

<b>Key Indicator:</b>	<b>1. Curricular Planning and Implementation</b>
<b>1.3.3</b>	<b>Number of students undertaking project work/field work/ internships</b>
<b>File Description</b>	<b>Additional information</b>

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<b>1.3.3</b>	<b>Number of students undertaking project work/field work/ internships</b>
<b>Sr. No.</b>	<b>Details of Document</b>
<b>1.</b>	<b>M. Pharmacy Pharmaceutics Dissertation Topic with Student Details Academic Year- 2022-23</b>
<b>2.</b>	<b>M. Pharmacy Quality Assurance Dissertation Topic with Student Details Academic Year- 2022-23</b>
<b>3.</b>	<b>M. Pharmacy Pharmaceutical Chemistry Dissertation Topic with Student Details Academic Year- 2022-23</b>
<b>4.</b>	<b>Pharmacy Final Year Project Topic with student Details Academic Year- 2022-23</b>
<b>5.</b>	<b>Field work Details</b>
<b>6.</b>	<b>Statement of The Candidate Who Have Submitted Internship Training Certificate for Academic Year 2022-2023</b>

**1.3.3 Number of students undertaking project work/field work/ internships**

<b>Parameter</b>	<b>Total No. of Students</b>
<b>M. Pharm</b>	<b>36</b>
<b>B.Pharm</b>	<b>50</b>

<b>Parameter</b>	<b>Total No. of Students internships</b>
<b>B.Pharm</b>	<b>03</b>

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2023**

**M. Pharmacy Dissertation Topic (Year- 2022-23)**

**B.O.S.: Pharmaceutics Semester: IV**

<b>Sr.No.</b>	<b>Name of Student</b>	<b>Topic</b>	<b>Internal Guide</b>
1	GORE SANJIVANI DATTATRAY	Formulation Evaluation And Pilot Production Of Transdermal Drug Delivery System.	Dr. Amol U. Gayke
2	PRIYANKA SANJAY SONAWANE	Modified Release Formation drug delivery system for Cardio Vascular Drug	Dr. Amol U. Gayke
3	ABHISHEK PRABHAKAR SHINDE	Design and Development of an Osmotically Controlled Antihypertensive Drug Delivery System	Dr. Amol U. Gayke
4	PRACHI RAJU TELGOTE	Pulsatile Drug Delivery of natural non-steroidal Anti-inflammatory drug	Dr. Amol U. Gayke
5	MAYURI PRAVINDRA WAGH	A study on Formulation and Characterization of Novel bilateral tablet of Anti-hypertensive drug.	Dr. Amol U. Gayke
6	VAIBHAV BHAUSAHEB SANDHAN	Formulation and Evaluation of Polyherbal dosage form exhibiting Anti-acne activity.	Dr. Amol U. Gayke
7	LAD RAVINDRA SOMNATH	Formulation and Evaluation of Proniosomal Transdermal Gel of Pure Drug.	Dr. Amol U. Gayke



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8	AGRAWAL SHWETA RAJANIKANT	Design, development and evaluation of mouth dissolving tablet for the treatment of hypertension	Dr. Pravin B. Suruse
9	AHER VIVEK DNYANESHWAR	Design, development and evaluation of herbal cream containing extract of <i>Ruellia tuberosa</i> and <i>Ocimum sanctum</i> for the treatment of topical skin infection	Dr. Pravin B. Suruse
10	AWALGAVE RUSHIKESH MARUTI	Design, development and evaluation of emulgel containing extract of <i>Martynia annua</i> for treatment of diabetic wound healing	Dr. Pravin B. Suruse
11	BHARAT ASHOK JADHAV	Design, development and evaluation of herbal ointment containing extract of <i>Aerva lanata</i> for the treatment of fungal infection	Dr. Pravin B. Suruse
12	CHAVAN DIPALI ARUN	Design, development and evaluation of transdermal patch of Pefloxacin for the treatment of bacterial infection	Dr. Pravin B. Suruse
13	DESHMUKH AKANKSHA PRABHATRAO	Design, development and evaluation of fast dissolving film of Rimegepant for the treatment of migraine	Dr. Pravin B. Suruse
14	GAWALI MANGESH BALASAHEB	Design, development and evaluation of buccal tablet of <i>Terminalia chebula</i> for the treatment asthma	Dr. Pravin B. Suruse
15	ATUL SHIVAJI PAWAR	Formulation, development and evaluation of extended released bilayered tablet	Dr. Pravin B. Suruse



  
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2023**

**M. Pharmacy Dissertation Topic**  
**(Year- 2022-23)**

**B.O.S.: Quality**  
**Assurance**

**Semester: IV**

<b>Sr.No.</b>	<b>Name of Student</b>	<b>Topic</b>	<b>Internal Guide</b>
1	DASHPUTE SANKET NARENDRA	Analytical method development and validation of Lefamulin in bulk drug and dosage form by RP-HPLC method.	Dr. Prerana B. Jadhav
2	ARTI DEVNATH KHOTRE	Development and validation of RP-HPLC method for estimation of Faropenem in bulk drug and liquid dosage form.	Dr. Prerana B. Jadhav
3	AVHAD SANDIP SURYABHAN	RP-HPLC method development and validation for estimation of Prucalopride in bulk drug and dosage form.	Dr. Prerana B. Jadhav
4	APURVA DINKAR TEKNAR	RP-HPLC method development and validation for estimation of Tofacitinib in bulk drug and dosage form.	Dr. Prerana B. Jadhav
5	TAMBE PAVAN ASHOKRAO	Development and validation of RP-HPLC method for determination of Alcaftadine and Ketorolac tromethamine in bulk drug and its ophthalmic Solution.	Ms. Sonali A.Waghmare
6	SHETE ASHOK KAILAS	Development and validation of stability indicating RP-HPLC method for estimation of Fluoxetine in bulk and pharmaceutical dosage form.	Ms. Sonali A.Waghmare
7	SARWDE PALLAVI PANDURANG	Development and validation of analytical method for Molnupiravir by RP-HPLC	Ms. Sonali A.Waghmare
8	SHINDE GANESH VIJAY	Development and validation of RP-HPLC method for determination of Lenvatinib in bulk and dosage form.	Ms. Sonali A.Waghmare

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9	DALVI YOGESH HARI	To Develop a simple, Precise and Accurate RP-HPLC method for estimation of Safinamide in Bulk Drug and Dosage form by using QBD approach	Ms. Sonali A.Waghmare
10	KOTKAR MAYUR KISHOR	"RP- HPLC method development and validation for estimation of Baricitinib in bulk drug and dosage form"	Dr. Ramesh S. Kalkotwar
11	GAVLI KALPESH NANA	Design, development and evaluation of nanoparticles loaded transdermal patch of Ertugliflozin for treatment of Type II diabetes mellitus	Dr. Ramesh S. Kalkotwar
12	BORSE PRASAD ARJUN	"RP- HPLC method development and validation for estimation of Remogliflozin Etabonate in bulk drug and dosage form"	Dr. Ramesh S. Kalkotwar
13	MONALI TUKARAM GAIKWAD	"LC-MS MS method development and validation of Quercetagenin and its applications"  "LC-MS MS method development and validation of Quercetagenin and its applications"	Dr. Ramesh S. Kalkotwar
14	KANAWADE SHUBHAM SOMNATH	RP-HPLC method development and validation for simultaneous estimation of Teneligliptin and Plioglitazone in bulk and tablet dosage form	Mrs. Manjushri P. Dabhade
15	GAIKWAD KIRAN SURESH	Assay Method Development and Validation for Simultaneous estimation of Mometasone Furoate and Azelastine HCl for Nasal Spray by RP-HPLC.	Mrs. Manjushri P. Dabhade



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**M. Pharmacy Dissertation Topic (Year- 2022-23)**

**Semester: IV B.O.S.: Pharmaceutical Chemistry**

Sr.No.	Name of Student	Topic	Internal Guide
1	SHELKE ABHISHEK RAJENDRA	RP-HPLC method development and validation for estimation of Brivaracetam in bulk drug and dosage form.	Dr. Prerana B. Jadhav
2	VALATE SONALI NAMDEV	Design, synthesis and biological evaluation of 1,3,4 thiazole derivatives for antidiabetic activity	Dr. Prerana B. Jadhav
3	CHAVAN SHIVANI UDAY	Design, synthesis and biological evaluation of some novel 1,3,4-Oxadiazole derivatives as potential antidiabetic agents	Ms. Sonali A.Waghmare
4	AMALE RAVINDRA MOTIRAM	RP-HPLC method for estimation of Dolutegravir sodium in bulk drug and dosage form including solution stability and filtration study as per ICH Q2R1 guidelines	Ms. Sonali A.Waghmare
5	GARUD YOGESH RAMESH	Design, synthesis and biological evaluation of 1,2,4- Triazole derivatives for antimicrobial activity	Mrs. Manjushri P. Dabhade
6	JADHAV SONALI SOMNATH	Design ,synthesis and biological evaluation of 1,3,4 oxadiazole derivative for antimicrobial activity	Ms. Sonali A.Waghmare



