

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

## **CERTIFICATE COURSE**



# **B. K. BIRLA COLLEGE (Autonomous), KALYAN**

## **DEPARTMENT OF BIOANALYTICAL SCIENCES**

### **Certificate Course on Chromatography**

**Term I (2022-23)**

### **Outline of course (2 Credits- 30 Hrs.)**

<b>Sr. No.</b>	<b>Name of Instrument</b>	<b>Content</b>
1	High Performance Liquid Chromatography (HPLC)	<ul style="list-style-type: none"><li>• Introduction on Instrument – Its Principle, instrumentation, working, Software, Applications, Advantage, Disadvantage, Troubleshooting, Simple eggs, and explanation in detail.</li><li>• Working demonstration of instruments</li><li>• Hands on Training (practical Performance) on Instrument and Software handling</li></ul>
2	Gas Chromatography (GC)	
3	Flame Photometer	
4	Atomic Absorption Spectrophotometer (AAS)	

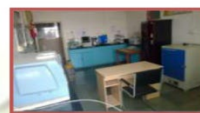
### **Course Outcome**

- Define and explain principles of basic chromatography and Spectroscopy
- Explain and compare types of Chromatographic and spectroscopic techniques used in drug evaluation.
- Describe and illustrate Detailed hardware and working of analytical techniques like HPLC , GC, Flame Photometry and AAS.
- Analyse and understand practical application of all he mentioned techniques

**B. K. BIRLA COLLEGE (AUTONOMOUS), KALYAN**  
**DEPARTMENT OF BIOANALYTICAL SCIENCES**



Certificate Course on  
**Analytical Instrumentation**



**CERTIFICATE COURSE ON CHROMATOGRAPHY**

**Extensive training on the following Instruments:**

- Thin Layer Chromatography (TLC)
- High Performance Thin Layer Chromatography (HPTLC)
- High performance Liquid Chromatography (HPLC)
- Gas chromatography (GC)

**HIGHLIGHTS:**

- Limited number of students per batch
- Learn from the trained analysts
- More focus on practical applications than theoretical knowledge

Fees for the course : Rs. 500/-

Registration forms will be available at 4<sup>th</sup> Floor, IT Building, Dept. of Bioanalytical Sciences, BKBC

Join the whats app group for further details: <https://chat.whatsapp.com/B7sJVgyTj1ZKNkpw1FvZ7g>

Last date of registration : 5<sup>th</sup> September 2022

# **B. K. BIRLA COLLEGE (Autonomous), KALYAN**

## **DEPARTMENT OF BIOANALYTICAL SCIENCES**

### **Certificate Course on EHS Concerns related to Analytical Laboratories**

#### **Term II (2020-21)**

#### **Outline of course (2 Credits- 30 Hrs.)**

<b>Sr. No.</b>	<b>Topic</b>	
	<ol style="list-style-type: none"><li>1. Strategies to reduce environmental impact of Bioanalytical laboratory</li><li>2. Standards of Laboratory Safety (Including Biosafety Levels)</li><li>3. Overview of guidelines for laboratories handling Radioactive substances</li><li>4. Introduction to ISO 14001 and OSHAS 18001.</li><li>5. Introduction to Environment Impact Assessment &amp; Reporting</li><li>6. Biodiversity: Red Data Book, Endemic and endangered Medicinal Plant</li><li>7. Species, Conservation and sustainable use of medicinal raw materials,</li><li>8. Introduction to Wildlife Act of India &amp; CITES</li><li>9. Carbon footprints and Carbon credits.</li></ol>	<b>30 Hrs.</b>

### **Course Outcome**

- Define and explain importance of Environment , Health and Safety .
- Explain standards of laboratory safety.
- Describe and illustrate procedure for Environment audit.
- Analyse and understand importance and calculations of carbon credits and footprints for any industry





B. K. BIRLA COLLEGE (Autonomous), KALYAN  
**Department of Bioanalytical Sciences**

**Certificate Course**  
**in**  
*EHS concerns related to Analytical Laboratory*

**Prominent benefits of a certificate course:**

- Designed as per the current market needs.
- Expanded horizon of opportunities.
- Opportunity to interact with industry experts.

