

**DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI,  
NAGPUR**

**DEPARTMENT OF BIOCHEMISTRY AND  
BIOTECHNOLOGY**

**Certificate Course On Basic Analytical Techniques**

**2023-2024**

**(25-30 September 2023)**

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**A. Schedule of the programme**

**DAY 1: 25<sup>th</sup> September 2023 (ALL STUDENTS SHOULD PRESENT)**

<b>SR</b>	<b>TIME</b>			
<b>REGISTRATION AT 10:30 AM IN DEPT OF BIOTECHNOLOGY</b>				
1	10 AM TO 11:30 AM	Inauguration (Room No 1)	At the hands of Principal Dr B A Mehere. Introductory remarks by Dr Utpal Dongre (HOD).	
<b>Lectures</b>		<b>TOPICS</b>		<b>DELIVER BY</b>
2	11:30 Am to 1:30 PM	Lecture 1	Basics about life sciences.	Prof. Mrs. B A Mehere
4	2:00 PM to 3:00 PM	Lecture 2	Importance of analytical techniques in Life sciences	Dr D N Begde
5	3:30:00 PM to 5:00 PM	Lecture 3	Applications of laboratory techniques in life sciences	Prof. P Hirapure

**Day 2: 26<sup>th</sup> September 2023**  
**(Teacher: Dr Utpal Dongre)**

<b>SR</b>	<b>TIME</b>	<b>PROTOCOLS</b>
1	10 AM TO 1 PM	Understanding the theory and definitions to prepare molar chemicals in the laboratory.
2	2 PM TO 5 PM	Practical in the laboratory to prepare molar solutions.

**Day 3: 27 September 2023****Teacher: Mr Pradip Hirapure and Ms. Rita Lakkakul**

SR	TIME	PROTOCOLS
1	10 AM TO 1 PM	Understanding the theory and definitions to prepare Normal chemicals in the laboratory.
2	2 PM TO 5 PM	Practical in the laboratory to prepare Normal solutions.

**Day 4: 28 September 2023****Teacher: Mr. Rohan Thaware and Ms. Swati Chimurkar**

SR	TIME	PROTOCOLS
1	10 AM TO 1 PM	Understanding the theory and definitions to prepare weight/volume ratio chemicals (using specific gravity) in the laboratory.
2	2 PM TO 5 PM	Practical in the laboratory to prepare Normal solutions.

**Day 5: 29/September 2023****Teacher: Dr Utpal Dongre and Ms. Rita Lakkakul**

SR	TIME	PROTOCOLS
1	10 AM TO 5 PM	Batchwise demo to students about Animal cell culture laboratory techniques.

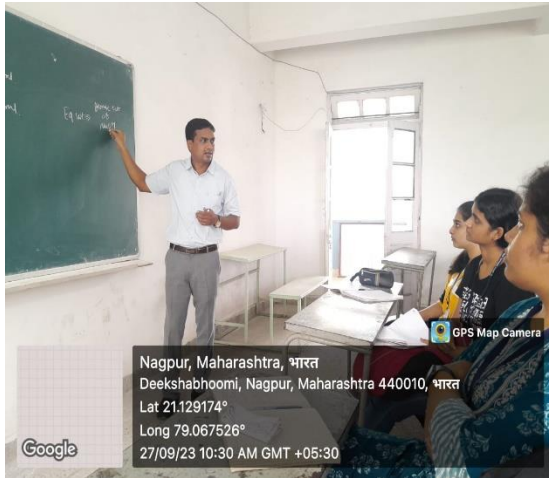
**Day 6: 30 September 2023****Teacher: Mr Pradip Hirapure and Ms swati Chimurkar**

SR	TIME	PROTOCOLS
1	10 AM TO 3 PM	Batchwise demo to students about Plant tissue culture laboratory techniques.
2	3-5PM	Valedictory and certificate distribution

**B. Brief Report:**

Department of Biochemistry and Biotechnology organized a 6 days certificate course on Basic analytical techniques. This course was of 42 hours and total 115 students were participated. All teachers of the departments contributed in this event. The modules of the program is mentioned above. This certificate course was free of cost and all students of life sciences have participated in the program.

