



*Criterion No.1.3.2 Percentage of students undertaking Project work/
Field work/ Internships (Data for the latest completed academic year)*

INDEX			
SR. NO	PARTICULARS	REPORTS OF THE PROJECT/FIELD VISITS/INTERNSHIPS	NUMBER OF STUDENTS
<u>PROJECT WORK</u>			
1)	Second Year M. Pharm Research Project/Thesis	View Documents	65
2)	Final Year B. Pharm Project Work	View Documents	122
3)	Fifth Year Pharm-D Research Project Work	View Documents	37
4)	Third Year B. Pharm Industrial Training	View Documents	112
<u>FIELD WORK / INTERNSHIP</u>			
5)	Sixth Year Pharm-D Internship Work	View Documents	36
6)	Second, Third ,Fourth, Sixth Year Pharm. D Polio Camp Field Work	View Documents	96
7)	Third Year B. Pharm Field Visit	View Documents	30
Total Number of Students Undertaking Project Work/ Field Work/Internships			497
Total Number of Students in A.Y 2023-24			783
Total Percentage of Students Undertaking Project Work/ Field Work/Internships			63.47%



Second year M Pharm Research Project / Thesis

**"TO STUDY THE CARDIOPROTECTIVE EFFECT OF
ETHANOLIC EXTRACT OF *WITHANIA COAGULANCE*
FRUIT ON HIGH FRUCTOSE INDUCED METABOLIC
SYNDROME IN EXPERIMENTAL ANIMALS."**

Thesis submitted to

**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE.**



By

MISS. MOHINI BIHARAT JADHAV

(B. Pharm)

In partial fulfillment, of

The requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACOLOGY

UNDER THE GUIDANCE OF

DR. D. D. BANDAWANE

(Head of Department)

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44.**

(2023-24)



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Mohini Bharat Jadhav declare that the thesis entitled, "To study the cardioprotective effect of ethanolic extract of *Withania congulance* fruit on high fructose induced metabolic syndrome in experimental animals." submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. D. D. Bandawane and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Ms. Mohini. B. Jadhav

Place: Nigdi, Pune



**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)**

Dr. D. D. Bandawane
HOD and Professor,
Department of Pharmacology
P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “To study the cardioprotective effect of ethanolic extract of *Withania coagulans* fruit on high fructose induced metabolic syndrome in experimental animals.” submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Miss. Mohini Bharat Jadhav** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune-44

Dr. D.D. Bandawane

Research guide

HOD & Professor

Department of Pharmacology



MODERN COLLEGE OF PHARMACY NIGDI PUNE-44

(ACCREDITED BY NAAC)

Dr. D. D. Bandawane
HOD and Professor,
Department of Pharmacology
P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled "To study the cardioprotective effect of ethanolic extract of *Withania coagulance* fruit on high fructose induced metabolic syndrome in experimental animals," submitted for the degree of Master of Pharmacy, is the record of research work carried out by Miss. Mohini Bharat Jadhav under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune-44

Dr. D D. Bandawane

HOD & Professor

Department of Pharmacology



MODERN COLLEGE OF PHARMACY NIGDI PUNE-44

(ACCREDITED BY NAAC)

Dr. P. D.
Chaudhari
Principal,
P.E.S. Modern College of
Pharmacy, Yamunanagar, Nigdi,
Pune - 44.
Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles "To study the cardioprotective effect of ethanolic extract of *Withania coagulans* fruit on high fructose induced metabolic syndrome in experimental animals," submitted for the degree of Master of Pharmacy, is the record of research work carried out by Miss. Mohini Bharat Jadhav under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 16/08/2024

Place: Nigdi, Pune-44



Dr. P. D. Chaudhari,
Principal

**“EVALUATION OF ANTIARTHRITIC ACTIVITY
OF ETHANOLIC EXTRACT OF *MURRAYA
KOENIGII* BARK BY USING FCA INDUCED
ARTHRITIS IN EXPERIMENTAL ANIMALS”**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
MISS. FIZA VAHED SHAIKH
(B. Pharm)
In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACOLOGY**

**UNDER THE GUIDANCE OF
DR. S.S. NIPATE**
(M. Pharm, Ph.D.)
(Professor)

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44.
(2023-24)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Fiza Vahed Shaikh declare that the thesis entitled, "Evaluation of antiarthritic activity of ethanolic extract of *Murraya koenigii* bark by using FCA induced arthritis in experimental animals" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. S. S. Nipate and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24

Place: Nigdi, Pune

A handwritten signature in black ink, appearing to read 'fiza'.

