



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August 1923 & presently a State Universities governed by Maharashtra Universities Act No. VI of 2017)

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

Guru Nanak Bhavan, University Campus, Ambazari Bypass Road, Nagpur - 440033 Phone: 2530860

Dr. Nishikant Raut, (Director)

Mob. No. 9422803768

To,
The Principal
Dadasaheb Balpande
College of Pharmacy, Besa,
Nagpur.

No. DOLLE / 16524

Dated : 13.06.2024

Subject : Sanction for Conducting Short Term Courses under Jeevan Shikshan Abhiyan on No Grant Basis. (2023-24)

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, this is to inform you that your proposal has been accepted and your College has been granted permission to conduct the course on the following conditions:

Details of the Course

Sr. No.	Name of the Course	Name of Course Coordinator	Duration	Credit	No. of Candidates to be admitted	Fees to be Charged per Student	Fees to be Deposited With the Deptt.
1	Certificate Course in Advanced Analytical Equipment Handling	Dr. A.S. Warokar.	45 hrs. T-15 hrs. P-30 hrs.	2	50	1000/-	10%

Rules & Regulations of this Department regarding these courses should be strictly followed.

- This sanction is valid for this particular Batch only.**
- Fees for the course should be charged as per the norms prescribed.
- Expenditure on the course should be incurred as per norms.
- Course should be started within a Month from the date of sanction.
Please communicate your acceptance within a month and submit the Initial Report
- Submit the List of Students admitted in the excel format attached herewith.
- Geotagged Photographs clicked during theory and practical classes have to be submitted along with the final report. Other than geotagged photographs will not be accepted.
- Complete details and evidences (along with geotagged photographs) for theory & practical exam / assessment will have to be submitted. Guidelines for allotment of grades should be strictly followed.
- After Completion of the course the dates for assessment / exam should be informed to the Department at least 10 days in advance.



PRINCIPAL
DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37

Your's faithfully,

Nishikant Raut
Director



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

Program / Celebration Report

Name of the Program Conducted: Advance Analytical Equipment Handling Certificate Course (29 July to 03 Aug 2024)

Date: 29/07/2024-03/08/2024

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:

A one-week RTM Nagpur University Department of Lifelong Learning and Extension approved under Jeevan Shikshan Abhiyan, Advanced Analytical equipment handling certificate course (AAEHC-24) has been organized by DBCOP from 29 July to 03 Aug 2024. All participants were given in-hand training on handling of advanced analytical equipments. The certificate course was organized with view to get students equipped with various instruments handling and their basic knowledge, various analytical and calibration techniques which may help to bridge a gap between academic and industry. The theory and practical sessions were conducted where the students handled HPLC, GC, FTIR, UV-Visible spectrophotometer, Spectrofluorophotometer and various other instruments and grabbed knowledge and guidance about various equipments from pharmaceutical industry and college experts. Total 43 students have successfully completed the course and passed the examination. All the participants are awarded with a certificate of participation with 2 credit points.

Attachments needed: -

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


Dr. Amol Warokar and Mrs. Sandhya M. Bagde
Co-ordinator
DBCOP, Besa, Nagpur

ASSOCIATE PROFESSOR
DADASAHEB BALPANDE COLLEGE OF PHARMACY
BESA, NAGPUR - 440037




Dr. Ujwala Mahajan
Principal
DBCOP, Besa, Nagpur

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DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37

Dadasaheb Balpande College of Pharmacy (DBCOP), Besa, Nagpur

Program / Celebration Report



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

Department of Lifelong Learning and Extension



COURSE APPROVED UNDER JEEVAN SHIKSHAN ABHIYAN

Advanced Analytical Equipments Handling Certificate Course

(An IQAC Initiative)

