



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

Dr. Samit Mahore, (Director)

No./DLLE/264/25

Date : 07.08.2025

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

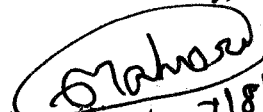
Rules & Regulations of this Department regarding these courses should be strictly followed.

- 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.
- Send **Time Table** of the Course along with **Name of the Faculties.**
- 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,


Director 7/8/2025



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 (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 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

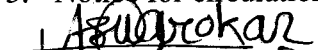
Program organizing committee: Course Coordinator: 1. Mrs. Sandhya Bagde 2. Dr. Amol Warokar

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-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, Spectrofluorophotometer 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




Dr. Ujwala Mahajan
Principal
DBCOP, Besa, Nagpur



COURSE APPROVED UNDER JEEVAN SHIKSHAN ABHIYAN

Course Duration
8th - 13th September 2025

Advanced Analytical Equipments Handling Certificate Course

(An IQAC Initiative)

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
- Pharmacokinetic studies by HPLC: An Overview

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

Dr. (Mrs) Ujwala Mahajan
Principal

Dr. Ajay Pise
IQAC Coordinator

Co-ordinators

Dr. Amol Warokar
Associate Professor

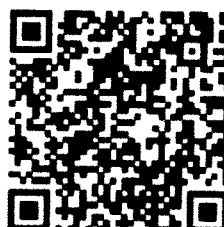
Mrs. Sandhya Bagde
Assistant Professor, M.: 9960556517



Scan for payment

(Dr. S. M. Bagde)

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

Note

■ Limited enrollment of 50 students



Organized by
Ambe Durga Education Society's
Dadasaheb Balpande College of Pharmacy
Near Shree Swami Samarth Dham Mandir, Besa, Nagpur
Website: <http://www.dbcop.org>, Email: iqac.dbcop@gmail.com



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.



Mahajan 06/09/2025

Principal

Dr (Mrs) Ujwala Mahajan
PRINCIPAL

DADASAHEB BALPANDE COLLEGE
OF PHARMACY, BESA, NAGPUR - 37

Copy to: Academic In charge/Admin. Office
ADMIN/NOTICE/2025



Ambe Durga Education Society's
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)

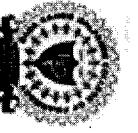
Practical Time Table (01.00 pm-06.00 pm)

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)

S. M. Bagde
Co-ordinator.



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



Dadasaheb Balpande College of Pharmacy (DBCOP)

10
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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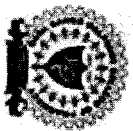
Ambe Durga Education Society's

Dadasaheb Balpande College of Pharmacy (DBCOP)

Near Swarni Samarth Mandir, Besa, Nagpur-37

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7. Kritika shrikant Mogre															
8. Mithila Bambal															
9. Ms. Kanchan Rode															
10. Nandini Gopal Baghel															
11. Nayana Chirag Vora (Makadia Nayana Jeevanlal)															
12. Neha Shankarai Gupta															
13. Nisha pradip Khandre															
14. Nitin Munna Jaiswal															
15. Paras murlihar badki															
16. Pooja awatade															



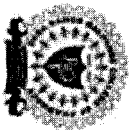


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Dadasaheb Balpande College of Pharma (DBCOP)

Near Swami Samarth Mandir, Besa, Nagpur-37

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27. Samir Pakhinde																		
28. Sanchita Ganesh Burhan																		
29. Sanket Kedarnath Ramteke																		
30. Shweta Banduji Raut																		
31. Siddhi mahadeo There																		
32. Siddhi Umakant Nimbalkar																		
33. Simran Sheikh																		
34. Sneha Ganesh Panghate																		
35. Snehal Vijay Maladhari																		
36. Suhani Rajesh Newalkar																		



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Near Swami Samarth Mandir, Besa, Nagpur-37

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

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46.	Aniruddha Venkatesh Upalapwar															
47. ✓	Manya Rajiv Bhasin															
48.	Shwetal Shivprasad shahu															
49.	Meenal Patel															

(Mrs. S.M. Borgele)
Co-ordinator



Nagpur, Maharashtra, India

Anand Society, 136/37, Besa, Nagpur, Maharashtra 440037, India

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13/09/2025 11:17 AM GMT +05:30

