



Program / Celebration Report

Name of the Program Conducted: Advance Analytical Equipment Handling Certificate Course (25 to 30 October 2021) (2020-21)

Relevant Occasion: -

Date: 25/10/2021-30/10/2021

Venue: Dadasaheb Balpande College of Pharmacy

Relevance to Pos: I, II, III, IV, V, VI, VIII, IX, XI

Objectives:

1. To explain the methods of calibration and qualification criteria as per ICH and USFDA guidelines of electronic balance, UV-Visible spectrophotometer, IR spectrophotometer, Spectrofluorophotometer, GC and HPLC.
2. To explain the principle and instrumentation of Thermal Methods of Analysis, X-Ray Diffraction Methods and apply the concept TGA, DTA, DSC, X ray diffraction to interpret the physical characteristics of the drugs.
3. To interpret FTIR, mass and NMR spectra for identification of organic molecule
4. Summarize the methodology for quantitative and qualitative estimation of analyte by HPLC, GC, UV and Fluorometry.

Beneficiary: Students, Institution

Program organizing committee: Course Coordinator: 1. Mrs. Sandhya Bagde 2. Dr. Amol Warokar

Program outcome:

Advance Analytical Equipment Handling Certificate Course is designed to give a hands-on training on sophisticated instruments to the students. This training includes UV- visible spectrophotometer, High performance liquid chromatography, IR- spectrophotometer, Gas chromatography, Microwave synthesizer, pH meter & weighing balance. This training will prepare the students for project work, research work and on job training.

Attachments needed: -

1. Photographs
2. Attendance record.
3. Notice for circulation.

Mrs. Sandhya M. Bagde
Co-ordinator
DBCOP, Besa, Nagpur



Mahajan
Dr. Ujwala Mahajan
Principal
DBCOP, Besa, Nagpur



Notice

All students & faculty of DBCOP are hereby informed that, DBCOP is organizing one week '**Advanced Analytical Equipment Handling Certificate Course**'. The duration of this course will be from 25th Oct 2021 to 30th Oct 2021.

All concerned should take a note.



PRINCIPAL
Dr (Mrs.) Ujwala Mahajan
PRINCIPAL
DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR

Copy to: Academic In charge/Admin. Office
ADMIN/NOTICE/2021-22



Ambe Durga Education Society's

DADASAHEB BALPANDE COLLEGE OF PHARMACY

NEAR SWAMI SAMARTH DHAM MANDIR, BESA, NAGPUR- 440037.

IQAC, DBCOP Organizes

ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE

Date & Time

25th to 30th
October 2021

Time
10.30 am to 4.30 pm

Eligibility: Only for
B. Pharm.
Final year pass out students



HPLC
(Shimadzu - LC-20 AD
Binary Gradient,
PDA Detector)



Spectrofluorometer
(Shimadzu- RF 6000)



Gas Chromatography
(Thermo Fisher- Trace 1110)



UV-Visible
Spectrophotometer
(Shimadzu-1800)



FTIR
(Shimadzu-DRS 8000 A)

• Patron •

Mr. Manoj Balpande
President
Ambe Durga Education Society

• Convener •

Dr. (Mrs.) Ujwala Mahajan
Principal
DBCOP, Besa, Nagpur

• Co-ordinators •

Dr. Amol Warokar
Associate Professor

Mrs. Sandhya Bagde
Assistant Professor

• Silent Features •

- Total 30 hours of learning on theoretical as well as practical aspects of Pharmaceutical Analysis which includes
- Calibration and Qualification of analytical instruments as per ICH and USP guidelines.
- Cleaning and calibration of glassware's, sampling techniques
- Determination of solubility and drug release by UV-Visible spectroscopy
- Quantitative determination of analytes by Spectrofluorophotometry
- Interpretation of FTIR spectrum for the determination of Drug-Excipients compatibility studies and monitoring of chemical reaction.
- Methodology to develop and validate a new analytical method on HPLC and Gas Chromatography.
- Guidance from pharmaceutical industry experts

Note:

- The students have to abide with Covid-19 protocols directed by the Government of India and Local Administration
- Course with limited enrollment 50 students batch.
- Registration is on a first-come, first-served basis.
- Students have to collect registration form from DBCOP office and submit it on or before 23rd October 2021
- Registration fees is Rs. 200/-