Course Duration

29th July - 03rd Aug. 2024

Course Objectives

- Calibration and qualification of Analytical Instruments as per ICH and USFDA guidelines
- Apply the concept TGA, DTA, DSC, X ray diffraction to interpret the physical characteristics of the drugs and pharmaceuticals
- Interpretation FTIR, mass spectroscopy and NMR spectra for identification of organic molecule.
- Summarize the methodology for quantitative and qualitative estimation of analyte by HPLC, GC, UV and spectrofluorophotometry

Students will be awarded with university certificate & 2 Credit Points



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



Gas Chromatography
(Thermo Fisher-Trace 1110)



FTIR
(Shimadzu-DRS 8000 A)



Spectrofluorophotometer
(Shimadzu- RF 6000)



Zetasizer
Particle size analyzer
Anton Paar
(Litesizer 500)



UV-Visible
Spectrophotometer
(Shimadzu-1800)

Eligibility

**B. PHARM. FINAL YEAR
2023-24 PASS OUT STUDENTS**

<https://forms.gle/SJUDVDkJSdKHP4m7A>



Batch Registration

is only for **50**
Candidates on basis
of First Come Preferences

Dr. (Mrs) Ujwala Mahajan
Principal

Dr. Ajay Pise
IQAC Coordinator

Co-ordinators

Dr. Amol Warokar
Associate Professor

Mrs. Sandhya Bagde
Assistant Professor, M.: 9960556517



Scan For Registration

University Course Fee:
Rs. 1000/-

Exam & Other Fee:
Rs. 550/-

Total Fees: **Rs.1550/-**



Organized by
Ambe Durga Education Society

Dadasaheb Balpande College of Pharmacy

Near Shree Swami Samarth Dham, Besa, Nagpur

Website: <http://www.dbcop.org>, Email: iqac.dbcop@gmail.com

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OF PHARMACY, BESA, NAGPUR - 37



Ref.No.: - DBCOP/ Notice/247/2024

Date: - 26-07-2024

Notice

All the students, teaching & supporting staff of DBCOP are hereby informed that, inauguration program of **'Advanced Analytical Equipment Handling Certificate Course' (AAEHC 2024)** is scheduled on 29th July 2024, 10:30 am at seminar hall.

All concerned should take a note & attend the same.



Principal
Dr (Mrs) Ujwala Mahajan

PRINCIPAL
DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37

Copy to: Academic In charge/Admin. Office
ADMIN/NOTICE/2024



Ambe Durga Education Society's
Dadasaheb Balpande College of Pharmacy

Near Swami Samarth Mandir, Besa, Nagpur-37

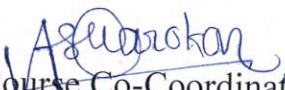
Advanced Analytical Equipment Handling Certificate Course

29th July 2024 to 3rd Aug 2024

Theory Time Table (9.30 am-12.30 pm)

3Hrs per day (Total 15 Hrs)

Date	Lecture 1 (09.30-10.30 am)	Lecture 2 (10.30 am-11.30 am)	Lecture 3 (11.30 am-12.30 pm)
29.07.24	QbD approach for development of analytical method (ASW)	Cleaning and calibration of glassware's (RSS)	Sample preparation techniques of measuring analytes (ASW)
30.07.24	Determination of solubility and dissolution profile by UV spectroscopy (ASW)	Overview of analytical Techniques with few cases studies (JD)	Quantitative determination of bioactive constituent by spectral & chromatography techniques (ASW)
31.07.24	Bioanalysis & Pharmacokinetics by HPLC-PDA & LC/MS/MS: An Overview (ASW)	Interpretation of FTIR spectrum (MT)	Structural elucidation of organic compound by UV NMR, Mass, FTIR spectroscopy (ASW)
01.08.24	New Method development Approaches on HPLC: An overview (ASW)	Molecular Docking (KRD)	New Method development Approaches on Gas Chromatography: An overview (ASW)
02.08.24	Study of Drug-Excipient compatibility by FTIR (ASW)	Determination of physical properties of pharmaceuticals by DSC (NMM)	QbD in Research & Development: An Overview (ASW)