Google



Nagpur, Maharashtra, India

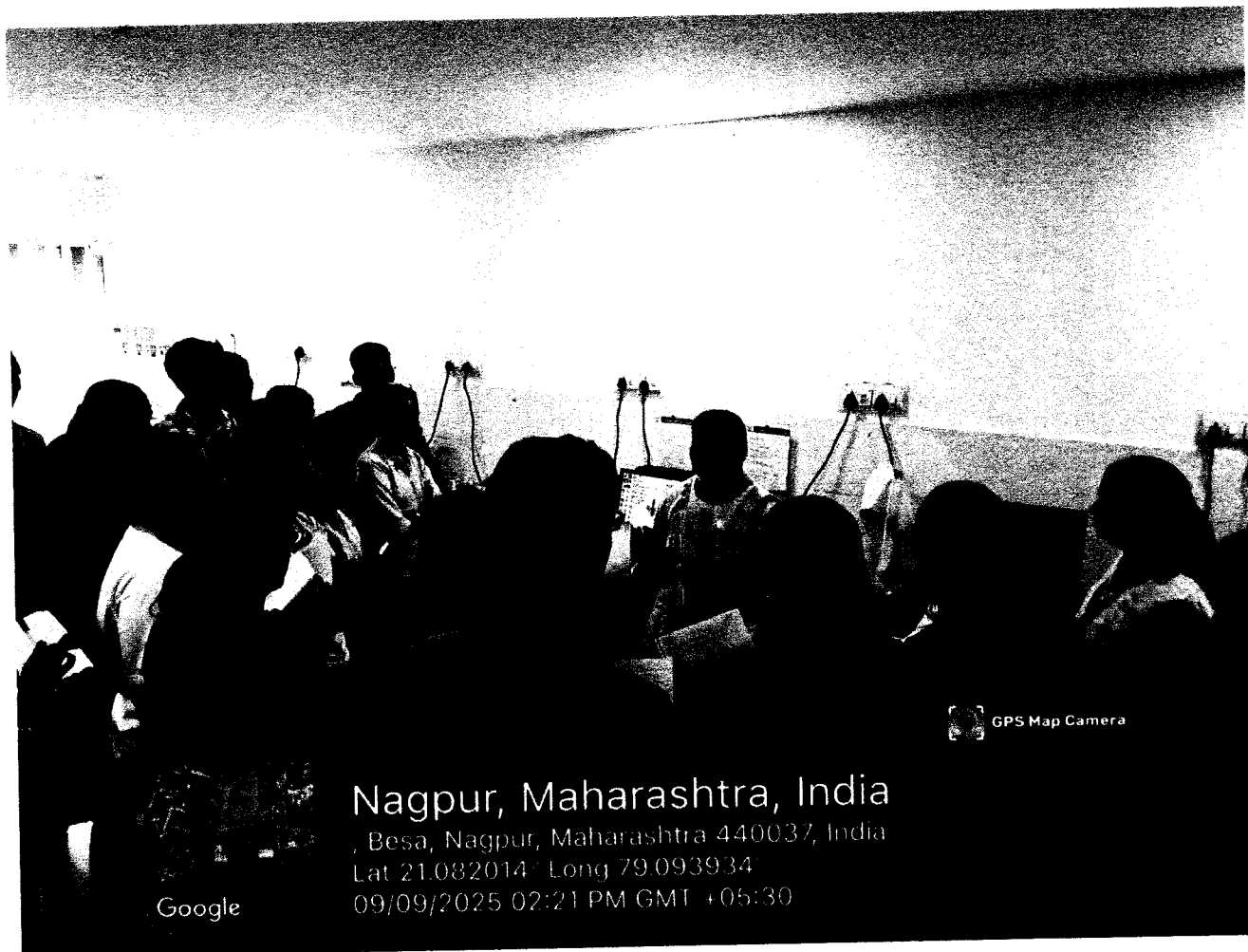
37, Kadambika Vihar, Besa, Nagpur, Maharashtra 440037, India