### C. Glimpses of the program:



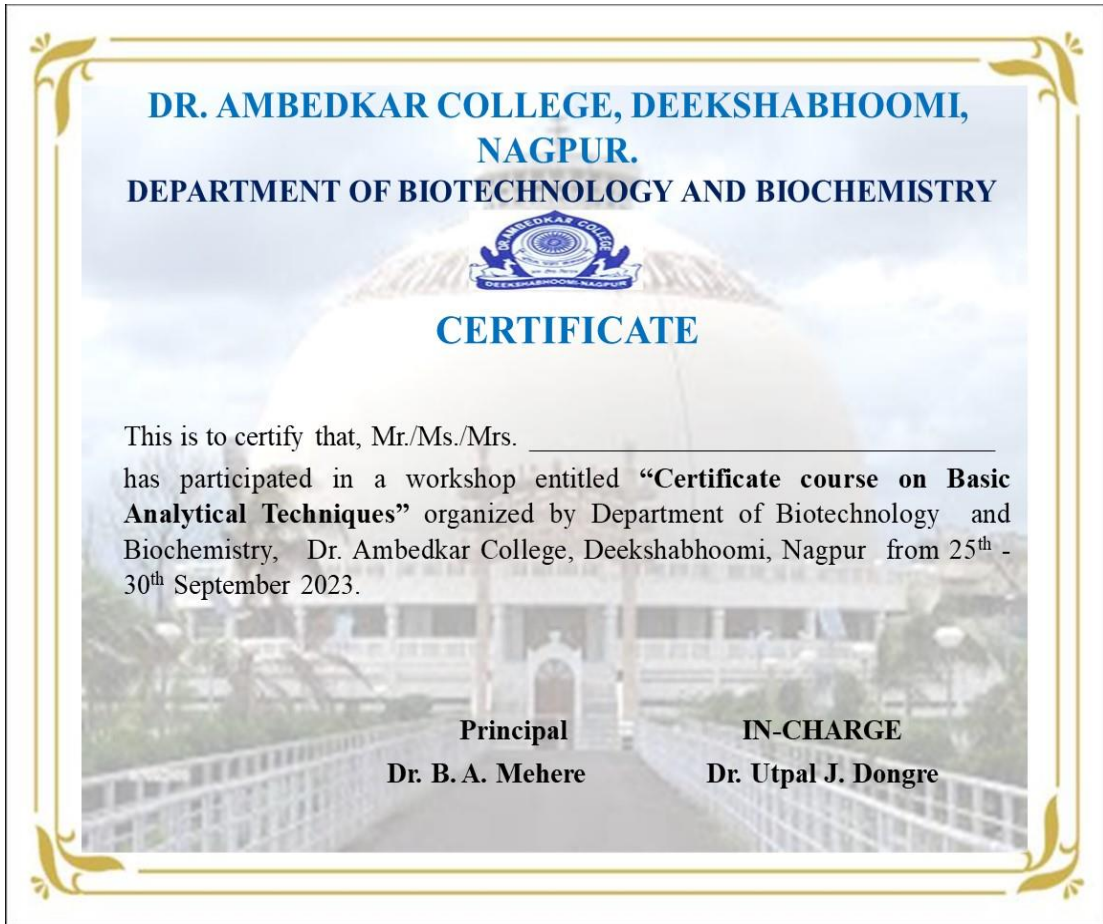
D. Student Attendance:

