## **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.)

Sr.	Name of Instrument	Content
No.		
1	High Performance Liquid Chromatography (HPLC)	• Introduction on Instrument – Its Principle, instrumentation, working, Software, Applications,
2	Gas Chromatography (GC)	Advantage, Disadvantage, Troubleshooting, Simple egs, and explanation in detail.
3	Flame Photometer	<ul><li>Working demonstration of instruments</li><li>Hands on Training (practical</li></ul>
4	Atomic Absorption Spectrophotometer (AAS)	Performance) on Instrument and Software handling

#### **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/-

 $Registration \ forms \ will be available \ at \ 4^{th} \ Floor, IT \ Building, Dept. \ of \ Bioanalytical \ Sciences, BKBCK$   $Join \ the \ whats \ app \ group \ for \ further \ details: \ \underline{https://chat.whatsapp.com/B7sJVgvTj1ZKNkpw1FvZ7g}$ 

Last date of registration :  $5^{th}$  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.)

Sr.	Торіс	
No.		
	Strategies to reduce environmental impact of Bioanalytical laboratory	30 Hrs.
	2. Standards of Laboratory Safety (Including Biosafety Levels)	
	3. Overview of guidelines for laboratories handing Radioactive substances	
	4. Introduction to ISO 14001 and OSHAS 18001.	
	5. Introduction to Environment Impact Assessment & Reporting	
	6. Biodiversity: Red Data Book, Endemic and endangered Medicinal Plant	
	7. Species, Conservation and sustainable use of medicinal raw materials,	
	8. Introduction to Wildlife Act of India & CITES	
	9. Carbon footprints and Carbon credits.	

#### **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 Science

**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/1FAlpQLSeeFuARyLYCux2ExzIPbxolo8iOJ9\_Z6 9P5Oh6kRkpkVSOZdA/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**

Sr. No	Name of Students
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

# B. K. Birla College (Autonomous), Kalyan Department of Bioanalytical Sciences

Sr. No. 17. 16. 15. 14. 13 12. 9 00 .7 6 Ç 4 Name of Certificate Course: Ruhi Rakesh Gore Sneha Prasad Priyanka Sanjay Dubey Shweta Manohar D Suraj Suresh Kamble Rohit Sunil Suryavanshi Vaishnavi R. Zolambekar Waje Yogita Ashok Thube Nikita Devram Harshal Raju Chaudhari Kishori Shivaji Raut Rutuja Appasaheb Shinde Sneha Santosh Kamble Pooja Anil Waghmare Name of the Participant Reuti Dinesh Raut Aniruddha Jitendra Jagtap Sarika Shantaram Wanjale Phit pashinde Shirt Sings The start VOL DELENA (Hollowedhan) the true Serendal B. Grankwage hogytra Sme Shows THE PERIOD OF TH property Chromato graphy , Ryt yours NO MENT Pohit Blockmort Shower THE STATE OF THE S Duandari Smartare Story of Street And the Andrew RABAMAN PARMINDE PARMINDE & March the state (All hand down) Quarkrant dowit Nogharming. poor Share to To the second guerieu Eurarious suerious Suentose Suentes Eurarious Smelia By by Series THE PROPERTY traffer Varytoon (A) & part Buck mark Varkerwille Negoties. Synchol Parelo Sout Posit Atopal Broked Books (Baston Biylowyers ST. ST. · road Medinandali Que proporto RAGNinda paand greeks. 18 Short Land franks. BOTH BOTH Storata frant " (File Jacobert Powit Northanni of micho Joshta. ( Printer ) Printers Bring Bring & Trance (2022 - 23)Short of Perhinde Brackway Letrendray Colombia Verghailand. - The start the same **D** 1000 Mucher A LIVE Swava personina profinite personial powet By copyra Roty Rist " Workhawir Pringeria Shweter Legita 1 polit Strate 8 windars House Smerre Break way Ja Mariana The second P regita Shoveto AGE . myanier Swows prout A Control Broxford を Vallard Yogita R Lowit Drueta 12

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Pooja Anil Waghmare

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

· Lini.

DR. AVINASH PATIL
PRINCIPAL



Fatil



## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Ineha Santosh Kamble

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

· Chi.

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Reuti Dinesh Raut

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YEAR 2022-23

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sarika Shantaram Wanjale

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

·in.

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Aniruddha Jitendra Jagtap

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

in.

DR. AVINASH PATIL
PRINCIPAL



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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Rutuja Appasaheb Shinde

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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DR. AVINASH PATIL
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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Kishori Shivaji Raut

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Harshal Raju Chaudhari

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Thube Nikita Devram

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

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DR. AVINASH PATIL
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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Waje Yogita Ashok

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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DR. AVINASH PATIL
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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Vaishnavi R. Zolambekar

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

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Rohit Sunil Suryavanshi

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

· Chi.

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Suraj Suresh Kamble

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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DR. AVINASH PATIL
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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Shweta Manohar Deshmukh

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:

Priyanka Sanjay Dubey

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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DR. AVINASH PATIL
PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Ineha Prasad

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Ruhi Rakesh Gove

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YEAR 2022-23

· Chi.

DR. AVINASH PATIL
PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Deshmukh Sayali Dhananjay

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

in.

DR. AVINASH PATIL
PRINCIPAL



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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Deepak Kamlesh Upadhyay

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

· Lini.

DR. AVINASH PATIL
PRINCIPAL



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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sanket Dipak Mhase

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:

Sojwal Ramakant Patil

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Shubham Maruti Raut

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Tanvi Sunil Ballal

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

in.

DR. AVINASH PATIL
PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Tasmia Imran Ahmed

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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YEAR 2022-23

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sumit Deepak Bhangare

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

in.

DR. AVINASH PATIL
PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Bhushan Sunil Shirname

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

in.

DR. AVINASH PATIL
PRINCIPAL



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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Aniket Suresh Pujari

FOR COMPLETING CERTIFICATE COURSE ON 'CHROMATOGRAPHY',
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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Bhoir Kishor Jaywant

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sanket Jalindar Dighe

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Dinesh Dnyandev Bhabad

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sarthak Umeshchandra Kulkarni

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Akash Nilesh Nivdunge

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Kesarwani Apeksha Ashok

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Shubham Ganesh Patole

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## **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Shristi Nilesh Pardeshi

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Saba Kifayatullah Khan

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sakshi R. Chhattani

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Ajay Bhagvan Dinkar

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Akash Shrikant Jaiwar

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Laxmi Subhash Bidarkundi

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Sanika S. Kesarkar

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Pooja Chandrakant Vishwakarma

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Harshal B. Gatir

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Tejaswi Navnath Salunke

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Vaishnavi Navnath Salunke

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Nilam Shankar Sonawane

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Fatema M. Bhavnagarwala

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Manavi Sanjay Satale

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

Joshi Prafull Ankush

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# **CERTIFICATE OF COMPLETION**

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Kanchan Ankush Tambade

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# **CERTIFICATE OF COMPLETION**

THIS IS PRESENTED TO:

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