Course Co-Coordinator

ASSOCIATE PROFESSOR
DADASAHEB BALPANDE COLLEGE OF PHARMACY
BESA, NAGPUR - 440034




Principal

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Ambe Durga Education Society's
Dadasaheb Balpande College of Pharmacy

Near Swami Samarth Mandir, Besa, Nagpur-37

**Practical Time Table (01.00 pm-06.00 pm)
5Hrs per day (Total 30 Hrs.)**

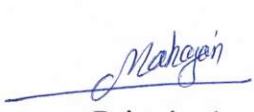
Date	Batch A	Batch B
29.07.24	pH meter, Hands on training UV-Visible Spectrophotometer, (SMB & RSS)	HPLC (ASW)
30.07.24	HPLC Calibration (ASW)	pH meter, UV-Visible Spectrophotometer Calibration, (SMB & RSS)
31.07.24	Gas Chromatography (ASW)	Extruder and Spheronizer (PSG), Microwave (KRD)
01.08.24	Extruder and Spheronizer (SSM), Microwave (KRD)	Gas Chromatography (ASW)
02.08.24	Spectrofluorophotometer (DMN) and particle size analyzer (SSM)	FTIR (ASW)
03.08.24	FTIR (ASW)	Spectrofluorophotometer (DMN) and particle size analyzer (SSM)


Course Co-Coordinator

ASSOCIATE PROFESSOR

DADASAHEB BALPANDE COLLEGE OF PHARMACY
BESA, NAGPUR - 440034




Principal

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OF PHARMACY, BESA, NAGPUR - 37



Ambe Durga Education Society's

Dadasaheb Balpande College of Pharmacy (DBCOP)

Near Swami Samarth Mandir, Besa, Nagpur-37

ATTENDANCE RECORD

Program Details: Advance Analytical Equipment Handling Certificate Course (AAEHC 29 July - 03 Aug - 2024)

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

Sr. No.	Name of Students	29 th July 2024 (Day 1)		30 th July 2024 (Day 2)		31 st July 2024 (Day 3)		01 st Aug 2024 (Day 4)		02 nd Aug 2024 (Day 5)		03 rd Aug 2024 (Day 6)	
		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
1	MANOJ MEWALAL GAUTAM	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.	P.M.
2	AISHWARYA LAKMIKANT SHRIRAO	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
3	VAISHNAVI HARISH PACHANGE	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
4	SRUSHTI SABLE	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
5	SUCHITA RAJENDRA GALANDE	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
6	MRUNALINI DEVENDRA WANDHARE	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
7	RESHMA DIPAK AGARWAL	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
8	SANJANA GENDRAO KAWADKAR	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
9	PURVA SATISH PIMPLE	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
10	SANA M. A. SIDDIQUI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present
11	SANCHITA Y. CHAUDHARI	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present	Present

12. Archi G. Helwate

Dadasaheb Balpande College of Pharmacy (DBCOP), Besa, Nagpur-440037

Attendance Record

Dadasaheb Balpande College of Pharmacy (DBCOP), Besa, Nagpur-37



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		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1
13	SATYAM P. WANJIKAR	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer
14	RUTUJA K. WADHAI	R	R	R	R	R	R	R	R	R	R	R
15	VINSHI R. URKUDE	Bunde	Bunde	Bunde	Bunde	Bunde	Bunde	Bunde	Bunde	Bunde	Bunde	Bunde
16	PRIYANKA R. PILANKAR	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer	Spencer
17	TRUPTI BHOWANKAR	B	B	B	B	B	B	B	B	B	B	B
18	Swapani m. Kamble APEKSHA MOTGHARE	S	S	S	S	S	S	S	S	S	S	S
19	POONAM B. CHARDE	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad
20	NEHA UPARE	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad
21	KOMAL KHANGAN	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad
22	AKANKSHA GONDOLE	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad
23	VAISHNAVI AWACHAT	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad	V.S. Prad
24	VEDIKA BHOYAR	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad	V.P. Prad
25	ROHIT BUNDE	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad	Prad
26	ANKIT SHENDE	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL	AL