DR AMBEDKAR COLLEGE DEEKHSABHOOMI NAGPUR		
DEPARTMENT OF BIOCHEMISTRY AND BIOTECHNOLOGY		
CERTIFICATE COURSE ON Basic Analytical Techniques		
25-30 September 2023		
Student attendance		
SN	Name of the students	Signature
1	Nitya .U. Dongale	<u>Ndongale</u>
2	Prachi .S. Ingole	<u>Pingole</u>
3	Suhana Wankhede	<u>Suhana</u>
4	Vidya .I. Mulmule	<u>Vmulmule</u>
5	Ashpita Bode	<u>ABode</u>
6	Neha .D. Yadav	<u>Nyadav</u>
7	Shreyas .P. Shende	<u>Sshende</u>
8	Achal Takande	<u>ATakande</u>
9	Tanvi Nagre	<u>TNagre</u>
10	Shruti Khanale	<u>SKhanale</u>
11	Kumkum Katre	<u>KKatre</u>
12	Kashmira Karosiya	<u>(Kashmira...</u>
13	Rachael Patel	<u>RPatel</u>
14	Disha Molkya	<u>DMolkya</u>
15	Archita Somkuwar	<u>ASomkuwar</u>
16	Gayatri T. Rathod	<u>GRathod</u>
17	Vedant Borkar	<u>VBorkar</u>
18	Aasavali Kasare	<u>AKasare</u>
19	Payshvi Gurea	<u>PGurea</u>
20	Saniya Zade	<u>SZade</u>
21	Disha Umredkar	<u>DUmredkar</u>
22	Sanika Ghatge	<u>SGhatge</u>
23	Vedant Kharephar	<u>VKharephar</u>
24	Shreyas Manthannar	<u>SManthannar</u>
25	Mukulad Rente	<u>MRente</u>
26	Hansh Ganvir	<u>HGanvir</u>
27	Ashlesha Dhore	<u>ADhore</u>
28	Rehuka Pharepurze	<u>RPharepurze</u>
29	Nishant Singh	<u>NSingh</u>
30	Sumona Sarda	<u>SSarda</u>
31	Aditi Chaudhary	<u>ACHaudhary</u>
32	Tanishka Barde	<u>TBarde</u>
33	Tanvi Dhamankar	<u>TDhamankar</u>
34	Mrunali Vaidya	<u>MVaidya</u>
35	Ayushi Ambagade	<u>AAmbagade</u>
36	Madhuri .S. Patil	<u>MPatil</u>
37	Grasi .D. Bhattacharya	<u>GBhattacharya</u>
38	Aparna R. Gundkar	<u>ARGundkar</u>