Contact : Mrs. Sandhya Bagde - 9960556517

Email: sandhyahadke90@gmail.com

Mahajan
PRINCIPAL

DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37





Ambe Durga Education Society's
Dadasaheb Balpande College of Pharmacy (DBCOP)
Near Swami Samarth Mandir, Besa, Nagpur-37

One Week Advance Analytical Equipment Handling Certificate Course (AAEHC) (2020-21)
25th Oct-30th Oct 2021

Registration of Candidate

SN	Name of Candidates	Designation	Name of Institute	Contact	Mail	Vaccination	Signature
1	Prashant Y. Pardhi	Student	Bajirao Karanjekar college, Sakoli	8698888207	prashantpardhi869@gmail.com	yes	[Signature]
2	Manishkumar L. Bisen	Student	Manohar bhai Patel College, Godia	9604425760	mbisen1999@gmail.com	yes	[Signature]
3	Snehal H. Chaudhari	Student	Manohar bhai Patel College, Godia	7972582781	chaudharisnehal286@gmail.com	yes	[Signature]
4	Tina S. Lichade	Student	Manohar bhai Patel College, Godia	7218832308	tinlichade03@gmail.com	yes	[Signature]
5	Rina B. Kosarkar	Student	Manohar bhai Patel College, Godia	8999410922	rinakosarkar7@gmail.com	yes	[Signature]
6	Parul D. Kawale	Student	Manohar bhai Patel College, Godia	9049909189	Parulkawale810@gmail.com	Yes	[Signature]
7	Tanavi N. Sakhare	Student	Dr. Rajendra Gode Institute Amravati	9604100610	tanavinsakhare@gmail.com	yes	[Signature]
8	Rizwan Ahmad Manzoor Ahmad	Student	Dr. Rajendra Gode Institute Amravati	7840939158	rizwanahm7020@gmail.com	yes	[Signature]
9	Yash G. Jaiswal	Student	Dr. Rajendra Gode Institute Amravati	9545072533	jaiswalyash851@gmail.com	yes	[Signature]
10	Samruddhi S. Kukade	Student	Dr. Rajendra Gode Institute Amravati	9145782773	samruddhi.kukade1999@gmail.com	yes	[Signature]
11	Varshit S. Shirbhate	Student	Dr. Rajendra Gode Institute Amravati	9325850415	varshitshirbhate@gmail.com	yes	[Signature]
12	Abhishekh K. Mahakalkar	Student	Taiwade college of Pharmacy, Dighori, Umrer road	7798832066	abhishekhkalkar@gmail.com	yes	[Signature]
13	Akash M. Bhakare	Student	Taiwade college of Pharmacy, Dighori, Umrer road	9130120669	akashmbhakare@gmail.com	yes	[Signature]



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Near Swami Samarth Mandir, Besa, Nagpur-37