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Ambe Durga Education Society's
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		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1
27	VIJAY TAHILYANI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
28	RAHELA ANJUM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
29	SHWETA RAUT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
30	SANJAY KUMAR UCHIBAGLE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
31	PRITI VIJAYRAO BAGDE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
32	ONKAR RAMU MARKUNDE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
33	RAKESH YASHWANT BHUTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
34	MEHA N. MOTIWALA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
35	GAYATRI K. BAHATKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
36	MOHIT A. RAUT	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
37	NITIN CHAPEKAR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
38	NAMITA S. GIRHEPUNJE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
39	MANJUSHA H. CHARDE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40	KARISHMA SHELKE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

PRINCIPAL

Dadasaheb Balpande College of Pharmacy (DBCOP), Besa, Nagpur-440037

DADASAHEB BALPANDE COLLEGE
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Attendance Record



Ambe Durga Education Society's

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		Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
41	AKSHAY GHANMODE												
42	VIJAY THOMBRE												
43	VIJAYA RABADE												

course coordinator

ASSOCIATE PROFESSOR
DADASAHEB BALPANDE COLLEGE OF PHARMACY
BESA, NAGPUR 440034

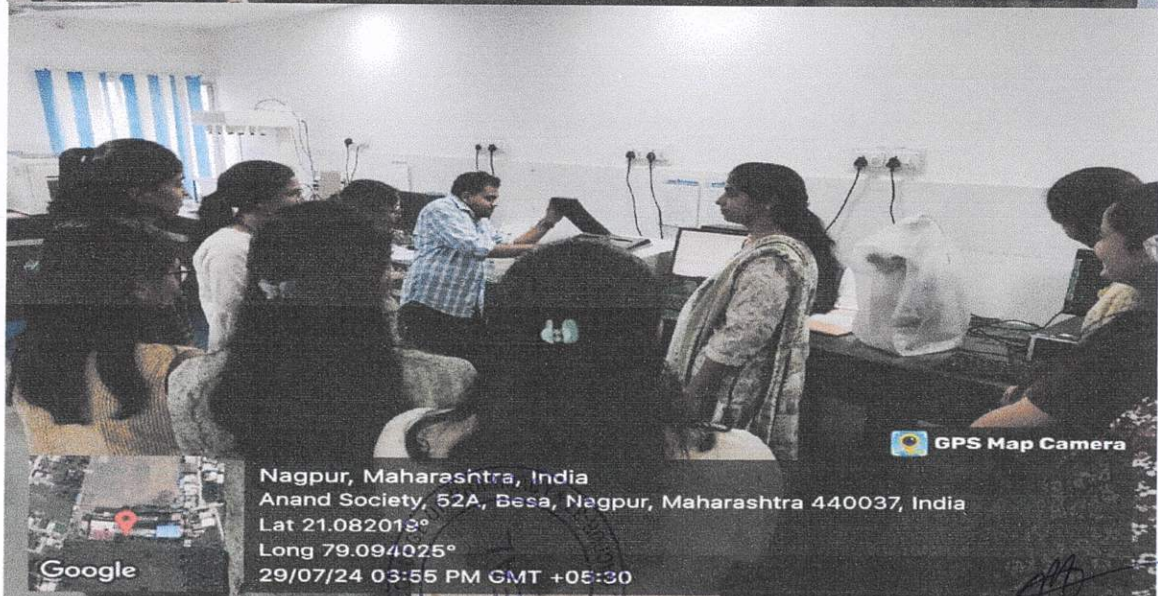


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Advance Analytical Equipment Handling Certificate Course
29th July to 3rd August 2024