Free  
Registration  
Flexible Lecture  
timings

Last date of registration : 10<sup>th</sup> January 2023

Registration link :

[https://docs.google.com/forms/d/e/1FAIpQLSeeFuARyLYCux2ExzIPbxolo8iOJ9\\_Z69P5Oh6kRkpVSOZdA/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSeeFuARyLYCux2ExzIPbxolo8iOJ9_Z69P5Oh6kRkpVSOZdA/viewform?usp=sf_link)

Contact Details : Dr. Sonali Patil -9768837968, Ms. Shruti Shah -9867123500

**B. K. Birla College (Autonomous) Kalyan**

**Certificate Course in Basic Instruments 2022 - 2023**

<b>Sr. No</b>	<b>Name of Students</b>
1	Pooja Anil Waghmare
2	Sneha Santosh Kamble
3	Reuti Dinesh Raut
4	Sarika Shantaram Wanjale
5	Aniruddha Jitendra Jagtap
6	Rutuja Appasaheb Shinde
7	Kishori Shivaji Raut
8	Harshal Raju Chaudhari
9	Thube Nikita Devram
10	Waje Yogita Ashok
11	Vaishnavi R. Zolambekar
12	Rohit Sunil Suryavanshi
13	Suraj Suresh Kamble
14	Shweta Manohar Deshmukh
15	Priyanka Sanjay Dubey
16	Sneha Prasad
17	Ruhi Rakesh Gore
18	Deshmukh Sayali Dhananjay
19	Deepak Kamlesh Upadhyay
20	Sanket Dipak Mhase
21	Sojwal Ramakant Patil
22	Shubham Maruti Raut
23	Tanvi Sunil Ballal
24	Tasmia Imran Ahmed
25	Sumit Deepak Bhangare
26	Bhushan Sunil Shirname

27	Aniket Suresh Pujari
28	Bhoir Kishor Jaywant
29	Sanket Jalindar Dighe
30	Dinesh Dnyandev Bhabad
31	Sarthak Umeshchandra Kulkarni
32	Akash Nilesh Nivdunge
33	Kesarwani Apeksha Ashok
34	Shubham Ganesh Patole
35	Shristi Nilesh Pardeshi
36	Saba Kifayatullah Khan
37	Sakshi R. Chhattani
38	Ajay Bhagvan Dinkar
39	Akash Shrikant Jaiwar
40	Laxmi Subhash Bidarkundi
41	Sanika S. Kesarkar
42	Pooja Chandrakant Vishwakarma
43	Harshal B. Gatir
44	Tejaswi Navnath Salunke
45	Vaishnavi Navnath Salunke
46	Nilam Shankar Sonawane
47	Fatema M. Bhavnagarwala
48	Manavi Sanjay Satale
49	Joshi Prafull Ankush
50	Kanchan Ankush Tambade
51	Nidhi Amit Pandey

ices  
(2022-23).

# Chromatography

Name of Certificate Course: <u>Chemotography</u>	
Sr. No.	Name of the Participant
1.	Pooja Anil Waghmare
2.	Sneha Santosh Kamble
3.	Reuti Dinesh Raut
4.	Sarika Shantaram Wanjale
5.	Aniruddha Jitendra Jagtap
6.	Rutuja Appasaheb Shinde
7.	Kishori Shivaji Raut
8.	Harshal Raju Chaudhari
9.	Thube Nikita Devram
10.	Waje Yogita Ashok
11.	Vaishnavi R. Zolambekar
12.	Rohit Sunil Suryavanshi
13.	Suraj Suresh Kamble
14.	Shweta Manohar D
15.	Priyanka Sanjay Dubey
16.	Sneha Prasad
17.	Ruhi Rakesh Gore



3. Pawar Vidhnya									
19. Nikam Shruti	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam	Nikam
20. Manwar Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha
21. Gupta Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha
22. Rathod Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha	Pratiksha
23. Khan Saima	S.Khan	S.Khan	S.Khan	S.Khan	S.Khan	S.Khan	S.Khan	S.Khan	S.Khan
24. Patil Jyotsna	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
25. Patil Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi	Manasi
26. Yelmar Yogita	Yogita	Yogita	Yogita	Yogita	Yogita	Yogita	Yogita	Yogita	Yogita
27. Nalawade Shraddha	SN	SN	SN	SN	SN	SN	SN	SN	SN
28. Hiwale Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin	Nitin
29. Manjarekar Parisa	Parisa	Parisa	Parisa	Parisa	Parisa	Parisa	Parisa	Parisa	Parisa
30. Karale Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada	Harshada
31. Bachar Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma	Sushma
32. Patil Chaitali	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
33. Yadav Neha	Neha		Neha	Neha	Neha	Neha	Neha	Neha	Neha
34. Kamble Janvi		Janvi		Janvi		Janvi		Janvi	
35. Birari Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal	Kajal
36. More Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
37. Patil Diksha	Patil	Patil		Patil		Patil		Patil	
38. Tiwari Nandini	Nandini	Nandini		Nandini		Nandini		Nandini	