14	Shubhanshu N. Ashtankar ✓	Student	Taiwade college of Pharmacy, Dighori, Umrer road	8830713772	shubhanshu.ashtankar@gmail.com	Yes	Signature	✓
15	Diksha D. Meshram ✓	Student	Taiwade college of Pharmacy, Dighori, Umrer road	9921570220	meshramdiksha377@gmail.com	Yes	Signature	✓
16	Kajal Mangal-Singh Bais ✓	Student	Taiwade college of Pharmacy, Dighori.	9518590798	kajalsinghbais6@gmail.com	Yes	Signature	✓
17	Prasad V. Dule <i>Tule</i> ✓	Student	Taiwade college of Pharmacy, Dighori, Umrer road	8888697908	Prasad.v.tule786@gmail.com	Yes	Signature	✓
18	Rahul Sawarkar ✓	Student	NIPER, Mohali	9284689982			Signature	✓
19	Sanchita S. Vaidya ✓	Student	Sonekar College	8830664307	sanchita.vaidya@gmail.com	Yes	Signature	✓
20	Mamta B. Shahu ✓	Student	Sonekar College	9112151606	mamta.shahu@gmail.com	Yes	Signature	✓
21	Mrunali K. Sagne ✓	Student	Sonekar College	7756916040	mrunalik@gmail.com	Yes	Signature	✓
22	Shraddha D. Bansod ✓	Student	Sonekar College	8999194076	Shraddha.bansod1998@gmail.com	Yes	Signature	✓
23	Ujwala Larokar ✓	Student	DBCOP, Besa, Nagpur	8010449715	ujwalal@gmail.com	Yes (1st)	Signature	✓
24	Sapna H. Jana ✓	Student	Sonekar college	8624890778			Signature	✓
25	Pratiksha R. Lohkare ✓	Student	Sonekar College	8007603340	pratikshalohkare@gmail.com	Yes (1st dose)	Signature	✓
26	Prachi V. Choudhari ✓	Student	Sonekar College	9730642254	Choudharyprachi@gmail.com	Yes	Signature	✓
27	Kajal N. Bondre ✓	Student	DBCOP, Besa, nagpur	7057625202	bondrekajal@gmail.com	Yes (1st dose)	Signature	✓
28	Vaishnavi N. Padole ✓	Student	DBCOP	7066739978	Vaishnavipadole@gmail.com	Yes	Signature	✓
29	Rushikesh D. Wanole ✓	Student	Sonekar College	8552849915	Rushikeshwanole78@gmail.com	Yes	Signature	✓
30	Pratik D. Naik ✓	Student	Sonekar College	7028134767	naikpratik37@gmail.com	Yes	Signature	✓
31	Ashlesha R. Lambat ✓	Student	Agnihotri college, wardha	9665531178	lambatashlesha12@gmail.com	Yes (1st dose)	Signature	✓
32	Aniket A. Tamgadge ✓	Student	Agnihotri college, wardha	8600351053	aniket.tamgadge@gmail.com	Yes (1st dose)	Signature	✓
33	Shreejita T. Hazra ✓	Student	Priyadarshini J. L. College	7755908594	shreejitahazra12@gmail.com	Yes	Signature	✓
34	Mandar Anil Thool ✓	Student	DBCOP	9834712943	mandar.thool24@gmail.com	Yes	Signature	✓
35	Trupti C. Kosarkar ✓	Student	Manoharbhair Patel, Gondia	9881110542	truptikosarkar@gmail.com	Yes	Signature	✓
36	Venu S. Agrawal ✓	Student	Manoharbhair Patel, Gondia	8411019657	venu13032000@gmail.com	Yes	Signature	✓
37	Alok Tiwar ✓	Student	Sonekar College	9145468422	tiwaralok@gmail.com	Yes (1st)	Signature	✓
38	Pranay R. Wankhede ✓	Student	Sonekar College	9130005390	pranay.wankhede@gmail.com	Yes (1st)	Signature	✓
39	Monali B. Thakare ✓	Student	Sonekar College	7385994402	thakaremonali@gmail.com	Yes (1st dose)	Signature	✓
40	Roshni S. Kamble ✓	Student	Manoharbhair Patel	9923311475	kamble.rosni222@gmail.com	Yes	Signature	✓



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Dadasaheb Balpande College of Pharmacy (DBCOP)
Near Swami Samarth Mandir, Besa, Nagpur-37

					Email id	Vaccination	Sign	
41	Aditi B. Daiwalkar ✓	Student	Kamla Nehru	8208873629	aditidaiwalkar20	Yes	Aditi Daiwalkar	✓
42	Ekta J. Wadbudhe ✓	Student	Kamla Nehru	783500979	unbharthekta@gmail	Yes	Ekta Wadbudhe	✓
43	Goushiya Kausar Abdul Gani Sheikh ✓	Student	Kamla Nehru	8208056023	goushiya1218@gmail.com	Yes	Goushiya Kausar	✓
44	Karishma T. Shelke ✓	Student	DBCOP	7385504153	-	Yes	Karishma T. Shelke	✓
45	Saumyata D. Khobragade ✓	Student	DBCOP	7841071329	-	Yes	Saumyata D. Khobragade	✓
46	Mrunal D. Ade ✓	Student	DBCOP	7219224484	-	Yes	Mrunal D. Ade	✓
47	Minal S. Dube ✓	Student	DBCOP	8308029881	-	Yes	Minal S. Dube	✓
48	Monika S. Ambekar *	Student	DBCOP	7038585641	-	Yes	Monika S. Ambekar	✓
49	Ankita S. Raut ✓	Student	Kamla Nehru	9307833854	ankita11061997@gmail.com	Yes	Ankita S. Raut	✓
50	Akansha A. Mandade	Student	Maharashtra Institute of Pharmacy Bramhapuri	9830992462			-	x
51	Priya Ghutake	Student	Anurag College warthi	7888161898			-	x
52	Shubham S. Daronde ✓	Student	Dr. Rajendra Gode	7768943025	shubhamdarond e64@gmail.com	Yes	Shubham S. Daronde	✓