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 REPORT FOR FOLLOWING EXAMINATION OF SUMMER, 2022-2023**

**B. Pharmacy Final Year  
 Project Topic (Year- 2022-23)  
 Semester: VII**

SR.NO	STUDENT NAME	TOPIC	GUIDE
1.	Hire Dinesh Ashok	FORMULATION AND EVALUATION OF PEEL-OFF FACE MASK GEL CONTAINING FICUS RELIGIOSA ZNO NANOPARTICALS	Miss.A.S Punekar
2.	Kshitij Dipak Ghusale	THE EFFICACY OF RECOMBINANT SPIKE XBB.1.5 PROTEIN VACCINE IN INDUCING COMPREHENSIVE IMMUNE RESPONSES AGAINST OMICRON VARIANTS OF SARS –COV-2 CONTAINING XBB.1.5	Prof.P.L.Nikam
3.	Gore Prathamesh Khanderao	STUDY THE SELF MEDICATION PRACTICE AND PATTERN OF OVER THE COUNTER DRUG USE AMONG THE PATIENT VISITING COMMUNITY HELTHCARE FACILITIES :CROSS SECTIONAL OBSERVATIONAL STUDY	Prof. Dr . Amol U Gayke
4.	Yogeshwari Nilkantha Gunjal	FORMULATION AND EVALUATION OF HERBAL BELLY BUTTON OIL	Prof Dr. Amol U Gayke
5.	Kapadi Vijaya Dattatraya	FORMULATION AND EVALUATION OF HERABAL GARLIC PEELS HANDWASH	Prof P.L.Nikam
6.	Akshay Devidas Harpade	FORMULATION AND EVALUATION OF FACE SERUM USING ROSE PETALS	Prof .Dr.Amol U.Gayke
7.	Bornare Pooja Ashok	FORMULATION AND EVALUATION OF HERBAL GEL	Prof .Dr.Amol U.Gayke
8.	Ghilap Shubhangi Ramdas	FORMULATION EVALUATION OF HERBAL BISCUIT	Prof .Dr.Amol U.Gayke
9.	Payal R. Khairmode	FORMULATION AND EVALUATION OF FACE SERUM USING ROSE PETALS	Prof.M.S.Gangurde And Prof P.L.Nikam
10.	Khodke Sejal Rajendra	FORMULATION AND EVALUATION OF ONION SCRUB	Prof .Dr.Amol U.Gayke

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11.	Kokane Chetan Yuvraj	FORMULATION AND EVALUATION OF HERBAL ANTI – ACNE FACEWASH	Prof. V.N Nagare
12.	Kute Pooja Mohan	FORMULATION AND EVALUATION OF ANTI MICROBIAL HERBAL FACEWASH OF CYNODON DACTYLON	Prof. V.N Nagare
13.	Kokate Gaytri Ravsaheb	FORMULATION AND EVALUATION OF ANTI MICROBIAL HERBAL FACEWASH OF CYNODON DACTYLON	Prof. V.N Nagare
14.	Niphade Rushikesh Sharad	FORMULATION AND EVALUATION OF ANTI-AGING GEL	Prof P.L.Nikam
15.	Gaytri Sopan Sanap	HOSPITAL TRAINING	S.A Waghmare
16.	Rushikesh Krushnath Kadam	HOSPITAL TRAINING	Mrs.Sharma
17.	Patole Prajкта Raghu	QUALITY BY DESIGN APPROACHES IN BULK AND THEIR DOSAGE FORM	Mr.R.B.Darde
18.	Kamodkar Sagar Govind	FORMULATION AND EVALUATION OF HERBAL GARLIC PEELS HANDWASH	Prof.P.L.Nikam
19.	Pagre Sakshi Rajendra	FORMULATION DEVELOPMENT CHARACTERIASARION AND EVALUATON OF NIOSOMES	Dr.Barde.L.G
20.	Priyanka Lahanu Kale	PHARMACOGNOSTIC AND PHYTONUTRIENTS INVESTIGATION OF KARANJA	Prof.P.L.Nikam
21.	Gawand Rushekesh Pandit	FORMULATION AND EVALUATION OF ANTI-AGING GEL	Prof.P.L.Nikam
22.	Kishor S.Gavandi	FORMULATION AND EVALUATION OF COSMATICS HEABAL FACEPACK FOR GLOWING SKIN	Prof.P.L.Nikam
23.	Pagar Vishal Bhaulal	FORMULATION DEVELOPMENT CHARACTERIASARION AND EVALUATON OF NIOSOMES	Dr.Barde.L.G
24.	Pagar Gaurav Ratan	FORMULATION DEVELOPMENT CHARACTERIASARION AND EVALUATON OF NIOSOMES	Dr.Barde.L.G
25.	Jadhav Avinash Bhaturam	FORMULATION AND EVALUATION OF PEEL-OFF FACE MASK GEL CONTAINING FICUS	Miss.A.S Punekar

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		RELIGIOSA ZNO NANOPARTICALS	
26.	Tejal Chandrarhar Kadam	FORMULATION AND EVALUATION OF HERBAL HAIR MASK	Mrs.Sharma K.S
27.	Bhavik Ganesh Kalamkar	FORMULATION AND EVALUATION OF HERBAL HAIR MASK	Mrs.Sharma.K.S
28.	Poye Kalyani Somnath	A REVIEW ON QUALITY BY DESIGN IN FORMULATION AND DEVLOPMENY	Mr.R.B.Darde
29.	Pawar Vrushali Valmik	QUALITY BY DESIGN IN FORMULATION AND DEVLOPMENY	Mr.R.B.Darde
30.	Khode Sejal Rajendra	ALLIUM SATIVUM : A SYSTEMIC AND COMPREHENSIVE REVIEW	Mr.Gangurde M.S
31.	Kalamkar Bhavik Ganesh	INDUSTRIAL TRAINING PERFORMADE AT MCCOY PHARMA PVT.LTD,PALGHAR	Mrs.Sharma K.S
32.	Daghale Priyanka Suresh	PATIENT CASE STUDY	Ms.Bhingare A.V
33.	Chopdar Alisha Salim	PATIENT CASE STUDY	Ms.Bhingare A.V
34.	Thorat Tejas Bhausaeheb	BP706S-PRACTICE SCHOOL MODULES ON HERBAL DRUG TECHNOLOGY	Prof .Palghadmal .P.S
35.	Thombare Vrushali Dnyaneshwar	BP706S-PRACTICE SCHOOL MODULES ON HERBAL DRUG TECHNOLOGY	Prof .Palghadmal .P.S
36.	Tamboli Busra Latif	BP706S-PRACTICE SCHOOL MODULES ON HERBAL DRUG TECHNOLOGY	Prof .Palghadmal .P.S
37.	Gawand Rushikesh Pandit	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Mrs.Dabhade M.P
38.	Gavandi Kishor Sanjay	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Mrs.Dabhade M.P
39.	Bhosale Gaurav Vijay	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Dr.Mrs.P.B.Jadhav
40.	Gawali Pooja Santosh	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Mrs.Dabhade M.P
41.	Aware Arun Appasaheb	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Dr.Mrs.P.B.Jadhav
42.	Aghav Aksahy Santosh	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Dr.Mrs.P.B.Jadhav

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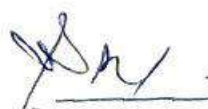
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43.	Gaikwad Trunal Sunil	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Mrs.Dabhade M.P
44.	Ahire Pooja Sahebrao	DRUG DESIGN AND SYNTHETIC CHEMISTRY APPROACHES	Dr.Mrs.P.B.Jadhav
45.	Ubale Prashik Deelip	BP706S-PRACTICE SCHOOL MODULES ON HERBAL DRUG TECHNOLOGY	Prof .Palghadmal .P.S
46.	Yogeshwari Nilkantha Gunjal	HOSPITAL REPORT	Prof Dr. Amol U Gayke
47.	Kapadi Vijaya Dattatraya	HOSPITAL REPORT	Mr.Gangurde M.S
48.	Kale Priyanka Lahanu	HOSPITAL REPORT	Mr.Gangurde M.S
49.	Pagar Vishal Bhaulal	HOSPITAL REPORT	Dr.Barde.L.G
50.	Niphade Rushikesh Sharad	HOSPITAL REPORT	Miss.Bhavsar P.P



  
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**Field work during the Academic Year 2022-2023**

**Industrial Visit Krivi Herbals PVT.LTD,Daman, Gujarat**

The final-year students and faculty members attended the industrial visit on November 29, 2022. Mr. Kishan Agrawal, the company's Head, allowed the students to engage well with him and learn about the workflow of each department.

Both the students and staff members regarded it to be a very educational and instructive experience.



*Final Year B.Pharm Student visising the various department during the visit.*



*Company's Head giving information to the students*

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**STATEMENT OF THE CANDIDATE WHO HAVE SUBMITTED INTERSHIP  
TRAINING CERTIFICATE FOR ACADEMIC YEAR 2022-2023**

**B. Pharmacy Final Year**

<b>Parameter</b>	<b>Total No. of Students internships</b>
<b>B.Pharm</b>	<b>03</b>



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Ref: SPN/HR/01/22-23  
Date: 25/08/2022

CERTIFICATE

This is to certify that **Tejas Bhausaheb Thorat** studying in **B.pharm** at **SND College of pharmacy, Babulgaon Yeola**. He has completed Industrial Training from 24-07-2022 to 25-08-2022 in our Company Sangeeta Pharma Sinnar. He has collected all information, which was required for the purpose of completion of his Training program.

**Tejas Bhausaheb Thorat** was shown around the facility through all manufacturing sections and He was very interested, observant and keen.

We wish Him all the best for future endeavors.