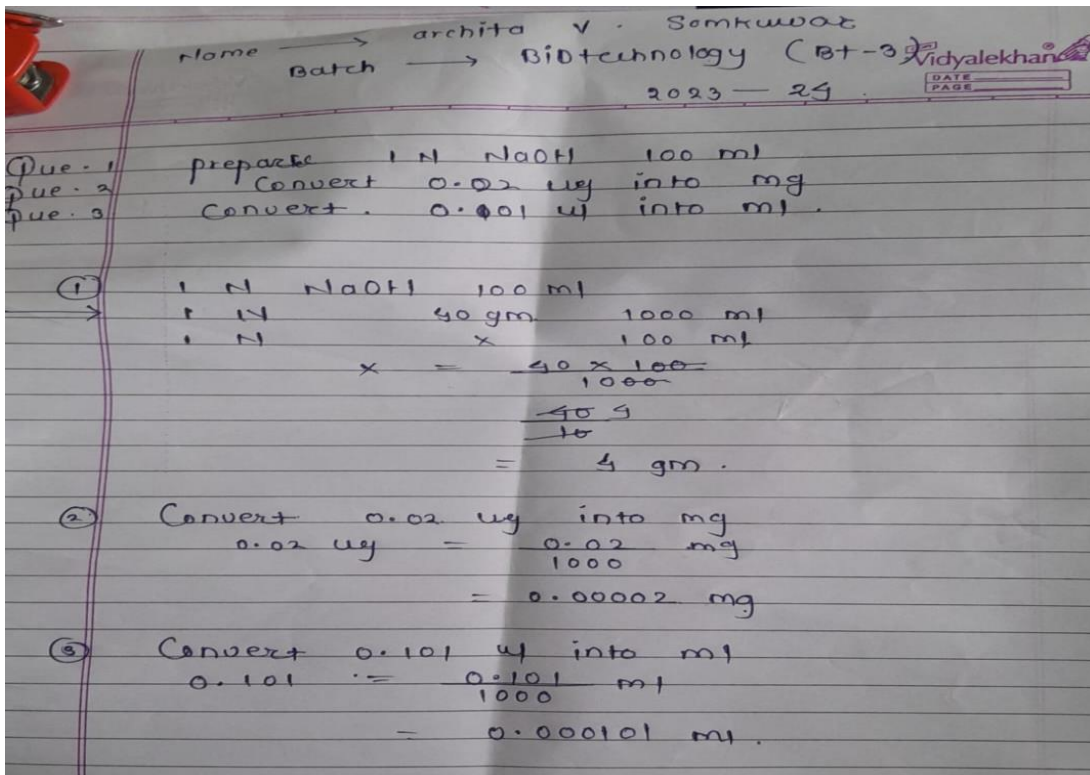
39	Ashwini Wankhede	Ashwini
40	Aachal Wankhede	Aachal
41	Radhika Patil	Radhika
42	Shravani Randive	Shravani
43	Trisha Gajbhiye	<del>Trisha</del>
44	Janvi Sahare	Janvi
45	Aparna Mate	Aparna
46	Charuta Vikey	Charuta
47	Sonika P. Bhoyar	Sonika
48	Ananya A. Baxytkar	Ananya
49	Ishika M. Katarre	Ishika
50	Lubhanshi V. Bhingare	Lubhanshi
51	Saloni Saharwal	Saloni
52	Shreshma Bhanje	Shreshma
53	Purnali A. Kothare	Purnali
54	Ayush A. Nikhade	Ayush
55	Sagar Samayya Kasetki	Sagar
56	Shrutan Ashok Chokkama	Shrutan
57	Pratik M. Kamble	Pratik
58	Utkarsh Ramteke	Utkarsh
59	Vineet A. Netke	Vineet
60	Om D. Kantode	Om
61	Vaishnavi Satyaprakash Shahu	Vaishnavi
62	Riya Y. Damale	Riya
63	Khyushu V. Jambhule	Khyushu
64	Tomvi H. Bawane	Tomvi
65	Archit Somkuvar	Archit
66	Ashlesha Dore	Ashlesha
67	Mani Anur Chichulkar	Mani
68	Gunjan Salve	Gunjan
69	Hansini Tambu	Hansini
70	Kashmira Karsia	Kashmira
71	Kumkum Katre	Kumkum
72	Lipakshi Kamble	Lipakshi
73	Mansi Patil	Mansi
74	Pranjita Bokare	Pranjita
75	Ritika Avhane	Ritika
76	Ritika Ramteke	Ritika
77	Piyali Raipure	Piyali
78	Sonakshi Kamde	Sonakshi
79	Tanishka Wankhede	Tanishka
80	Taru Shrivastav	Taru
81	Tejaswini Sabale	Tejaswini
82	Tarunatan Shende	Tarunatan

