.V Pathare
Course Coordinator

Dr. V.R Khairnar
Head of the Department

Dr. Avinash Patil
Principal



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CERTIFICATE

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Course Coordinator

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