For Sangeeta Pharma  
Quality Head  
Sangeeta Pharma



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**Vatsal Ayurvedic  
Products Pvt. Ltd.**

Reg. Office: 18, Siddhivinayak Industrial  
Estate, Ozar(MIG), Niphad, Nashik- 422206  
E: rajson@gmail.com | W: www.vappl.com  
M: +91 93254 52758 | P: (02550) 271401

**Industrial Training Certificate**

This is to certify that

**Mr Ugale Rohit Vitthal**

has completed **Industrial Training**

from 25-07-2022 To 25-08-2022

His conduct during that period was satisfactory

Vatsal Ayurvedic Products (P) Ltd.  
18, Siddhivinayak Ind. Est.,  
Ozar (Mig), NASHIK



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Ref: SPN/HR/01/22-23  
Date: 25/08/2022

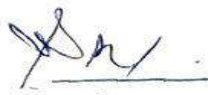
CERTIFICATE

This is to certify that **Pagar Gaurav Ratan** studying in **B.pharm** at **SND College of pharmacy, Babulgaon Yeola**. He has completed Industrial Training from 24-07-2022 to 25-08-2022 in our Company Sangeeta Pharma Sinnar. He has collected all information, which was required for the purpose of completion of his Training program.

**Pagar Gaurav Ratan** was shown around the facility through all manufacturing sections and He was very interested, observant and keen.  
We wish Him all the best for future endeavors.

For Sangeeta Pharma.  
Quality Head  
Sangeeta Pharma



  
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# **SAVITRIBAI PHULE PUNE UNIVERSITY**

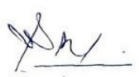
## **FACULTY OF SCIENCE AND TECHNOLOGY**



## **RULES & SYLLABUS**

### **FIRST YEAR MASTER OF PHARMACY (M. Pharm.) COURSE** **(EFFECTIVE FROM ACADEMIC YEAR 2019-2020)**



  
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**Table – 1: List of M.Pharm. Specializations and their Code**

<b>Sr. No.</b>	<b>Specialization</b>	<b>Code</b>
1.	Pharmaceutics	MPH
2.	Industrial Pharmacy	MIP
3.	Pharmaceutical Chemistry	MPC
4.	Pharmaceutical Analysis	MPA
5.	Pharmaceutical Quality Assurance	MQA
6.	Pharmaceutical Regulatory Affairs	MRA
7.	Pharmaceutical Biotechnology	MPB
8.	Pharmacy Practice	MPP
9.	Pharmacology	MPL
10.	Pharmacognosy	MPG

The course of study for M.Pharm specializations shall include Semester wise Theory & Practical as given in Table - 2 to 11. The number of hours to be devoted to each theory and practical course in any semester shall not be less than that shown in Table - 2 to 11.



  
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**“RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF BARICITINIB IN BULK DRUG AND DOSAGE FORM”**

**A**

**Dissertation**

**Submitted To Savitribai Phule Pune University,  
Pune, Maharashtra.**



**In partial fulfilment of the requirements for the degree of  
MASTER OF PHARMACY**

**IN**

**QUALITY ASSURANCE**

**Submitted by:**

**Mr. KOTKAR MAYUR KISHOR**

**B. Pharmacy**

**Under the Guidance of**

**Prof. Dr. R. S. KALKOTWAR**

**M. Pharmacy, Ph.D.**



**Department of Quality Assurance.**

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**2022-2023**


Jagdamba Education Society's  
**SND College of Pharmacy**  
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**CERTIFICATE BY THE GUIDE**

This is to certify that the dissertation entitled "RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF BARICITINIB IN BULK DRUG AND DOSAGE FORM" is a bonafide and genuine research work carried out by **Mr. KOTKAR MAYUR KISHOR** under my direct supervision, in partial fulfilment of the requirement for the degree of Master of Pharmacy in Quality Assurance at Savitribai Phule Pune University, Pune.

Date 20/6/2023  
Place: Babhulgaon (Yeola).

  
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**ENDORSEMENT BY THE PRINCIPAL**

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Date: 20/6/2022  
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Date: 20/6/2022  
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**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation entitled entitled "RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF BARICITINIB IN BULK DRUG AND DOSAGE FORM" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of Prof. Dr. R. S. Kalkotwar at SND College of Pharmacy, Yeola, Nashik.

**Date:** 20/6/2023

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**Signature**

Mr. Kotkar Mayur Kishor



**“LC-MS MS METHOD DEVELOPMENT AND VALIDATION OF  
QUERCETAGETIN AND ITS APPLICATIONS”**

**A  
Dissertation  
Submitted To Savitribai Phule Pune University,  
Pune, Maharashtra.**



**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY  
IN  
QUALITY ASSURANCE**

**Submitted by:  
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**"RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR  
ESTIMATION OF REMOGLIFLOZIN ETABONATE IN BULK DRUG AND  
DOSAGE FORM"**

**A**

**Dissertation**

**Submitted To Savitribai Phule Pune University,  
Pune, Maharashtra.**



**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY**

**IN**

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**CERTIFICATE BY THE GUIDE**

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Date: 20/6/2023  
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**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation entitled **"RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF REMOGLIFLOZIN ETABONATE IN BULK DRUG AND DOSAGE FORM"** is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Prof. Dr. R. S. Kalkotwar, SND College of Pharmacy, Yeola, Nashik.**

**Date:** 20/06/2023  
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**“DESIGN, DEVELOPMENT, AND EVALUATION OF NANO-  
PARTICLE LOADED TRANSDERMAL PATCH OF  
ERTUGLIFLOZIN FOR TREATMENT OF TYPE 2 DIABETES  
MELLITUS”**

**A**

**Dissertation**

**Submitted to Savitribai Phule Pune University,  
Pune, Maharashtra.**



**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY  
IN  
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This is to certify that the dissertation entitled "Design, development, and evaluation of nano-particle loaded transdermal patch of ertugliflozin for treatment of type 2 diabetes mellitus" is a bonafide and genuine research work carried out by Mr. Kalpesh N. Gawali under my direct supervision, in partial fulfilment of the requirement for the degree of **Master of Pharmacy in Quality Assurance** at Savitribai Phule Pune University, Pune.

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**ENDORSEMENT BY THE PRINCIPAL**

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**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation "**Design, development, and evaluation of nano-particle loaded transdermal patch of ertugliflozin for treatment of type 2 diabetes mellitus**" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Prof. Mrs. Dabhade M.P.** at SND College of Pharmacy, Yeola, Nashik.

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**DESIGN, DEVELOPMENT AND EVALUATION OF HERBAL  
OINTMENT CONTAINING EXTRACT OF *AERVA LANATA* FOR  
THE TREATMENT OF FUNGAL INFECTION**

**A**

**Dissertation**

**Submitted to Savitribai Phule Pune University,**

**Pune, Maharashtra**



**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY  
IN  
PHARMACEUTICS**

**Submitted by:**

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This is to certify that the dissertation entitled "Design, development and evaluation of herbal ointment containing extract of *Aerva lanata* for the treatment of fungal infection" is a bonafide and genuine research work carried out by Mr. Bharat A. Jadhav under my direct supervision, in partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutics** at Savitribai Phule Pune University, Pune.

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This is to certify that this dissertation entitled "Design, development and evaluation of herbal ointment containing extract of *Aerva lanata* for the treatment of fungal infection" is a bonafide and genuine research work carried out by Mr. Bharat A. Jadhav Under the guidance of Dr. P. B. Suruse in partial fulfilment of the requirement for the degree of Master of Pharmacy in Pharmaceutics at Savitribai Phule Pune University, Pune.

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### DECLARATION BY CANDIDATE

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Date: 07/06/23

Place: Babhulgaon

Mr. Bharat A. Jadhav

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Date: 07/06/23



**DEVELOP A SIMPLE, PRECISE, AND ACCURATE RP-HPLC METHOD  
FOR ESTIMATION OF SAFINAMIDE IN BULK DRUG AND DOSAGE  
FORM BY USING QBD APPROACH**

**A  
Dissertation  
Submitted To Savitribai Phule Pune University,  
Pune, Maharashtra.**



In partial fulfilment of the requirements for the degree of

**MASTER OF PHARMACY  
IN  
QUALITY ASSURANCE**

**Submitted by:  
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(B. Pharmacy)**

**Under the Guidance of**

**Asst. Prof: - Miss. S. A. Waghmare. (M. Pharm)**



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This is to certify that the dissertation entitled "Develop a simple, precise, and accurate RP-HPLC method for estimation of safinamide in bulk drug and dosage form by using QbD approach." is a bonafide and genuine research work carried out by **Mr. Dalvi Yogesh Hari** under my direct supervision, in partial fulfilment of the requirement for the degree of Master of Pharmacy in Quality Assurance at Savitribai Phule Pune University, Pune.

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Date: 23/08/2023  
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**"DEVELOPMENT AND VALIDATION OF RP-HPLC METHOD FOR  
DETERMINATION OF ALCAFTADINE & KETOROLAC  
TROMETHAMINE IN BULK DRUG AND ITS OPHTHALMIC SOLUTION"**

**A  
Dissertation**  
Submitted To Savitribai Phule Pune University,  
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In partial fulfilment of the requirements for the degree of

**MASTER OF PHARMACY  
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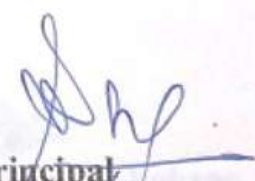


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## ACKNOWLEDGEMENT

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Date: 10/07/2023

**Date: 10/07/2023**  
**Place: Babhulgaon.**

  
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**“MODIFIED RELEASE FORMULATION DRUG DELIVERY  
SYSTEM FOR CARDIOVASCULAR DRUGS”**

**A**

**Dissertation**

**Submitted To Savitribai Phule Pune University,**



**Pune, Maharashtra.**

**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY**

**IN**

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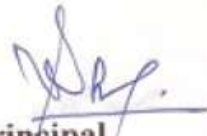


## ENDORSEMENT BY THE PRINCIPAL

This is to certify that this dissertation entitled **“MODIFIED RELEASE FORMULATION DRUG DELIVERY SYSTEM FOR CARDIOVASCULAR DRUGS”** is a bonafide and genuine research work carried out by **Miss.Priyanka S.Sonawane** Under the guidance of **Prof.Dr.. Amol U. Gaykein** partial fulfilment of the requirement for the degree of Master of Pharmacy in Pharmaceutical Chemistry at Savitribai Phule Pune University, Pune.