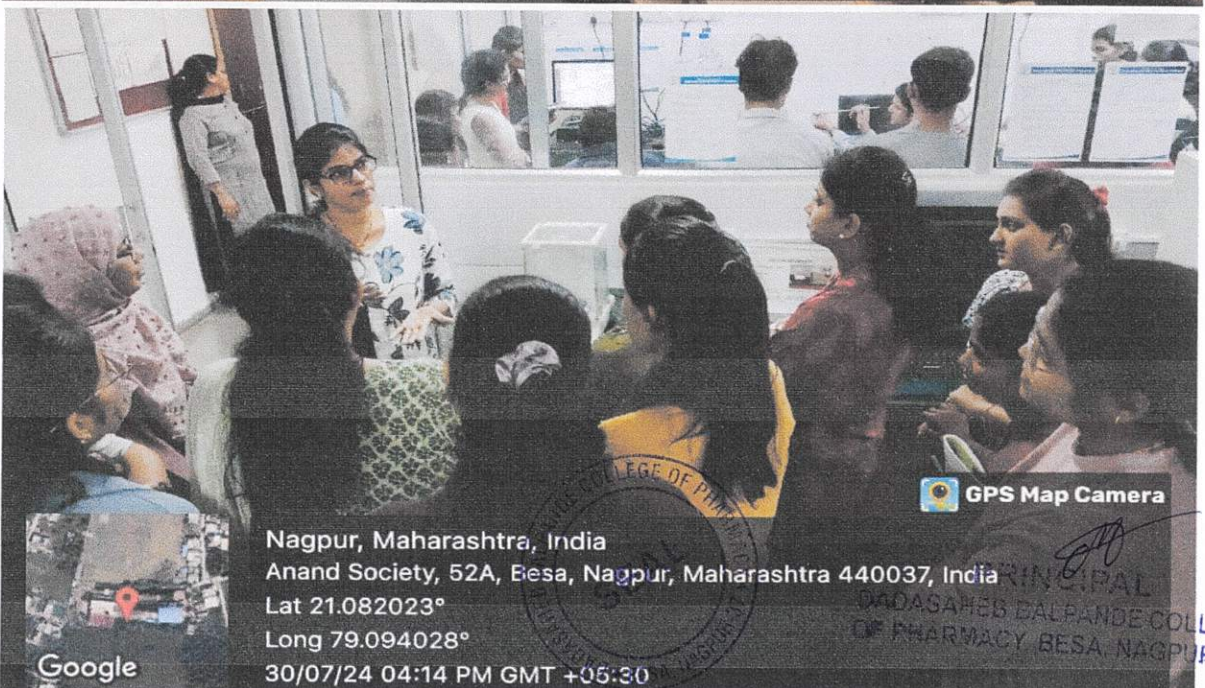
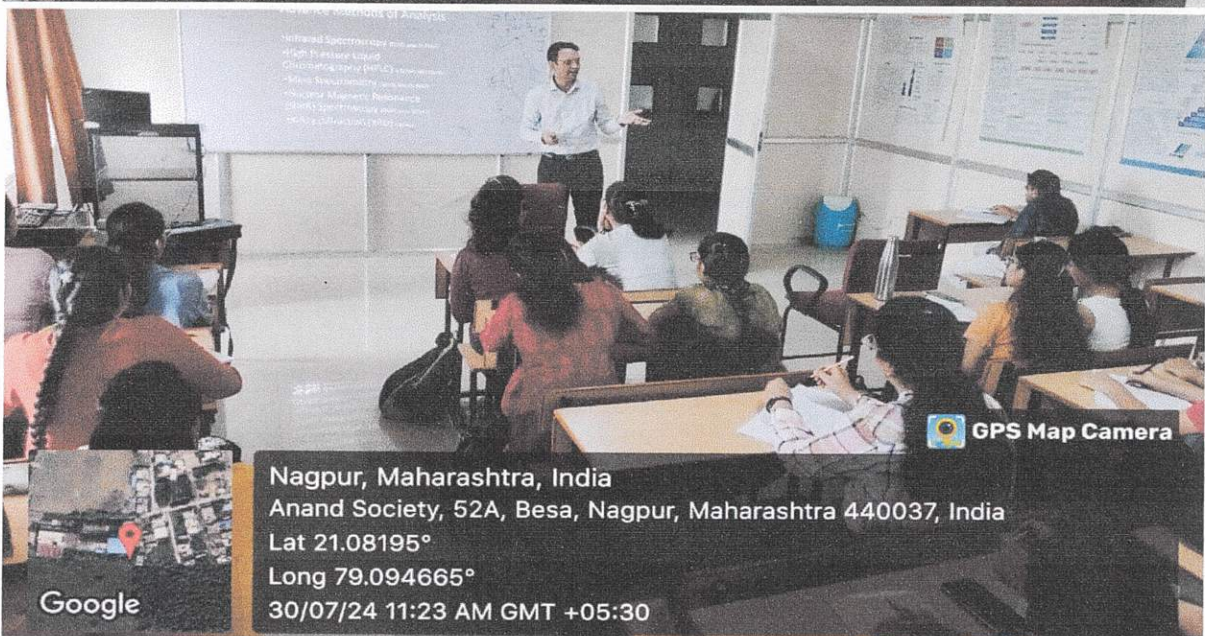