Lat 21.082768° Long 79.093842°

13/09/2025 03:13 PM GMT +05:30

Google

S.M. Bagde



GPS Map Camera

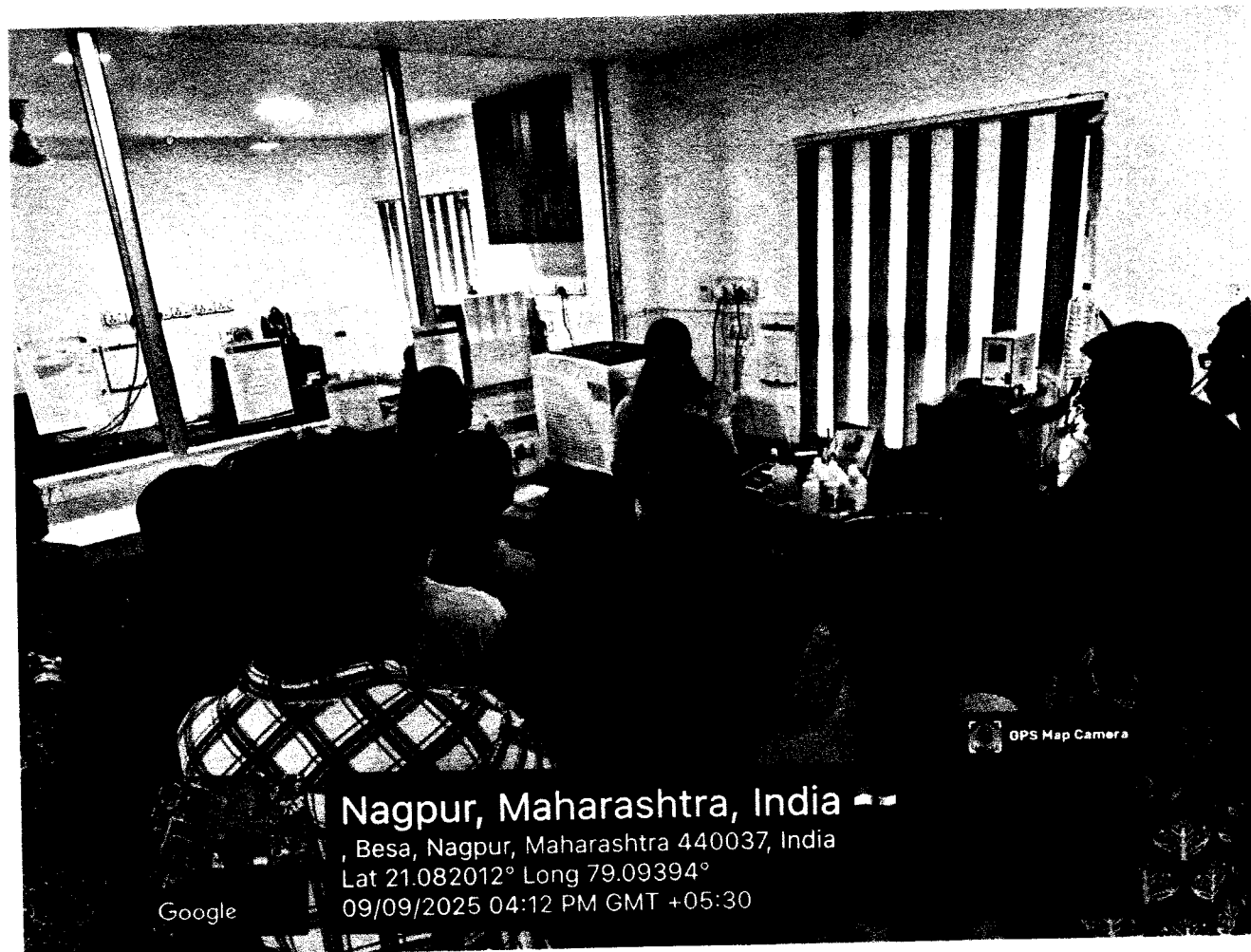
Nagpur, Maharashtra, India

, Besa, Nagpur, Maharashtra 440037, India

Lat 21.082014° Long 79.093934°

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GPS Map Camera

Nagpur, Maharashtra, India

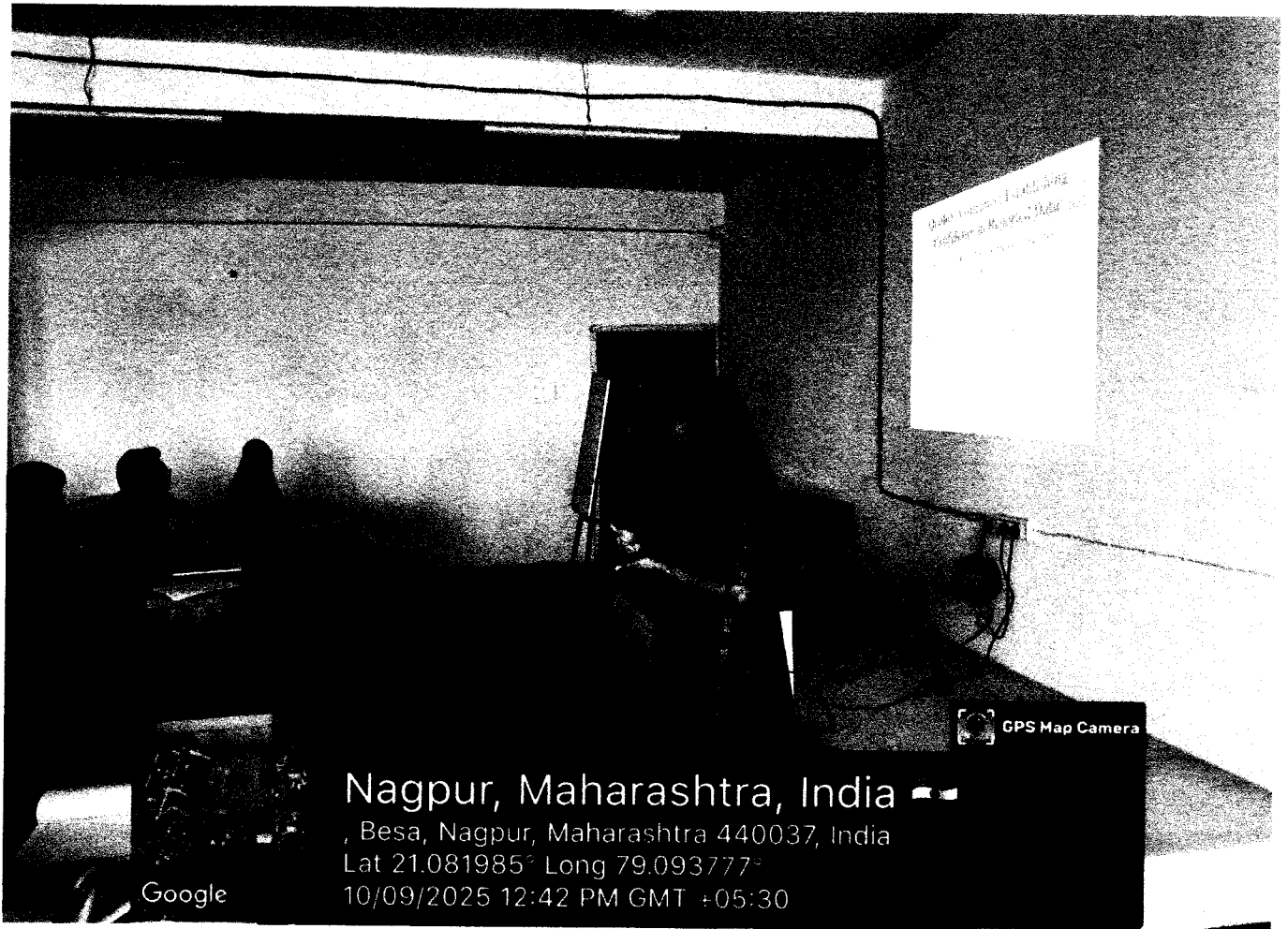
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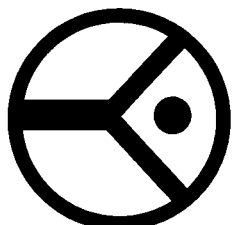
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(S.M. Bagde)



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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)



Certificate



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 **08th September 2025 to 13th September 2025** 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

Dr. Sandhy Bagde

Course Co-ordinator

Dr. Samit Mahore

Director

Dadasaheb Balpande College of Pharmacy, Besa, Near Dadasaheb Balpande College of Pharmacy

Board of Lifelong Learning and Extension