Date: 20/6/2023  
Place: Babhulgaon



  
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M. Pharm. Ph.D  
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## ACKNOWLEDGEMENT

I think that if we reflect on who we are, or how we have got here, we may discover a little more about our life. Others whom we have met one day, may have slipped into our oblivion now day. I believe it is appropriate to acknowledge those who we still remember, those we know have directly shaped our lives, and it is thus my pleasure to have this opportunity to express gratitude to those who have contributed to my education and other.

First and foremost, I express my sincere regards and heartfelt thanks to Prof. Dr. Amol U. Gayke, for his my numerous responsibilities, his patience and his guidance and encouragement, this thesis would not have been possible without his



## DECLARATION BY CANDIDATE

I hereby declared that the dissertation entitled **“MODIFIED RELEASE FORMULATION DRUG DELIVERY SYSTEM FOR CARDIOVASCULAR DRUGS”** is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of Prof. Dr. Amol U. Gayke at SND College of Pharmacy, Yeola, Nashik.

20/6/2023

Date:

Place: Babhulgaon.

Place: Babhulgaon.

*Sonawane*

Miss. Priyanka S. Sonawane  
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**"PULSATILE DRUG DELIVERY OF NATURAL NON STEROIDAL ANTI  
INFLAMMATORY DRUG"**

**A  
Dissertation  
Submitted To Savitribai Phule Pune University,  
Pune, Maharashtra.**



**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY  
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**Submitted by:  
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**CERTIFICATE BY THE GUIDE**

This is to certify that the dissertation entitled "**Pulsatile Drug Delivery Of Natural Non Steroidal Anti Inflammatory Drug**" is a bonafide and genuine research work carried out by **Miss. Prachi Raju Telgote** under my direct supervision, in partial fulfilment of the requirement for the degree of Master of Pharmacy in Pharmaceutics at SavitribaiPhule Pune University, Pune.

Date: 30/6/2023

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Date: 30/6/2022  
Place Babhulgaon



  
Principal  
Prof. Dr. R.S. Kalkotwar  
M. Pharm. Ph.D  
S. N. D. College of Pharmacy,  
Babhulgaon.


Jagdamba Education Society's  
**S.N.D. College of Pharmacy**  
Babhulgaon, Yeola-423401



### DECLARATION BY CANDIDATE

I hereby declared that the dissertation entitled "**Pulsatile Drug Delivery Of Natural Non Steroidal Anti Inflammatory Drug**" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of Prof. Dr. Amol U. Gaykeat SND College of Pharmacy, Yeola, Nashik.

Date: 30/6/23  
Place: Babhulgaon.

  
Miss. Prachi Raju Telgote  
S. N. D. College of Pharmacy,  
Babhulgaon.



**“DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF  
SOME 1,3,4-OXADIAZOLE DERIVATIVES FOR  
ANTIMICROBIAL ACTIVITY”**

**A**

**Dissertation**

**Submitted to Savitribai Phule Pune University,  
Pune, Maharashtra.**



**In partial fulfilment of the requirements for the degree of**

**MASTER OF PHARMACY  
IN  
PHARMACEUTICAL CHEMISTRY**

**Submitted by:**

**Miss Sonali Jadhav**

**(B. Pharmacy)**

**Under the Guidance of  
Miss. Waghmare S.A.**

**(M. Pharm. Ph. D, Pharmaceutical Chemistry)**



**Department of Pharmaceutical Chemistry.  
S.N.D. College of Pharmacy, Babhulgaon, Tal-Yeola, Dist-Nashik-  
423401**

**2022-2023**



Jagdamba Education Society's

**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "Design, synthesis and biological evaluation of some 1,3,4-oxadiazole derivatives for antimicrobial activity" is a bonafide and genuine research work carried out by **Miss Sonali Jadhav** under my direct supervision, in partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutical Chemistry** at Savitribai Phule Pune University, Pune.

Date: 09/07/2023

Place: Babhulgaon.

Miss. Waghmare S.A.

M. Pharm. Pursuing Ph.D

S. N. D. College of Pharmacy, Babhulgaon.

Jagdamba Education Society's  
**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



**ENDORSEMENT BY THE PRINCIPAL**

This is to certify that this dissertation entitled "Design, synthesis and biological evaluation of some 1,3,4-oxadiazole derivatives for antimicrobial activity" is a bonafide and genuine research work carried out by Miss Sonali Jadhav Under the guidance of Miss. Waghmare S.A. in partial fulfilment of the requirement for the degree of Master of Pharmacy in Pharmaceutical Chemistry at Savitribai Phule Pune University, Pune.

Date: 9/7/23  
Place: Babhulgaon



  
Principal

**Prof. Dr. R.S. Kalkotwar**

M. Pharm. Ph.D

S. N. D. College of Pharmacy,  
Babhulgaon.



Jagdamba Education Society's

**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



**DECLARATION BY CANDIDATE**

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Date: 09/07/2023

Place: Babhulgaon.

**Miss Sonali Jadhav**

S. N. D. College of Pharmacy,

Babhulgaon.



Jagdamba Education Society's

**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



**CERTIFICATE BY THE GUIDE**

This is to certify that the dissertation entitled "Design, synthesis and biological evaluation of 1,3,4 thiadiazole derivatives for antidiabetic activity" is a bonafide and genuine research work carried out by **Miss. Sonali Namdev Valate** under my direct supervision, in partial fulfilment of the requirement for the degree of **Master of Pharmacy in Pharmaceutical Chemistry** at Savitribai Phule Pune University, Pune.

Date: 20/06/2023

Place: Babhulgaon.

  
Asst. Prof. Dr. Prerana B. Jadhav

M. Pharm. Ph. D

S. N. D. College of Pharmacy, Babhulgaon.

Jagdamba Education Society's

## S.N.D. College of Pharmacy

Babhulgaon, Yeola-423401



### ENDORSEMENT BY THE PRINCIPAL

This is to certify that the dissertation entitled "Design, synthesis and biological evaluation of 1,3,4 thiadiazole derivatives for antidiabetic activity" is a bonafide and genuine research work carried out by Miss. Sonali Namdev Valate Under the guidance of Asst. Prof. Dr. Prerana B. Jadhav in partial fulfilment of the requirement for the degree of Master of Pharmacy in Pharmaceutical Chemistry at Savitribai Phule Pune University, Pune.

Date: 20/6/2023

Place: Babhulgaon

Principal

Prof. Dr. R.S. Kalkotwar

M. Pharm. Ph.D

S. N. D. College of Pharmacy,

Babhulgaon.





Jagdamba Education Society's  
**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation entitled "Design, synthesis and biological evaluation of 1,3,4 thiadiazole derivatives for antidiabetic activity" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Asst. Prof. Dr. Prerana B. Jadhav** at S.N.D. College of Pharmacy, Babhulgaon, Yeola, Nashik.

Date: 20/06/2023

Place: Babhulgaon.

Date: 20/06/2023

Miss. Sonali Namdev Valate

S. N. D. College of Pharmacy,

Babhulgaon, Yeola



Jagdamba Education Society's  
**SND College of Pharmacy**

Babhulgaon, Yeola-423401



**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation entitled entitled " RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF DOLUTEGRAVIR SODIUM IN BUIK DRUG AND DOSAGE FORM INCLUDING SOLUTION STABILITY AND FILTRATION STUDY AS PER ICH Q2R1 GUIDELINES " is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Miss Waghmare sonali A. Asst. Prof., SND College of Pharmacy, Yeola, Nashik.**

Date: 28/06/2023

Place: Babhulgaon (Yeola)

Signature

Mr. Ravindra M Amale

Jagdamba Education Society's

**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation entitled "Design, synthesis, and biological evaluation of novel 1,3,4-oxadiazole derivatives as potential antidiabetic agents" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Asst. Prof. Miss. Sonali Arun Waghmare** at S.N.D College of Pharmacy, Yeola, Nashik.

Date: 20/06/2023

Place: Babhulgaon.

**Miss. Shivani Uday Chavan**

S. N. D. College of Pharmacy,  
Babhulgaon.



Jagdamba Education Society's  
**SND College of Pharmacy**

Babhulgaon, Yeola-423401



**DECLARATION BY CANDIDATE**

I hereby declared that the dissertation entitled entitled "RP- HPLC METHOD DEVELOPMENT AND VALIDATION FOR ESTIMATION OF BRIVARACETAM IN BULK DRUG AND DOSAGE FORM" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Dr. Mrs. Prerana. B. Jadhav, Asst. Prof., SND College of Pharmacy, Yeola, Nashik.**

**Date:** 20/06/2023

**Place:** Babhulgaon (Yeola)

**Signature**

Mr. Abhishek R Shelke



## ACKNOWLEDGEMENT

Jagdamba Education Society's  
**S.N.D. College of Pharmacy**  
Babhulgaon, Yeola-423401



## DECLARATION BY CANDIDATE

I hereby declared that the dissertation entitled **“FORMULATION AND EVALUATION OF POLYHERBAL DOSAGE FORM EXHIBITING ANTI-ACNE ACTIVITY”** is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of Prof.Dr. Amol U. Gayke at SND College of Pharmacy, Yeola, Nashik.