Mahajan
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OF PHARMACY, BESA, NAGPUR - 37



Advanced Analytical Equipment Handling Certificate Course (2020-21)

(25– 30 October 2021)

Course Schedule

Theory Session Plan (10.30am to 1.00pm)

Day	Lecture 1	Lecture 2
25	Cleaning and calibration of glassware's and sampling techniques (ASW)	Determination of solubility and dissolution profile by UV spectroscopy (ASW)
26	Interpretation of FTIR spectrum (MRT)	Good Laboratory practices (SMB)
27	Determination of solubility and dissolution profile by UV spectroscopy (ASW)	Interpretation of NMR, Mass, FTIR spectroscopy (Gignesh Doshi)
28	New Method development Approaches on HPLC and Gas Chromatography (ASW)	QBD (Dr. VMT)
29	Interpretation of structure by ¹ HNMR, FTIR, Mass spectroscopy (ASW)	Research Methodology (Dr. N. M. Mahajan)


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Practical Session Plan (1.30pm to 5.00pm)

Day	Batch A	Batch B
25	pH meter, UV-Visible Spectrophotometer Calibration, (S.B)	HPLC (ASW)
26	HPLC Calibration (ASW)	pH meter, UV-Visible Spectrophotometer Calibration, (S.B)
27	Gas Chromatography (ASW)	Spirunizer, Extruder & Microwave (PG & KRD)
28	Spirunizer, Extruder & Microwave (PG & KRD)	Gas Chromatography (ASW)
29	Spectrofluorophotometer (SB)	FTIR (ASW)
30	FTIR (ASW)	Spectrofluorophotometer (SB)

Course Coordinator

Principal

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Advanced Analytical Equipment Handling Certificate Course (2020-21)
(25-30 October 2021)

Course Syllabus (Theory and Practical)

INFRARED SPECTROMETRY

- **Theory/Principle** of IR spectroscopy, Factors affecting vibrational frequency, Interpretation of various functional group, Sampling Techniques ATR, DRS

Practical:

- Sample preparation
- Analysis of one solid and liquid sample and its interpretation
- Calibration and qualification of FTIR instrument by USP guidelines

HPLC

Theory

- Principle, methodology and instrumentation of HPLC
- Strategies for development and validation of analytical & Bioanalytical method on HPLC

Practical:

- Calibration and qualification of HPLC instrument by USP & ICH guidelines
- System suitability parameter evaluation and its USP compliance
- Sampling Preparation
- Qualitative and quantitative estimation of analyte by HPLC

UV- VIS Spectrophotometer

Theory

- Principle, methodology and instrumentation of UV-Visible spectrophotometry
- Strategies for development and validation of analytical method for mixture

Practical:

- Sample preparation
- Calibration and qualification of UV-Visible spectrophotometer instrument by USP & ICH guidelines
- Acquisition of derivative spectrum
- Qualitative and quantitative estimation of analytes by UV-Visible spectrophotometry



Gas Chromatography

Theory

- Principle, working, instrumentation of Gas Chromatography
- Derivatization in GC
- Strategies for development and validation of analytical method on Gas Chromatography

Practical:

- Sample preparation
- Calibration and qualification of Gas Chromatography instrument by USP & ICH guidelines
- Derivatization of fatty acid by Boron trifluoride method and its subsequent analysis
- Qualitative and quantitative estimation of analyte by Gas Chromatography

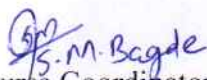
Microwave Synthesizer

Theory: Introduction, Theory, Principle, Instrumentation, Handling of instrument

Practical: Relative comparison of synthesis of organic moiety by conventional and microwave assisted synthesis and evaluation of synthetic product

pH meter & Analytical balance

- Introduction and Theory
- Preparation of buffers
- Calibration of pH meter
- Calibration of Weighing Balance


Course Coordinator




Principal

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OF PHARMACY, BESA, NAGPUR - 37