83	Vaidehi Kalhe	Vaidehi Kalhe
84	Vaishnavi Katole	<del>Vaishnavi Katole</del>
85	Vaishnavi Patil	<del>Vaishnavi Patil</del>
86	Vedika Salame	<del>Vedika Salame</del>
87	Yachna Potangale	Yachna
88	Anushri Bhagat	Bhagat
89	Aspita Dongre	Aspita
90	Aspita Zende	Aspita
91	Bhargavi Rodkar	Bhargavi
92	Darshini Rathod	Darshini
93	Amisha Bende	Amisha
94	Ashoka Chakravart	Ashoka
95	Niksha Sambhulkar	Niksha
96	Jaylaxmi Shende	<del>Jaylaxmi Shende</del>
97	Kalyani Ingole	<del>Kalyani Ingole</del>
98	Kavita Rankawat	Kavita
99	Khushi Khan	Khushi
100	Afrin I. Sheikh	<del>Afrin I. Sheikh</del>
101	Bushra H. Pathan	<del>Bushra H. Pathan</del>
102	Harshita S. Khapekar	<del>Harshita S. Khapekar</del>
103	Anshul P. Nitraware	<del>Anshul P. Nitraware</del>
104	Ashvinee A. Shende	<del>Ashvinee A. Shende</del>
105	Arya S. Muneshwar	<del>Arya S. Muneshwar</del>
106	Alyiya A. Kham	<del>Alyiya A. Kham</del>
107	Sayali Chakre	Sayali
108	Rashmi Rawate	<del>Rashmi Rawate</del>
109	Mansi Parthae	<del>Mansi Parthae</del>
110	Somiksha Bansod	<del>Somiksha Bansod</del>
111	Bhavika M. Waghade	Bhavika
112	Apeksha K. Massam	<del>Apeksha K. Massam</del>
113	Shreyashree Kodhey	<del>Shreyashree Kodhey</del>
114	Aakanksha Raipure	<del>Aakanksha Raipure</del>
115	AKanksha Giedam	AKanksha
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**E. Format of the certificate:**



**F. Test Conducted:**



Name :- Janvi S. Sahare  
Batch :- BTBC (2023)

Date \_\_\_\_\_  
Page \_\_\_\_\_

Que. 1. Prepare 1N NaOH 100ml

Que. 2. Convert 0.22  $\mu\text{g}$  to mg

Que. 3. Convert 0.101  $\mu\text{l}$  into ml

Que 4

→

Prepare

1N NaOH 100ml

1N 40gm 100ml

1N x 100ml

$$x = \frac{40 \times 100}{1000}$$

$$x = 4 \text{ gms}$$

Meaning if we weight 4grams of NaOH and dissolve in 100 ml of distill water the normality of solution will be 1N.

Que 2. 0.22  $\mu\text{g}$  to mg

$$= \frac{0.22}{1000} \Rightarrow 0.00022 \text{ mg}$$

Que 3. 0.101  $\mu\text{l}$  - ml

$$\Rightarrow \frac{0.101}{1000} = 0.000101 \text{ ml}$$



G: Feedback

DR AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR  
FEEDBACK

Certificate Course on Basic Analytical Techniques

25<sup>th</sup>-30<sup>th</sup> September 2023

(GIVE RATINGS)

1. NAME OF STUDENT: Harsh Gawir.

2. SECTION / BATCH : BC/ZOO, Sem-I.

3. HOW DO YOU LIKE THIS PROGRAMME:

1                      2                      3                      4                      5 ✓

4. HOW THIS PROGRAAME WILL HELP YOU IN YOUR CAREER.

1                      2                      3                      4                      5 ✓

5. HOW WAS THE LECTURES

6. 1                      2                      3                      4                      5 ✓

7. DID THIS LECTURE COVERED ALL TOPICS WHICH YOU WERE EXPECTED TO HERE

1                      2                      3                      4                      5 ✓

8. ANY OTHER SUGGESTIONS:-  
\_\_\_\_\_

Harsh Gawir  
SIGN

DR AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR

FEEDBACK

Certificate Course on Basic Analytical Techniques

25<sup>th</sup>-30<sup>th</sup> September 2023

(GIVE RATINGS)

1. NAME OF STUDENT: Ashlesha Dhore

2. SECTION / BATCH : \_\_\_\_\_

3. HOW DO YOU LIKE THIS PROGRAMME:

1                      2                      3                      4                      5 ✓

4. HOW THIS PROGRAAME WILL HELP YOU IN YOUR CAREER.

1                      2                      3                      4                      5 ✓

5. HOW WAS THE LECTURES

6. 1                      2                      3                      4                      5 ✓

7. DID THIS LECTURE COVERED ALL TOPICS WHICH YOU WERE EXPECTED TO HERE

1                      2                      3                      4                      5 ✓

8. ANY OTHER SUGGESTIONS:-

\_\_\_\_\_

Ashlesha Dhore  
SIGN