Date:

9/7/23

Place: Babhulgaon.

  
**Mr. Vaibhav Sandhan**

S. N. D. College of Pharmacy,  
Babhulgaon.

Jagdamba Education Society's

## S.N.D. College of Pharmacy

Babhulgaon, Yeola-423401



### DECLARATION BY CANDIDATE

I hereby declared that the dissertation entitled "**Design, development and evaluation of buccal tablet containing extract of *Terminalia chebula* retz for the treatment of asthma**" is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of **Dr. P. B. Suruse** at SND College of Pharmacy, Yeola, Nashik.

Date: 30/06/2023

Place: Babhulgaon

**Mr. Mangesh Gawali**

S. N. D. College of Pharmacy,

Babhulgaon



## ACKNOWLEDGEMENT

Jagdamba Education Society's  
**S.N.D. College of Pharmacy**  
Babhulgaon, Yeola-423401



## DECLARATION BY CANDIDATE

I hereby declared that the dissertation entitled **“FORMULATION AND EVALUATION OF POLYHERBAL DOSAGE FORM EXHIBITING ANTI-ACNE ACTIVITY”** is my own research work and that, to the best of my knowledge it doesn't contains any material previously published or written by another person nor material which has been accepted for the award of any other degree or diploma of the university or other institute of higher learning. This work was carried out by me under the guidance and supervision of Prof.Dr. Amol U. Gayke at SND College of Pharmacy, Yeola, Nashik.

Date: 9/7/23

Date: 9/7/23

Place: Babhulgaon.

  
**Mr. Vaibhav Sandhan**

S. N. D. College of Pharmacy,  
Babhulgaon.



**SAVITRIBAI PHULE PUNE UNIVERSITY**


**FACULTY OF SCIENCE AND TECHNOLOGY**



**RULES & SYLLABUS**

**FIRST YEAR BACHELOR OF PHARMACY (B. Pharm.) COURSE –  
2019 pattern (EFFECTIVE FROM ACADEMIC YEAR 2019-2020)**



  
Principal  
S. N. D. College of Pharmacy  
Babhulgaon, Tal. Yeola (Nasik)

**Table-II: Course of study for semester II**

Course Code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP201T	Human Anatomy and Physiology II – Theory	3/45	1	4
BP202T	Pharmaceutical Organic Chemistry I – Theory	3/45	1	4
BP203T	Biochemistry – Theory	3/45	1	4
BP204T	Pathophysiology – Theory	3/45	1	4
BP205T	Computer Applications in Pharmacy – Theory *	3/45	-	3
BP206T	Environmental sciences – Theory *	3/45	-	3
BP207P	Human Anatomy and Physiology II – Practical	4/60	-	2
BP208P	Pharmaceutical Organic Chemistry I – Practical	4/60	-	2
BP209P	Biochemistry – Practical	4/60	-	2
BP210P	Computer Applications in Pharmacy – Practical*	4/60	-	1
<b>Total</b>		<b>32/480</b>	<b>4</b>	<b>29</b>

\*Non University Examination (NUE)

**Table-III: Course of study for semester III**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP301T	Pharmaceutical Organic Chemistry II – Theory	3/45	1	4
BP302T	Physical Pharmaceutics I – Theory	3/45	1	4
BP303T	Pharmaceutical Microbiology – Theory	3/45	1	4
BP304T	Pharmaceutical Engineering – Theory	3/45	1	4
BP305P	Pharmaceutical Organic Chemistry II – Practical	4/60	-	2
BP306P	Physical Pharmaceutics I – Practical	4/60	-	2
BP307P	Pharmaceutical Microbiology – Practical	4/60	-	2
BP 308P	Pharmaceutical Engineering –Practical	4/60	-	2
<b>Total</b>		<b>28/420</b>	<b>4</b>	<b>24</b>



**Table-VI: Course of study for semester VI**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP601T	Medicinal Chemistry III – Theory	3/45	1	4
BP602T	Pharmacology III – Theory	3/45	1	4
BP603T	Herbal Drug Technology – Theory	3/45	1	4
BP604T	Biopharmaceutics and Pharmacokinetics – Theory	3/45	1	4
BP605T	Pharmaceutical Biotechnology – Theory	3/45	1	4
BP606T	Quality Assurance – Theory	3/45	1	4
BP607P	Medicinal chemistry III – Practical	4/60	-	2
BP608P	Pharmacology III – Practical	4/60	-	2
BP609P	Herbal Drug Technology – Practical	4/60	-	2
<b>Total</b>		<b>30/450</b>	<b>6</b>	<b>30</b>

**Table-VII: Course of study for semester VII**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP701T	Instrumental Methods of Analysis – Theory	3/45	1	4
BP702T	Industrial Pharmacy – Theory	3/45	1	4
BP703T	Pharmacy Practice – Theory	3/45	1	4
BP704T	Novel Drug Delivery System – Theory	3/45	1	4
BP705P	Instrumental Methods of Analysis – Practical	4/60	-	2
BP706PS	Practice School*	12/180	-	6
<b>Total</b>		<b>28/420</b>	<b>5</b>	<b>24</b>

\* Non University Examination (NUE)





**Table-VIII: Course of study for semester VIII**

Course code	Name of the course	No. of Hours per week/Total no of hours	Tutorial	Credit points
BP801T	Biostatistics and Research Methodology	3/45	1	4
BP802T	Social and Preventive Pharmacy	3/45	1	4
BP803ET	Pharmaceutical Marketing	3 + 3 = 6/90	1 + 1 = 2	4 + 4 = 8
BP804ET	Pharmaceutical Regulatory Science			
BP805ET	Pharmacovigilance			
BP806ET	Quality Control and Standardizations of Herbals			
BP807ET	Computer Aided Drug Design			
BP808ET	Cell and Molecular Biology			
BP809ET	Cosmetic Science			
BP810ET	Experimental Pharmacology			
BP811ET	Advanced Instrumentation Techniques			
BP812PW	Project Work	12/180	-	6
<b>Total</b>		<b>24/360</b>	<b>4</b>	<b>22</b>

**Table-IX: Semester wise credits distribution**

Semester	Credit Points
I	27
II	29
III	26
IV	28
V	26
VI	26
VII	24
VIII	22
Extracurricular/ Co curricular activities	01*
<b>Total credit points for the program</b>	<b>209</b>

\* The credit points assigned for extracurricular and or co-curricular activities shall be given by the Principals of the colleges and the same shall be submitted to the University. The criteria to acquire this credit point shall be defined by the colleges from time to time.

\$ Applicable ONLY for the students studied Physics / Chemistry / Botany / Zoology at HSC and appearing for Remedial Mathematics course.

# Applicable ONLY for the students studied Mathematics / Physics / Chemistry at HSC and appearing for Remedial Biology course.




## Semester II

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP201T	Human Anatomy and Physiology II – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP202T	Pharmaceutical Organic Chemistry I – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP203T	Biochemistry – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP204T	Pathophysiology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP205T	Computer Applications in Pharmacy – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP206T	Environmental sciences – Theory*	10	15	1 Hr	25	50	2 Hrs	75
BP207P	Human Anatomy and Physiology II – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP208P	Pharmaceutical Organic Chemistry I – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP209P	Biochemistry – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP210P	Computer Applications in Pharmacy – Practical*	5	5	2 Hrs	10	15	2 Hrs	25
<b>Total</b>		<b>80</b>	<b>125</b>	<b>20 Hrs</b>	<b>205</b>	<b>520</b>	<b>30 Hrs</b>	<b>725</b>

\* The subject experts at college level shall conduct examinations



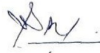
  
**Principal**  
 S. N. D. College of Pharmacy  
 Babhulgaon, Tal. Yeola (Nasik)

## Semester VII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP701T	Instrumental Methods of Analysis – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP702T	Industrial Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP703T	Pharmacy Practice – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP704T	Novel Drug Delivery System – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP705 P	Instrumental Methods of Analysis – Practical	5	10	4 Hrs	15	35	4 Hrs	50
BP706 PS	Practice School*	25	-	-	25	125	5 Hrs	150
<b>Total</b>		<b>70</b>	<b>70</b>	<b>8Hrs</b>	<b>140</b>	<b>460</b>	<b>21 Hrs</b>	<b>600</b>

\* The subject experts at college level shall conduct examinations



  
**Principal**  
 S. N. D. College of Pharmacy  
 Babhulgaon, Tal. Yeola (Nasik)



### Semester VIII

Course code	Name of the course	Internal Assessment				End Semester Exams		Total Marks
		Continuous Mode	Sessional Exams		Total	Marks	Duration	
			Marks	Duration				
BP801T	Biostatistics and Research Methodology – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP802T	Social and Preventive Pharmacy – Theory	10	15	1 Hr	25	75	3 Hrs	100
BP803ET	Pharmaceutical Marketing – Theory	10 + 10 = 20	15 + 15 = 30	1 + 1 = 2 Hrs	25 + 25 = 50	75 + 75 = 150	3 + 3 = 6 Hrs	100 + 100 = 200
BP804ET	Pharmaceutical Regulatory Science – Theory							
BP805ET	Pharmacovigilance – Theory							
BP806ET	Quality Control and Standardizations of Herbals – Theory							
BP807ET	Computer Aided Drug Design – Theory							
BP808ET	Cell and Molecular Biology – Theory							
BP809ET	Cosmetic Science – Theory							
BP810ET	Experimental Pharmacology – Theory							
BP811ET	Advanced Instrumentation Techniques – Theory							
BP812PW	Project Work	-	-	-	-	150	4 Hrs	150
<b>Total</b>		<b>40</b>	<b>60</b>	<b>4 Hrs</b>	<b>100</b>	<b>450</b>	<b>16 Hrs</b>	<b>550</b>



## BP 206 T. ENVIRONMENTAL SCIENCES (Theory)

30 hours

**Scope:** Environmental Sciences is the scientific study of the environmental system and the status of its inherent or induced changes on organisms. It includes not only the study of physical and biological characters of the environment but also the social and cultural factors and the impact of man on environment.

