

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

Email ID: doll.rtmnu@gmail.com

Mob. No. 9921140553

Date: 07.08.2025

Dr. Samit Mahore, (Director)

No./DLLE/264/25

To.

The Principal

Dadasaheb Balpande College of Pharmacy,

Besa, Nagpur

Subject:

Sanction for Conducting Short Term Courses under Jeevan Shikshan

Abhiyan on No Grant Basis. (2025-26)

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	Dr. A.S. Warokar	45 hrs.	2	50	1000/-	10%
	Advanced Analytical	Mrs. S.M. Bagde	T- 15 hrs.				
	Equipment Handling		P- 30 hrs.		•		

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

- 1. This sanction is valid for this particular Batch only.
- 2. Fees for the course should be charged as per the norms prescribed.
- 3. Expenditure on the course should be incurred as per norms.
- 4. Course should be started within a Month from the date of sanction.

 Please communicate your acceptance within a month and submit the Initial Report
- 5. Submit the List of Students admitted in the excel format attached herewith.
- 6. Send <u>Time Table</u> of the Course along with <u>Name of the Faculties</u>.
- 7. 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.
- 8. Complete details and evidences (along with geotagged photographs) for theory & pratical exam / assessment will have to be submitted. Guidelines for allottment of grades should be strictly followed.
- 9. After Completion of the course the dates for assessment /exam should be informed to the Department at least 10 days in advance.

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PRINCIPAL

DADASAHEB BALPANDE COLLEGE OF PHARMACY, BESA, NAGPUR - 37 Your's faithfully,

Director 2/8/2



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 (08 to 13 Sept. 2025)

Date: 08/09/2025-13/09/2025

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 TCA, 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-25) has been organized by DBCOP from 08 to 13 Sept. 2025. 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, Spectroflurophotometer and various other instruments and grabbed knowledge and guidance about various equipments from pharmaceutical industry and college experts. Total 49 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

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Dr. Ujwala Mahajan Principal

DBCOP, Besa, Nagpur



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY **Department of Lifelong Learning and Extension**



COURSE APPROVED UNDER JEEVAN SHIKSHAN ABHIYAN



Course Duration □13thSeptember 2025

Advanced Analytical Equipments Handli Certificate Course

(Shimadzu - LC-20 AD **Binary Gradient.** PDA Detector)

Gas Chromatography (Thermo Fisher-Trace 1110)

(An IQAC Initiative)

Course Objectives

- Calibration and qualification of Analytical
- Apply the concept TCA, DTA, DSC, X ray diffraction to interpret the physical characteristics
- Interpretation FTIR, mass spectroscopy and NMR spectra for identification of organic molecule.
- qualitative estimation of analyte by HPLC, GC. UV and spectrofluorophotometry
- Pharmacokinetic studies by HPLC: An Overview

Students will be awarded with university certificate & 2 Credit Points



FTIR (Shimadzu-DRS 8000 A)

Spectroflurophotometer (Shimadzu-RF 6000)



Zetasizer Particle size analyzer **Anton Paar** (Litesizer 500)



UV-Visible Spectrophotometer (Shimadzu-1800)

Batch Registration is only for 50 Candidates on basis of First Come Preferences



University Course Fee: Rs. 1000/-

Exam & Other Fee: Rs. 550/-

Total Fees: Rs.1550/-

Scan For Registration

- Instruments as per ICH and USFDA guidelines
- of the drugs and pharmaceuticals.
- Summarize the methodology for quantitative and

Eligibility

B. Pharm. Pass out/M. Pharm./Ph.D

Dr. (Mrs) Ujwala Mahajan Principal

Dr. Ajay Pise **IQAC** Coordinator

Co-ordinators

Dr. Amol Warokar Associate Professor

Mrs. Sandhya Bagde

Assistant Professor, M.: 9960556517



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Organized by

Ambe Durga Education Society i

Dadasaheb Baipande College of Pharmacy

Near Shree Swami Samarth Dham Mandir, Besa, Nagpur

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



■ Limited enrollment of 50 students



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

Ref.No. DBCOP/Notice/2025

Date: 06/09/2025

Notice

All the students, teaching & supporting staff of DBCOP are hereby informed that, inauguration program of 'Advanced Analytical Equipment Handling Certificate Course' (AAEHC 2025) is scheduled on 8th September 2025, 10:30 am at seminar hall.