Dadasaheb Balpande College of Pharmacy

Annexure I Students Attendance Record

Date: 30/10/21

S. N.	Name of Students	Signature
1)	Saumyata D. Kuobragade	<u>Saumyata</u>
2)	Mrunal D. Ade	<u>Made</u>
3)	Minal S. Dube	<u>Minal</u>
4)	Monika Ambekar	<u>M. Ambekar</u>
5)	Ekta J. Wadbudhe	<u>Ekta</u>
6)	Shreeta T. Hazla	<u>Shreeta</u>
7)	Sopna H. Jana	<u>Sopna</u>
8)	Aditi Balabhai Dairwalkar	<u>Aditi</u>
9)	Ankita S. Paul	<u>Ankita</u>
10)	Prachi Y. Chaudhari	<u>Prachi</u>
11)	Manali B. Thakare	<u>Manali</u>
12)	Goushiya Kausar Sheikh	<u>Goushiya</u>
13)	Pratiksha R. Lohkare	<u>Pratiksha</u>
14)	Kalishma T. Shelke	<u>Shelke</u>
15)	Sanchita S. Vaidya	<u>Vaidya</u>
16)	Mamta B. Shahu	<u>Mamta</u>
17)	Manali Sagne	<u>Manali</u>
18)	Faravi N. Sakhare	<u>Sakhare</u>
19)	Yash G. Jaiswal	<u>Yash</u>