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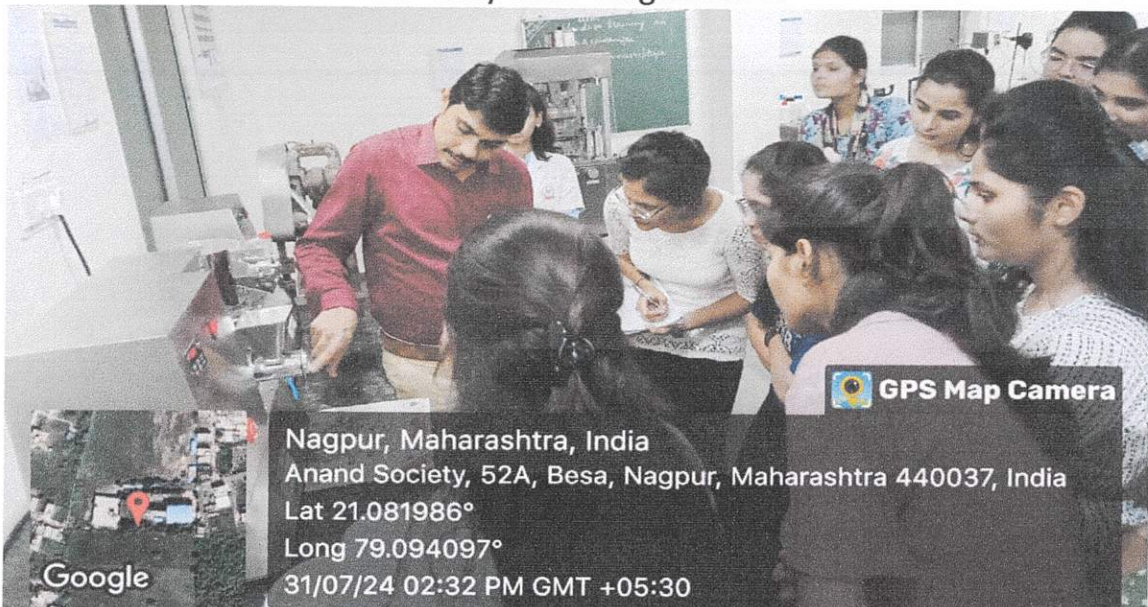