All concerned should take a note & attend the same.

SEAL SEAL OF PHARMACY.

Principal

Dr (Mrs) Ujwala Mahajan PRINCIPAL

DADASAHEB BALPANDE COLLEGE OF PHARMACY, BESA, NAGPUR - 37



Dadasaheb Balpande College of Pharmacy

Near Swami Samarth Mandir, Besa, Nagpur-37

Advanced Analytical Equipment Handling Certificate Course-2025

08-13 September 2025

Theory Time Table (9.30 am-12.30 pm)

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

Practical Time Table (01.00 pm-06.00 pm)

Date	Batch A	Batch B
08.09.25	Calibration of pH meter, UV-Visible Spectrophotometer, (SMB & RSS)	HPLC Calibration (ASW)
09.09.25	HPLC Calibration (ASW)	Calibration of pH meter, UV-Visible Spectrophotometer, (SMB & RSS)
10.09.25	Gas Chromatography (ASW)	Extruder and Spheronizer (PSG), Microwave (VVR)
11.09.25	Extruder and Spheronizer (PSG), Microwave (VVR)	Gas Chromatography (ASW)
12.09.25	Spectrofluorophotometer (DMN) and particle size analyzer (SSM)	FTIR (ASW)
13.09.25	FTIR (ASW)	Spectrofluorophotometer (DMN) and particle size analyzer (SSM)

Co-ordinator.

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DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37



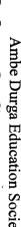
Dadasaheb Balpande College of Pharmacy (DBCOP) Near Swami Samarth Mandir, Besa, Nagpur-37

ATTENDANCE RECORD

Program Details: Advanced Analytical Equipment Handling Certificate Course-2025

08-13 September 2025

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

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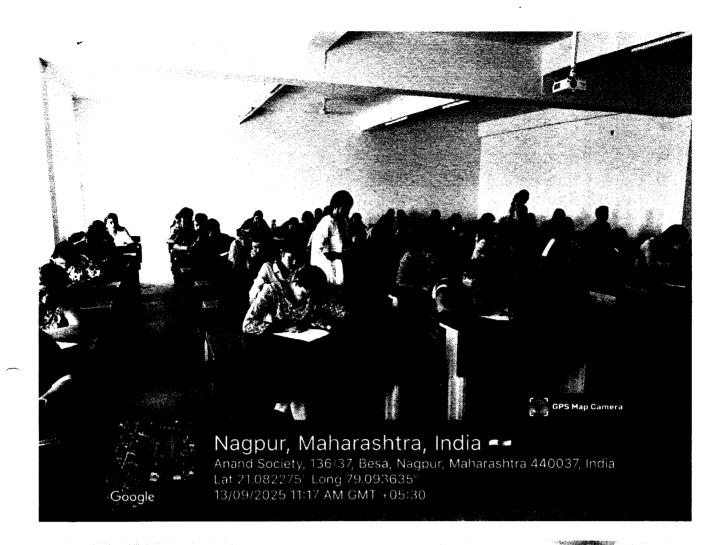


Dadasahel Balpande College of Pharma y (DBCOP)