Dadasaheb Balpande College of Pharmacy

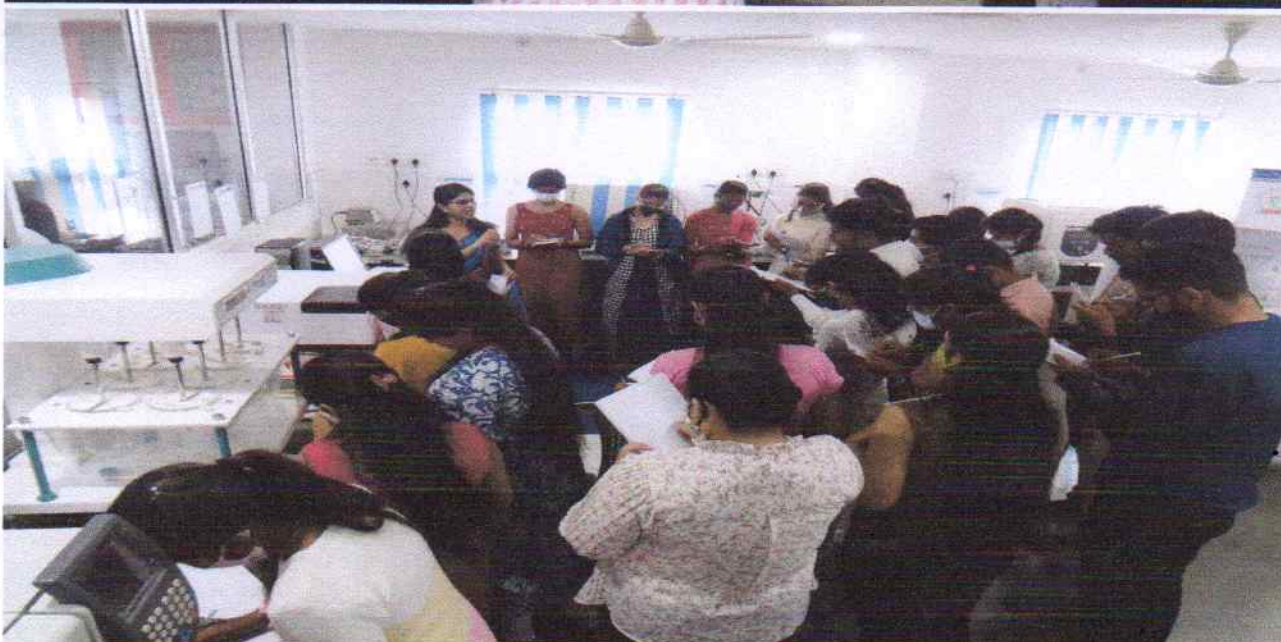
Annexure I Students Attendance Record

Date: 30/10/21

S. N.	Name of Students	Signature
23	Vorshit S. Shirkhale	<u>Vorshit</u>
21 24	Shubham S. Dumbre	<u>Dumbre</u>
22 25	Ashlesha R. Lambat	<u>Lambat</u>
23 26	Aniket A. Tamgadge	<u>Tamgadge</u>
24 27	Rizwan Ahmad	<u>Rizwan</u>
25 28	Mandar Thool	<u>Mandar</u>
26 29	Vaishnavi padole	<u>VP</u>
27 30	Kajal Bonehe	<u>Bonehe</u>
28 31	Ujjwala Laxkar	<u>Ujjwala</u>
29 32	Manishkumar L. Bisen	<u>MB</u>
30 33	Roshni S. Kamble	<u>Rambh</u>
31 34	Trupti C. Kosarkar	<u>Trupti</u>
32 35	Deenu S. Agrawal	<u>Agrawal</u>
33 36	Tina S. Lichacke	<u>Tina</u>
34 37	Parul D. Kewale	<u>Kewale</u>
35 38	Kajal M. Bais	<u>Bais</u>
36 39	Ritsha D. Meshram	<u>Meshram</u>
37 40	Prashant Y. Pardhi	<u>Pardhi</u>
38 41	Akash M. Bhakare	<u>A. M. Bhakare</u>

Dadasaheb Balpande College of Pharmacy, Besa, Nagpur

AAEHC Course 25th to 30th Oct. 2021 (2020-21)



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DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37

Ambe Durga Education Society's

DADASAHEB BALPANDE COLLEGE OF PHARMACY, BESA NAGPUR

(NBA and NAAC Accredited)



IQAC, DBCOP Organizes

ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE

25th to 30th October 2021

CERTIFICATE

This is to certify that

Dr. / Mr. / Ms./ Mrs.

Cancelled (sample copy)

has attended one week " ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE as Resource Person

/ Participant organised by Dadasaheb Balpande College of Pharmacy, Besa, Nagpur on 25th October to 30th

October 2021

Dr. Amol Warokar
Coordinator

Mrs. Sandhya Bagde
Coordinator

Dr. (Mrs.) Ujwala N Mahajan
Principal

Mahajan
PRINCIPAL

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25th to 30th October 2021

CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. / Mrs. Samruddhi S. Kulkade

has attended one week "ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE as Resource Person

/ Participant organised by Dadasaheb Balpande College of Pharmacy, Besa, Nagpur on 25th October to 30th

October 2021

Dr. Amol Warokar
Coordinator

Mrs. Sandhya Bagde
Coordinator

Dr. (Mrs.) Ujwala N Mahajan
Principal

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DADASAHEB BALPANDE COLLEGE
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CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. / Mrs. Parul D. Kaware

has attended one week "ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE as Resource Person

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Principal

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**ADVANCED ANALYTICAL EQUIPMENTS HANDLING
CERTIFICATE COURSE**

25th to 30th October 2021

CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. / Mrs.

Tanavi N. Sakhare

has attended one week " ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE as Resource Person

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25th to 30th October 2021

CERTIFICATE

This is to certify that

Dr. / Mr. / Ms. / Mrs.

Rizwan Ahmad M. Ahmad

has attended one week " ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE as Resource Person

/ Participant organised by Dadasaheb Balpande College of Pharmacy, Besa, Nagpur on 25th October to 30th

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Dr. Amol Warokar
Coordinator

Mrs. Sandhya Bagde
Coordinator

Dr. (Mrs.) Ujwala N Mahajan
Principal

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CERTIFICATE

This is to certify that

Dr. / Mr. / Ms./ Mrs.

Yash G. Jaiswal

has attended one week " ADVANCED ANALYTICAL EQUIPMENTS HANDLING CERTIFICATE COURSE as Resource Person

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Coordinator

Mrs. Sandhya Bagde
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Dr. (Mrs.) Ujwala N Mahajan
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Ambe Durga Education Society

Dadasaheb Balpande College of Pharmacy (DBCOP)

Near Swami Samarth Mandir, Besa, Nagpur-37



Feedback Analysis Report

Certificate Course

Topic: - Advanced Analytical Equipment Handling

Certificate Course (AAEHC)

Date: - 25/10/2021 to 30/10/2021

Total Participants Present	Feedback Form Received	Marks Obtained	Out of	Percentage
50	50	2212	2500	$2212/2500 \times 100 = 88.48\%$

88.48% Satisfaction

Feedback Analysis Report Submitted By



Principal

Dr (Mrs.) Ujwala Mahajan

PRINCIPAL

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OF PHARMACY, BESA, NAGPUR - 37