**Objectives:** Upon completion of the course the student shall be able to:

1. Create the awareness about environmental problems among learners.
2. Impart basic knowledge about the environment and its allied problems.
3. Develop an attitude of concern for the environment.
4. Motivate learner to participate in environment protection and environment improvement.
5. Acquire skills to help the concerned individuals in identifying and solving environmental problems.
6. Strive to attain harmony with Nature.

### COURSE CONTENT

#### Unit-I

The Multidisciplinary nature of environmental studies Natural Resources Renewable and non-renewable resources:

Natural resources and associated problems

10hours

a) Forest resources; b) Water resources; c) Mineral resources; d) Food resources; e) Energy resources; f) Land resources: Role of an individual in conservation of natural resources

#### Unit-II

Ecosystems

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Introduction, types, characteristic features, structure and function of the ecosystems: Forest ecosystem; Grassland ecosystem; Desert ecosystem; Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

10hours

#### Unit- III

Environmental Pollution: Air pollution; Water pollution; Soil pollution

10 hours

#### Recommended Books:

1. Y.K. Sing, Environmental Science, New Age International Pvt, Publishers, Bangalore
2. Agarwal, K.C. 2001 Environmental Biology, Nidi Publ. Ltd. Bikaner.
3. Bharucha Erach, The Biodiversity of India, Mapin Publishing Pvt. Ltd., Ahmedabad – 380 013, India,
4. Brunner R.C., 1989, Hazardous Waste Incineration, McGraw Hill Inc. 480p
5. Clark R.S., Marine Pollution, Clarendon Press Oxford
6. Cunningham, W.P. Cooper, T.H. Gorhani, E & Hepworth, M.T. 2001, Environmental Encyclopedia, Jaico Publ. House, Mumbai, 1196p
7. De A.K., Environmental Chemistry, Wiley Eastern Ltd.
8. Down of Earth, Centre for Science and Environment





Jagdamba Education Society's

## **S.N.D. COLLEGE OF PHARMACY**

At-Babhulgaon, Tal. Yeola, Dist. Nashik, Maharashtra-423401

Web side- [www.sndpharmacy.com](http://www.sndpharmacy.com)

Contact No- 02559-225041/42

**NACC Accredited with Grade "B"**



# **BACHELOR IN PHARMACY**

**PROJECT REPORT**

**Academic Year 2022-2023**



A  
Project Report on  
**"FORMULATION DEVELOPMENT,  
CHARACTERIZATION AND  
EVALUATION OF NIOSOMES"**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23


**BACHELOR OF PHARMACY**

*Submitted by:-*

**Mrs. Pagar Gaurav Ratan**  
*(Final year B. pharmacy)*

*Project Guide:-*

**Dr. Barde L. G.**  
*(M. Pharm., PhD)*

  
*(R.D. Ghogare)*  
*(29/05/2023)*

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide and genuine Project Report carried out by me under the guidance of Dr. LOKESH G. BARDE, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 27-5-2023*

*Place: Babhulgaon*

**Mr. Pagar Gaurav Ratan**  
(Final year B. pharmacy)

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide Project Report done by Mr.Pagar Gaurav Ratan in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:** 27-5-2023

**Place:** Babhulgaon,

**Dr. Barade L. G.**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401



**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Endorsement by the Principal**

*This is to certify that the Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide Project Report done by Mr.Pagar Gaurav Ratan in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

*Date: 27-5-2023*

*Place: Babhulgaon*



*Dr. R. S. Kalkatwar*

*M. Pharm, Ph.D.*

*Principal, SND College of Pharmacy,  
Yeola - 423 401*

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**

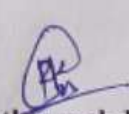


**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "STUDY THE SELF  
MEDICATION PRACTICE AND PATTERN OF OVER THE COUNTER  
DRUG USE AMONG THE PATIENT VISITING COMMUNITY  
HEALTHCARE FACILITIES: CROSS SECTIONAL OBSERVATIONAL  
STUDY" is a bonafide and genuine Project Report carried out by me under the  
guidance of Prof. Dr. Amol U. Gayke Associate Professor, Jagdamba Education  
Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 27/5/23*

*Place: Babhulgaon*

  
**Mr. Gore Prathamesh Khanderao**  
*(Final year B.pharmacy)*

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**

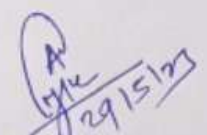


**Declaration by the Guide**

*This is to certify that the Project Report entitled "STUDY THE SELF  
MEDICATION PRACTICE AND PATTERN OF OVER THE COUNTER  
DRUG USE AMONG THE PATIENT VISITING COMMUNITY  
HEALTHCARE FACILITIES: CROSS SECTIONAL OBSERVATIONAL  
STUDY" a bonafide Project Report done by Mr.Gore Prathamesh  
Khanderao (Final year B.pharmacy) in partial fulfillment of the requirement for  
the Bachelor of Pharmacy.*

Date: 29/5/23

Place: Babhulgaon

  
29/5/23  
**Prof. Dr. Amol U. Gayke**  
Associate Professor,  
M. Pharm, PhD  
SND College of Pharmacy,  
Babhulgaon, Yeola.



Formulation and evaluation of herbal belly button oil

Jagdamba Education Society's

**S.N.D. College of Pharmacy**

Babhulgaon, Yeola-423401



**CERTIFICATE BY THE GUIDE**

This is to certify that the dissertation entitled "**FORMULATION AND EVALUATION OF HERBAL BELLY BUTTON OIL**" is a bonafide and genuine research work carried out by **Miss. Yogeshwari Nilkanth Gunjal** under my direct supervision, in partial fulfilment of the requirement for the degree of bachelor of Pharmacy at Savitribai Phule Pune University, Pune.

Date: 27/05/23

Place: Babhulgaon.

Prof. Dr. Amol U. Gayke

M. Pharm. Ph. D

SND College of Pharmacy Babhulgaon

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide and genuine Project Report Carried out by me under the guidance of, Assistant Professor M.S.Gangurde And Professor P.L.Nikam, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 24/05/23*

*Place: Babhulgaon*

**Miss. Payal Ramesh Khairmode**

*(Final year B.Pharmacy)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide Project Report done by Miss. Payal Ramesh Khairmode in partial fulfilment of the requirement for the Bachelor of Pharmacy.*

**Date:** 24/05/23

**Place:** Babhulgaon

24/05/2023  
**Mr. M. S. Gangurde**  
**AND**

**Mr. P L. Nikam**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401



A  
Project Report on  
**“FORMULATIN AND EVALUTION OF  
ONION SCRUB”**

is submitted to



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

Submitted by:-

**Miss. Khodke Sejal Rajendra**  
(Final year B.pharmacy)

Project Guide:-

**Prof. P. L. Nikam**  
(Assist professor)

*(R.D. Ghugane)*  
*29/05/2022*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**




**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF ONION SCRUB" is a bonafide and genuine Project Report carried out by me under the guidance of Prof. P. L. Nikam Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 23/05/2023*

*Place: Babhulgaon*

  
**Miss. Khodke Sejal Rajendra**  
*(Final year B.pharmacy)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF ONION SCRUB" is a bonafide Project Report done by Miss. Khodke Sejal Rajendra in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:** 23/05/2023

**Place:** Babhulgaon

23/05/2023

**Prof. P. L. Nikam**

Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401



*A Project Report on*  
**“FORMULATION & EVALUATION OF HERBAL  
ANTI-ACNE FACEWASH”**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by :-*

**Mr. KOKANE UDIT SUDHAKAR**

*(Final year B.pharmacy)*

*Project Guide:-*

**Prof. Nagare V. R.**

*(M. Pharm pharmaceutical.)*

*(R.D. Ghogase)*  
*29/05/2023*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION & EVALUATION OF HERBAL ANTI ACNE FACE WASH" is a bonafide and genuine Project Report carried out by me under the guidance of, Prof. Nagare V. R. Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 27/05/23*

*Place: Babhulgaon*

**Mr. KOKANE UDIT SUDHAKAR**  
*(Final year B .pharmacy)*

A  
Project Report on  
**" FORMULATION AND EVALUATION OF  
ANTI-AGING GEL "**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by:-*

**Mr. Niphade Rushikesh Sharad**  
(Final year B.pharmacy)

*Project Guide:-*

**Prof. P. L. NIKAM**  
(Associate Professor)

*(Ms. R. D. Ghogare)*  
*29/05/2023*



**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF POLYHERBAL ANTI-AGING GEL" is a bonafide and genuine Project Report carried out by me under the guidance of Proff.P.L.Nikam, Associate Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