Near Swami Samarth Mandir, Besa, Nagpur-37

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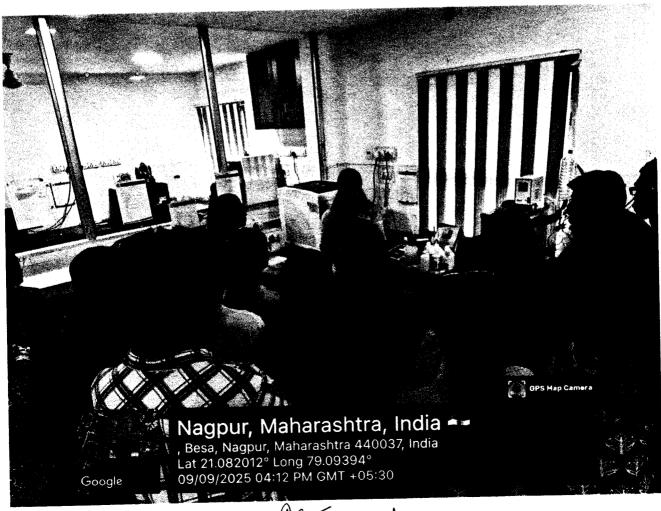
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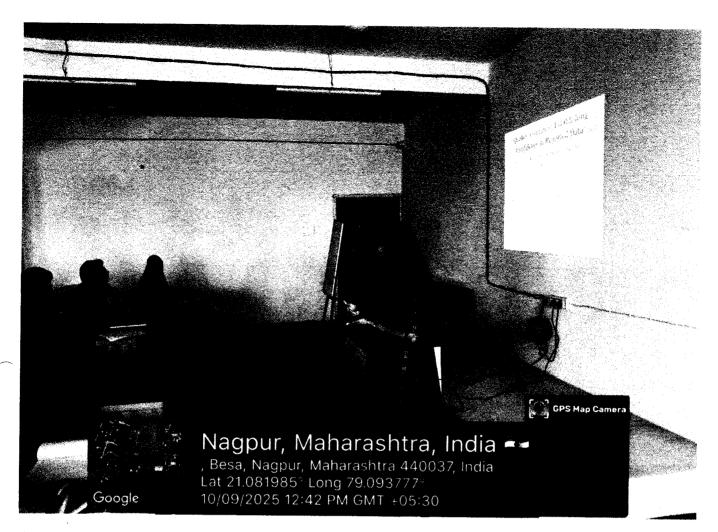


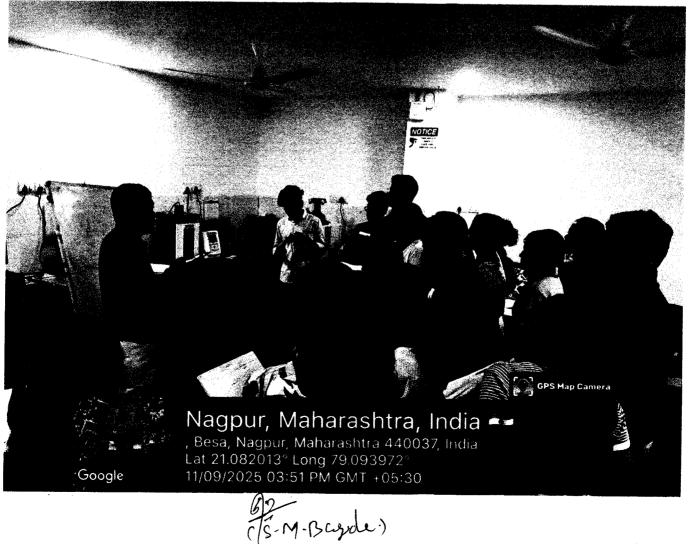
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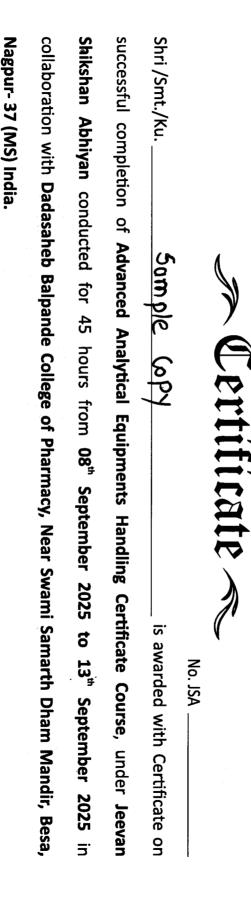


Rashtrasant Tukadoji Maharaj Nagpur University Nagpur

(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)



Dr. Ujwala Mahajan

Dadasaheb Balpande College of Pharmacy Besa, NºCD adasaheb Balpande Col Total Credit Earned: 02

ge of Pharmacy

He/ She has passed the Examination with Grade

Dr. Samit Mahore

Board of Lifelong Learning and Extension