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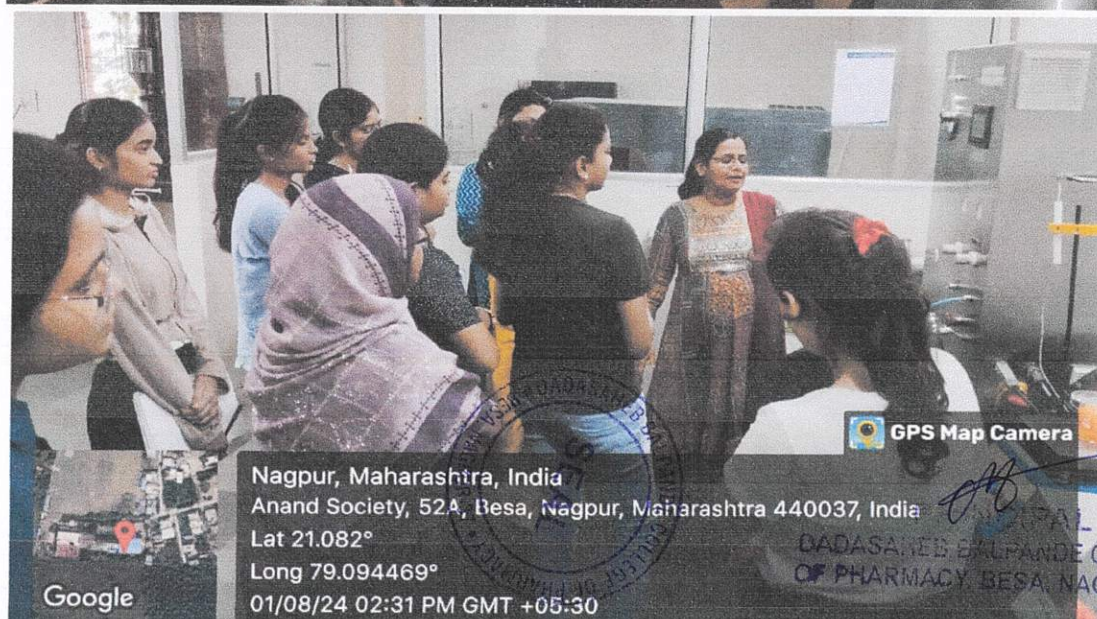
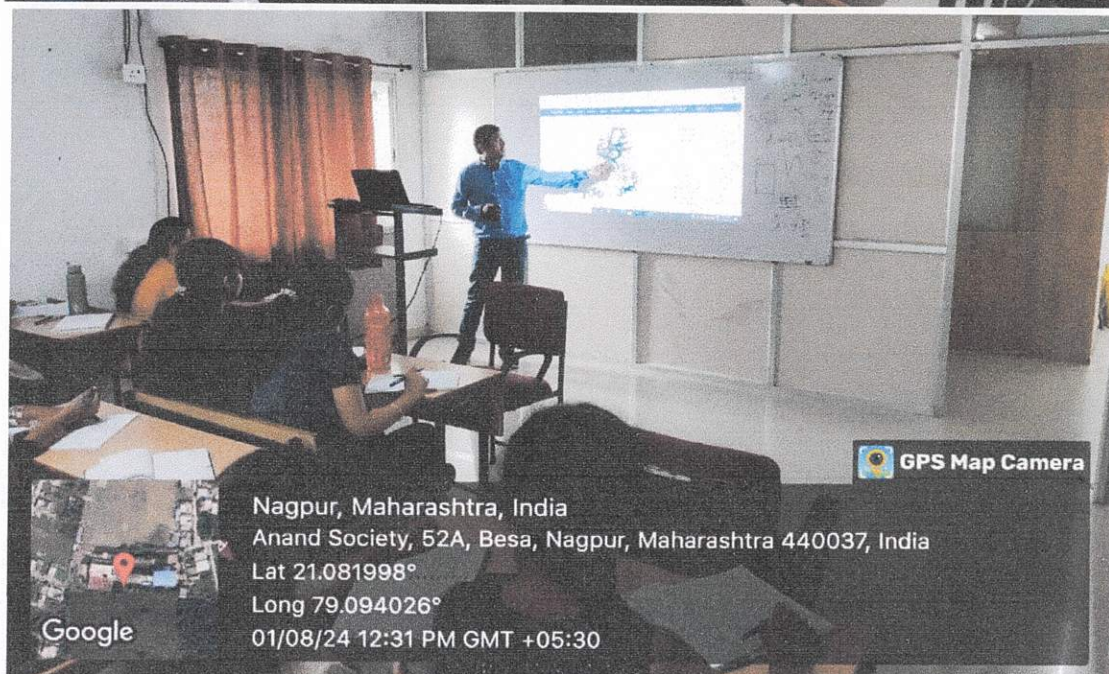
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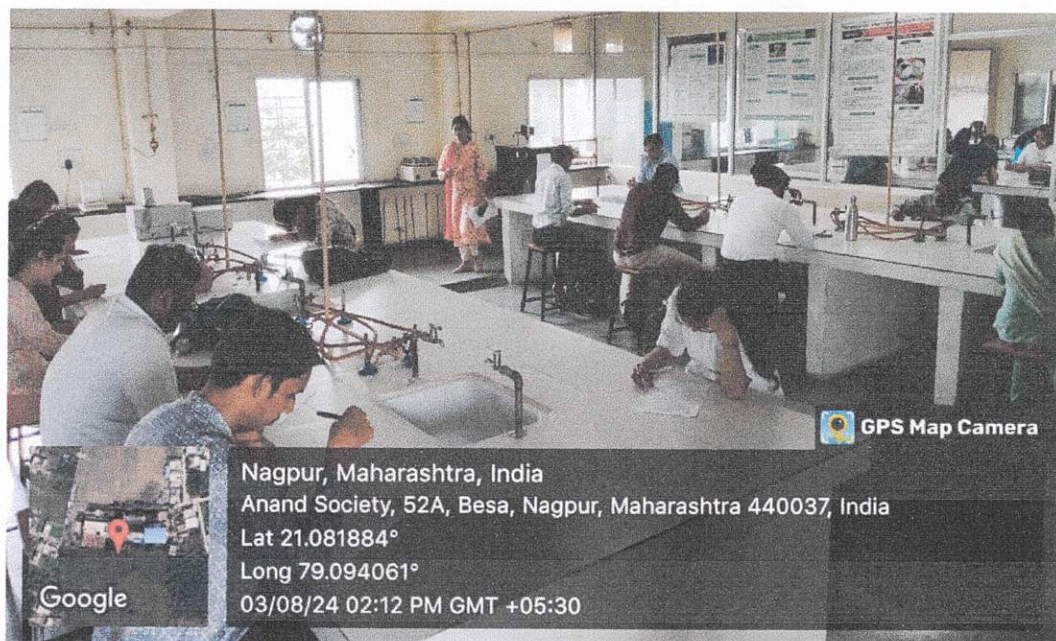
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Ambe Durga Education Society's
Dadasaheb Balpande College of Pharmacy (DBCOP)
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Advance Analytical Equipment Handling Certificate Course
29th July to 3rd August 2024




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Rashtrasant Tukadoji Maharaj Nagpur University Nagpur

(Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017).)

University Skill Development Centre

(Under Board of Lifelong Learning and Extension)



No. JSA _____

Shri /Smt./Ku. Sample. Copy is awarded with Certificate on successful completion of **Advanced Analytical Equipments Handling Certificate Course**, under **Jeevan Shikshan Abhiyan** conducted for 45 hours from **29/07/2024 to 03/08/2024** in collaboration with **Dadasaheb Balpande College of Pharmacy, Near Swami Samarth Dham Mandir, Besa, Nagpur- 37 (MS) India.**

He/ She has passed the Examination with Grade _____

Total Credit Earned : 02

Dr. Ujwala Mahajan
Principal

Dadasaheb Balpande College of Pharmacy

PRINCIPAL

DADASAHEB BALPANDE COLLEGE

Amol Warokar

Dr. Amol Warokar
Course Co-ordinator

Dadasaheb Balpande College of Pharmacy



Dr. Nishikant Raut
Director

Board of Lifelong Learning and Extension