**Date:** 23/05/2023

**Place:** Babhulgaon  
Yeola

**Mr. Niphade Rushikesh Sharad**  
(Final year B.pharmacy)

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF POLYHERBAL ANTI-AGING GEL" is a bonafide Project Report done by Mr. Niphade Rushikesh Sharad in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:** 23/05/2023

**Place:** Babhulgaon,  
Yeola

*Proff.P.L.Nikam  
Associate professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401*

JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA



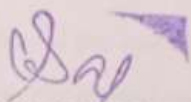
**Endorsement by the Principal**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF POLYHERBAL ANTI-AGING GEL" is a bonafide Project Report done by Mr . Niphade Rushikesh Sharad in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 23 / 05 / 2023

Place: Babhulgaon  
Yeola



  
**Dr. R. S. Kalkotwar**  
M. Pharm, Ph.D.  
Principal, SND College of  
Pharmacy,  
Yeola - 423 401



Formulation And Evaluation of Face Serum Using Rose Petals

**A**  
**PROJECT REPORT ON**  
**FORMULATION & EVALUATION OF FACE SERUM USING**  
**ROSE PETALS**

**Submitted to**



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by :-*

**Mr. Akshay Devidas Harpade**

(Final year B.pharmacy)

**Guided By:**

**Prof.Dr.A.U.GAYKE**

*U.V.*  
*29/05/2023.*  
*Ms. K.V. Dhamat.*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

---

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide and genuine Project Report Carried out by me under the guidance of Dr.Amol U. Gayke, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

**Date:** 24/05/23

**Place:** Babhulgaon

**Mr. Akshay Devidas Harpade**

*(Final year B.Pharmacy)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide Project Report done by Mr. Akshay Devidas Harpade in partial fulfilment of the requirement for the Bachelor of Pharmacy.*

**Date:** 24/5/2023

**Place:** Babhulgaon

*Dr. Amol U. Gayke*  
24/5/23

**Dr. Amol U. Gayke**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401



**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**




**Endorsement by the Principal**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide Project Report done by Mr. Akshay Devidas Harpade in partial fulfilment of the requirement for the Bachelor of Pharmacy.*

**Date:** 24/5/2023

**Place:** Babhulgaon



  
**Dr. R. S. Kalkotwar**  
M. Pharm, Ph.D.  
Principal, SND College of Pharmacy,  
Yeola - 423 401

A  
Project Report on  
**“FORMULATION AND EVALUATION  
OF HERBAL GARLIC PEELS  
HANDWASH”**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23


**BACHELOR OF PHARMACY**

*Submitted by:-*

**Miss. Kapadi Vijaya Dattatraya**  
*(Final year B.pharmacy)*

*Project Guide:-*

**Prof. P. L. Nikam**  
*(Assist professor)*

  
29/05/2023.  
(R.D. Ghogre)

Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF HERBAL GARLIC PEELS HANDWASH" is a bonafide and genuine Project Report carried out by me under the guidance of Prof. P. L. Nikam, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

Date: 27/05/2023

Place: Babhulgaon (Yeola)

Miss. Kapadi Vijaya Dattatraya  
(Final year B.pharmacy)



**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF HERBAL GARLIC PEELS HANDWASH" is a bonafide Project Report done by Miss. Kapadi Vijaya Dattatraya in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:** 27/05/2023

**Place:** Babhulgaon (Yeola)

23/05/2023

**Prof. P. L. Nikam G.**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Endorsement by the Principal**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF HERBAL GARLIC PEELS HANDWASH" is a bonafide Project Report done by Miss. Kapadi Vijaya Dattatraya in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 27/05/23

Place: Babhulgaon (Y)



*Dr. R/S. Kalkotwar*

M. Pharm, Ph.D.

Principal, SND College of Pharmacy,

Yeola - 423 401



Jagdamba Education Society's  
S.N.D. COLLEGE OF PHARMACY  
At-Babhulgaon, Tal. Yeola, Dist. Nashik, Maharashtra-423401  
Web side- [www.sndpharmacy.com](http://www.sndpharmacy.com)  
Contact No- 02559-225041/42

NACC Accredited with Grade "B"



# BACHELOR IN PHARMACY

FINAL YEAR B. PHARMACY STUDENTS

-PROJECT REPORT-

Year – 2022-2023



*FORMULATION & EVALUATION OF HERBAL GARLIC PEELHANDWASH*

*A*

*Project Report ON*

***FORMULATION & EVALUATION OF HERAL GARLIC PEEL  
HANDWASH***

*IS submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by :-*

**Mr.KAMODKAR SAGAR GOVIND**

*(Final year B.pharmacy)*

*Project Guide:-*

**Prof. P.L.NIKAM**

Assist.Prof

SND Collage of pharmacy ,Yeola.

JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled*  
**"FORMULATION & EVALUATION OF HERAL GARLIC PEEL  
HANDWASH**

*is a bonafide and genuine Project Report carried out by me under the guidance  
of Prof.P.L.NIKAM Assistant Professor, Jagdamba Education Society's SND  
College of Pharmacy, Babhulgaon, Yeola, Yeola.*

*Date: 26/05/2022*

*Place: yeola.*

*Kamodkar*

Mr. KAMODKAR SAGAR GOVIND

*(Final year B .pharmacy)*

JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA



**Declaration by the Guide**

*This is to certify that the Project Report entitled FORMULATION & FORMULATION & EVALUATION OF HERAL GARLIC PEEL HANDWASH is a bonafide Project Report done by Mr KAMODKAR SAGAR GOVIND (Final year B.pharmacy) in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:**

**Place:**

4/23/05/2023  
Prof. P. L. Nikam  
Assist. Prof

SND Collage of pharmacy  
, Yeola



"Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles."

**A**  
**PROJECT REPORT ON**

**"Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles."**

**Submitted to**



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by*

**Mr. JADHAV JAY SATISH**

*(Final year B.pharmacy)*

**Guided By**

**Miss. A. S. Punekar**

*(M. Pharm. QA)*

*MS. K.V. Dhamak.*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles."* is a bonafide and genuine Project Report carried out by me under the guidance of **Miss. A. S. Punekar** (*M. Pharm.QA*) Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.

*Date:* 24/05/2023

*Place:* Babhulgaon

**Mr. JADHAV JAY SATISH**  
(Final year B.pharmacy)

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**

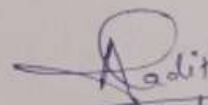


**Declaration by the Guide**

*This is to certify that the Project Report entitled "Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles." is a bonafide Project Report done by Mr. JADHAV JAY SATISH (Final year B.pharmacy) in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 24/05/23

Place: Babhulgaon.

  
24/05/23  
Miss. A. S. Punekar  
(M. Pharm. QA)



**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**




**Endorsement by the Principal**

*This is to certify that the Project Report "Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles." is a bonafide Project Report done by Mr. JADHAV JAY SATISH in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 20/5/23

Place:



  
Dr. R. S. Kalkotwar  
M. Pharm, Ph.D.  
Principal, SND College of Pharmacy,  
Yeola - 423 401

A  
Project Report on  
**"FORMULATION DEVELOPMENT,  
CHARACTERIZATION AND  
EVALUATION OF NIOSOMES"**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by:-*

**Mrs.Pagar Vishal Bhaulal**  
*(Final year B.pharmacy)*

*Project Guide:-*

**Dr. Barde L. G.**  
*(M. Pharm., PhD)*

Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide and genuine Project Report carried out by me under the guidance of Dr. LOKESH G. BARDE, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 27/05/2023*

*Place: Babhulgaon.*

**Mr. Pagar Vishal Bhaulal**  
*(Final year B.pharmacy)*



Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide Project Report done by Mr.Pagar Vishal Bhaulal in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

*Date: 27/05/2023*

*Place: Babhulgau.*

**Dr. Barade L. G.**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401

Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola



**Endorsement by the Principal**

*This is to certify that the Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide Project Report done by Mr.Pagar Vishal Bhaulal in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 27/05/2023

Place: Babhulgau



*Dr. R/S. Kalkotwar*

M. Pharm, Ph.D.

Principal, SND College of Pharmacy,

Yeola - 423 401

**A  
PROJECT REPORT ON  
FORMULATION AND EVALUATION OF ANTI-  
AGING GEL**

Submitted to



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by :-*  
**Mr. GAWAND RUSHIKESH PANDIT**  
(Final year B.pharmacy)

Guided By:  
**Prof. P.L.NIKAM**

*[Signature]*  
29/08/2023  
Ms. K.V. Dharmak.



JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA



## Declaration by the Candidate

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF POLYHERBAL ANTI-AGING GEL" is a bonafide and genuine Project Report carried out by me under the guidance of Proff.P.L.Nikam, Associate Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 29/05/2023*

*Place: Babhulgaon,  
Yeola*

*H. Gawand*

Mr. GAWAND RUSHIKESH PANDIT  
(Final year B.pharmacy)

JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA



## Declaration by the Guide

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF POLYHERBAL ANTI-AGING GEL" is a bonafide Project Report done by Mr. GAWAND RUSHIKESH PANDIT in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:** Babhulgaon 29/05/2023

**Place:** Babhulgaon,  
Yeola

*29/05/23*  
Proff. P.L. Nikam  
Associate professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401

JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA



Endorsement by the Principal

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF POLYHERBAL ANTI-AGING GEL" is a bonafide Project Report done by Mr. GAWAND RUSHIKESH PANDIT in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 29/05/2023

Place: Babhulgaon,  
Yeola



*[Signature]*  
**Dr. R. S. Kalkotwar**  
M. Pharm, Ph.D.  
Principal, SND College of  
Pharmacy,  
Yeola - 423 401



*A*  
*Project Report on*  
**“ALLIUM SATIVUM: A SYSTEMIC AND  
COMPREHENSIVE REVIEW”**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by:-*  
**Miss. Khodke Sejal Rajendra**  
*(Final year B.pharmacy)*

*Project Guide:-*  
**Mr. Gangurde M. S.**  
*(M. Pharm)*

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "ALLIUM SATIVUM: A SYSTEMIC AND COMPREHENSIVE REVIEW" is a bonafide and genuine Project Report carried out by me under the guidance of Mr. GANGURDE M. S., Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 2/12/2022*

*Place: Babhulgaon*

*Sejal*

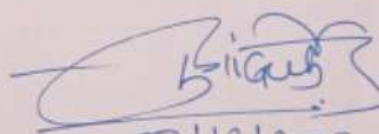
**Miss. Khodke Sejal Rajendra**  
*(Final year B.pharmacy)*

**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "ALLIUM SATIVUM: A SYSTEMIC AND COMPREHENSIVE REVIEW" is a bonafide Project Report done by Miss. Khodke Sejal Rajendra in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

  
02/12/2022

**Date:** 2/12/2022

**Place:** Babhulgaon

**Mr. Gangurde M. S.**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401



**Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola**



**Endorsement by the Principal**

*This is to certify that the Project Report entitled "ALLIUM SATIVUM: A SYSTEMIC AND COMPREHENSIVE REVIEW" is a bonafide Project Report done by Miss. Khodke Sejal Rajendra in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

*Date: 2/12/2022*

*Place: Babhulgaon*

**Dr. R. S. Kalkotwar**

M. Pharm, Ph.D.

Principal, SND College of Pharmacy,  
Yeola - 423 401

*[Signature]*  
Principal  
S. N. D. College of Pharmacy  
Babhulgaon, Tal. Yeola (Nasik)

*A*  
*Project Report on*  
**“PHARMACY PRACTICE TRAINING  
REPORT”**

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by:-*  
**Miss. Kapadi Vijaya Dattatraya**  
*(Final year B.pharmacy)*

*Project Guide:-*  
**Mr. Gangurde M. S.**  
*(M. Pharm)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "PHARMACY PRACTICE TRAINING REPORT" is a bonafide and genuine Project Report carried out by me under the guidance of Mr. Gangurde M. S, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 2/11/22*

*Place: Babhulgaon (yeola)*

*Kapadi*

**Miss. Kapadi Vijaya Dattatraya**  
*(Final year B.pharmacy)*



**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "PHARMACY PRACTICE TRAINING REPORT" is a bonafide Project Report done by Miss. Kapadi Vijaya Dattatraya in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:** 2/11/22

**Place:** Babhulgaon (Yeola)

**Mr. Gangurde M. S**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**

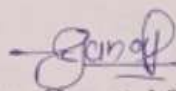


**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "Hospital Training" is a bonafide and genuine Project Report carried out by me under the guidance of Miss.S.A.Waghmare Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date:*

*Place:*

  
**Miss. Gayatri Sopan Sanap**  
*(Final year B.pharmacy)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**




**Declaration by the Guide**

*This is to certify that the Project Report entitled "Hospital Training" is a bonafide Project Report done by Miss. Gayatri Sopan Sanap in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

**Date:**

**Place:**

  
**Miss. S.A. Waghmare**

Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401



Formulation and Evaluation of Herbal Hair Mask

**A**  
**PROJECT REPORT ON**  
**Formulation and Evaluation of Herbal Hair Mask**

Submitted to



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by :-*  
**Miss. Tejal Chandrahar Kadam**

(Final year B.pharmacy)

Guided By:  
**Mrs. Sharma K.S.**

*(M.Pharm., Pharmacognosy Dept)*

*Miss*  
*29/05/2023*  
*Mrs. E.V. DhamaK*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

I hereby declare that this Project Report entitled "**Formulation and Evaluation of Herbal Hair Mask**" is a bonafide and genuine Project Report carried out by me under the guidance of **Mrs. Sharma K.S. (M.Pharm., Pharmacognosy Dept)** Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.

Date: 19/5/2023

Place: Babhulgaon

*Kadam*

**Miss. Tejal Chandrarhar  
Kadam**

*(Final year B.pharmacy)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

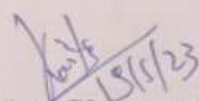
*This is to certify that the Project Report entitled*

**“Formulation and Evaluation of Herbal Hair Mask”**

*is a bonafide Project Report done by Miss. Tejal Chandrahar Kadam  
(Final year B.pharmacy) in partial fulfillment of the requirement for the  
Bachelor of Pharmacy.*

Date: 19/5/23

Place: Babhulgaon.

  
Mrs. Sharma K.S.

(M.Pharm., Pharmacognosy  
Dept)



A  
Project Report on  
"FORMULATION DEVELOPMENT,  
CHARACTERIZATION AND  
EVALUATION OF NIOSOMES"

*is submitted to*



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by:-*

**Miss.Pagar Sakshi Rajendra**  
*(Final year B.pharmacy)*

*Project Guide:-*

**Dr. Barde L. G.**  
*(M. Pharm., PhD)*

*R.D. Grogane*  
*29/05/2023*

Jagdamba Education Society's  
SND College of Pharmacy,  
Babhulgaon, Yeola

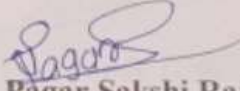


**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION DEVELOPMENT, CHARACTERIZATION AND EVALUATION OF NIOSOMES" is a bonafide and genuine Project Report carried out by me under the guidance of Dr. LOKESH G. BARDE, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

*Date: 27/05/2023*

*Place: Babhulgaon*

  
Miss. Pagar Sakshi Rajendra  
(Final year B.pharmacy)

"Formulation & Evaluation of Peel-Off Face Mask Gel Containing Ficus Religiosa ZnO Nanoparticles."

**A**  
**PROJECT REPORT ON**

**"Formulation & Evaluation of Peel-Off Face Mask Gel Containing Ficus Religiosa ZnO Nanoparticles."**

**Submitted to**



Jagdamba Education Society's  
SND College of Pharmacy  
Babhulgaon, Yeola, Dist. Nashik - 423 401  
Academic Year- 2022-23

**BACHELOR OF PHARMACY**

*Submitted by*

**Mr. JADHAV AVINASH BHATURAM**

*(Final year B.pharmacy)*

**Guided By**

**Miss. A. S. Punekar**

*(M. Pharm. QA)*

*M.S.*  
*29/05/2023*  
*Mrs. K.V. Dharmak*



**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**

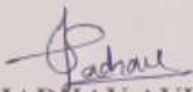


**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles."* is a bonafide and genuine Project Report carried out by me under the guidance of **Miss. A. S. Punekar** (M. Pharm. QA) Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.

Date: 24/05/2023

Place: Babhulgaon

  
Mr. JADHAV AVINASH BHATURAM  
(Final year B.pharmacy)

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles." is a bonafide Project Report done by Mr. JADHAV AVINASH BHATURAM (Final year B.pharmacy) in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 24/05/23

Place: Babhulgaon.

*Aaditi*  
24/05/23

Miss. A. S. Punekar

(M. Pharm.QA)

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**

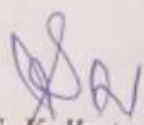


**Endorsement by the Principal**

*This is to certify that the Project Report "Formulation & Evaluation of Peel-Off Face Mask Gel Containing *Ficus Religiosa* ZnO Nanoparticles." is a bonafide Project Report done by Mr. JADHAV AVINASH BHATURAM in partial fulfillment of the requirement for the Bachelor of Pharmacy.*

Date: 26/9/23  
Place: Babhulgaon



  
Dr. R. S. Kalkotwar  
M. Pharm, Ph.D.  
Principal, SND College of Pharmacy,  
Yeola - 423 401



**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Candidate**

*I hereby declare that this Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide and genuine Project Report Carried out by me under the guidance of Dr. Amol U. Gayke, Assistant Professor, Jagdamba Education Society's SND College of Pharmacy, Babhulgaon, Yeola.*

**Date:** 24/05/23.

**Place:** Babhulgaon

**Mr. Akshay Devidas Harpade**

*(Final year B.Pharmacy)*

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



**Declaration by the Guide**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide Project Report done by Mr. Akshay Devidas Harpade in partial fulfilment of the requirement for the Bachelor of Pharmacy.*

Date: 24/11/23

Place: Babhulgaon

**Dr. Amol U. Gayke**  
Assistant Professor,  
SND College of Pharmacy,  
Babhulgaon, Yeola - 423 401

Formulation And Evaluation of Face Serum Using Rose Petals

**JAGDAMBA EDUCATION SOCIETY'S  
SND COLLEGE OF PHARMACY,  
BABHULGAON, YEOLA**



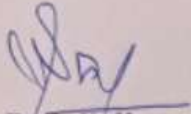
**Endorsement by the Principal**

*This is to certify that the Project Report entitled "FORMULATION AND EVALUATION OF FACE SERUM" is a bonafide Project Report done by Mr. Akshay Devidas Harpade in partial fulfilment of the requirement for the Bachelor of Pharmacy.*

Date: 24/5/23

Place: Babhulgaon



  
**Dr. R. S. Kalkotwar**  
M. Pharm, Ph.D.  
Principal, SND College of Pharmacy,  
Yeola - 423 401