38.	Ajay Bhagyan Dinkar	A.B.D.	A.B.D.		A.B.D.	A.B.D.	A.B.D.	A.B.D.	A.B.D.	
39.	Akash Shrikant Jaivar	Jaiwar	Jaiwar	Jaiwar	Jaiwar	Jaiwar	Jaiwar	Jaiwar	Jaiwar	
40.	Laxmi Subhash B	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	Laxmi	
41.	Sanika S. Kesarkar	Kesarkar	Kesarkar	Kesarkar	Kesarkar	Kesarkar	Kesarkar	Kesarkar	Kesarkar	
42.	Pooja Chandrakant V	Pooj.	Pooj.	Pooj.	Pooj.	Pooj.	Pooj.	Pooj.	Pooj.	
43.	Harshal B. Gatir		Batir	Batir		Batir		Batir		
44.	Tejaswi Navnath Salunke	Tesu	Tesu	Tesu	Tesu	Tesu	Tesu	Tesu	Tesu	
45.	Vaishnavi Navnath S	vaidhanvi	vaidhanvi	vaidhanvi	vaidhanvi	vaidhanvi	vaidhanvi	vaidhanvi	vaidhanvi	
46.	Nilam Shankar Sonawane	Nissanwanani	Nissanwanani	Nissanwanani	Nissanwanani	Nissanwanani	Nissanwanani	Nissanwanani	Nissanwanani	
47.	Fatema M. B	Fatemat	Fatemat	Fatemat	Fatemat	Fatemat	Fatemat	Fatemat	Fatemat	
48.	Manavi Sanjay Satale	Manavi		Manavi	Manavi	Manavi	Manavi	Manavi	Manavi	
49.	Joshi Prafull Ankush	Ashis	Ashis	Ashis	Ashis	Ashis	Ashis	Ashis	Ashis	
50.	Kanchan Ankush T	Panchan	Panchan	Panchan	Panchan	Panchan	Panchan	Panchan	Panchan	
51.	Nidhi Amit Pandey	NPandey	NPandey		NPandey	NPandey	NPandey	NPandey	NPandey	



Sr. No.	Name of the Participant
1.	Bhairgonda Nagaraj
2.	Patil Vishakhha
3.	Dhivar Prema
4.	Karne Rutuja
5.	Mirge Pranita
6.	Khadre Lilavati
7.	Gaikwad Ruchita
8.	Pathak Dhriti
9.	Singh Reshma
10.	Sarkar Mowmita
11.	Goud Ankita
12.	Parab Aachal
13.	Gangurde Pratiksha
14.	Marathe Nikita
15.	Yadav Pooja
16.	Jadhav Ankita
17.	Isame Pranali



Sr No.	Name	Mother's Name	Father's Name	Religion
18.	Deshmukh Sayali D			
19.	Deepak Kamlesh Upadhyay			
20.	Sanket Dipak Mhasse			
21.	Sojwal Ramakant Patil			
22.	Shubham Mantri Raut			
23.	Tamri Sunil Ballal			
24.	Tasnia Imran Ahmed			
25.	Sumit Deepak Bhangare			
26.	Bhushan Sunil Shitame			
27.	Aniket Suresh Pujari			
28.	Bhoir Kishor Jaywant			
29.	Sanket Jalindar Dighe			
30.	Dinesh Dnyandeve Bhavad			
31.	Sarthak Umeshchandra Kulkarni			
32.	Aakash Nilesh Nivdunge			
33.	Kesarwani Apeksha A			
34.	Shubham Ganesh Patole			
35.	Shristi Nilesh Pardeshi			
36.	Saba Kiriyatullah Khan			
37.	Sakshi R. Chhattarani			





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

# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Pooja Anil Waghmare*

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**FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',  
ORGANIZED BY DEPARTMENT OF BIOANAL FOR THE  
YEAR 2022-23**

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DR. AVINASH PATIL  
PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Ineha Santosh Kamble*

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THIS IS PRESENTED TO :

*Reuti Dinesh Raut*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Sarika Shantaram Wanjale*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Aniruddha Jitendra Jagtap*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Rutuja Appasaheb Shinde*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Kishori Shivaji Raut*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Harshal Raju Chaudhari*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Thube Nikita Devram*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Waje Yogita Ashok*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Vaishnavi R. Lolambekar*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Rohit Sunil Suryavanshi*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Suraj Suresh Kamble*

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Shweta Manohar Deshmukh*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Priyanka Sanjay Dubey*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Sneha Prasad*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Ruhi Rakesh Gore*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Deshmukh Sayali Dhananjay*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Deepak Kamlesh Upadhyay*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Sanket Dipak Mhase*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Sojwal Ramakant Patil*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Shubham Maruti Raut*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Tanvi Sunil Ballal*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Tasmia Imran Ahmed*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Sumit Deepak Bhangare*

---

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO :

*Bhushan Sunil Shirname*

---

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