Miss. Fiza V. Shaikh




**MODERN COLLEGE OF
PHARMACY NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. S.S.Nipate
Professor,
Department Of Pharmacology
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis "**Evaluation of antiarthritic activity of ethanolic extract of *Murraya koenigii* bark by using FCA induced arthritis in experimental animals**" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. **Fiza Vahed Shaikh** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24
Place: Nigdi, Pune


Dr. S. S. Nipate
Research Guide




**MODERN COLLEGE OF
PHARMACY NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. D. D. Bandawane
HOD and Professor,
Department of Pharmacology
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, “**Evaluation of antiarthritic activity of ethanolic extract of *Murraya koenigii* bark by using FCA induced arthritis in experimental animals**” submitted for the degree of Master of Pharmacy (Pharmacology), is the record of research work carried out by **Miss. Fiza Vahed Shaikh** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24
Place: Nigdi, Pune.


Dr. D. D. Bandawane
HOD & Professor
Dep. of Pharmacology



**MODERN COLLEGE OF
PHARMACY NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari

Principal,

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune - 44.

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, "**Evaluation of antiarthritic activity of ethanolic extract of *Murraya koenigii* bark by using FCA induced arthritis in experimental animals**" is a record of bonafide research work carried out by Miss. **Fiza Vahed Shaikh** under the guidance of Dr. S. S. Nipate at Modern College of Pharmacy, Nigdi, Pune - 411044.



Date:

Place: Nigdi, Pune

Dr. P. D. Chaudhari
Principal



**"THERAPEUTIC EFFECT OF *MACROTYLOMA*
UNIFLORUM VERDC SEEDS EXTRACT IN LETROZOLE
INDUCED POLYCYSTIC OVARY SYNDROME RATS"**

Thesis submitted to
**THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE
UNIVERSITY, PUNE**



By
MISS. HARSHALI DURGADAS DISHWARE

(B. Pharm)
In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACOLOGY**

**UNDER THE GUIDENCE OF
DR. SONALI S. NIPATE
(M. Pharm)
Professor (Dept. of Pharmacology)
DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44. (2022-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE
UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Harshali D. Dishware declare that the thesis entitled, "Therapeutic Effect of *Macrotyloma Uniflorum* Verde Seeds Extract in Letrozole Induced Polycystic Ovary Syndrome Rats" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Sonali S. Nipate and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune


Miss. Harshali D. Dishware



MODERN COLLEGE OF PHARMACY NIGDI,
PUNE - 44.

(ACCREDITED BY NAAC)

Dr. Sonali S. Nipate

Professor, (Pharmacology)

P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, “Therapeutic Effect of *Macrotyloma Uniflorum* Verde Seeds Extract in Letrozole Induced Polycystic Ovary Syndrome Rats” submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Harshali D. Dishware** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune

Dr. Sonali S. Nipate

Research Guide



MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)

Dr. D. D. Bandawane

Professor and HOD,

Department of Pharmacology

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "Therapeutic Effect of *Macrotyloma Uniflorum* Verde Seeds Extract in Letrozole Induced Polycystic Ovary Syndrome Rats" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. Harshali D. Dishware under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune

Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology



**MODERN COLLEGE OF PHARMACY NIGDI,
PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari

Principal,

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune - 44.

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, "*Therapeutic Effect of Macrotyloma Uniflorum Verde Seeds Extract in Letrozole Induced Polycystic Ovary Syndrome Rats*" is a record of bonafide research work carried out by Miss. Harshali D. Dishware under the guidance of Dr. Sonali S. Nipate at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 16/08/2024

Place: Nigdi, Pune



Dr. P. D. Chaudhari

Principal

**"EVALUATION OF ANTI UROLITHIATIC ACTIVITY
OF LIPOSOMES OF *WITHANIA SOMNIFERA* ROOT IN
ETHYLENE GLYCOL INDUCED UROLITHIASIS IN
EXPERIMENTAL RATS"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
MISS. PRAJAKTA BAJRANG JAGTAP

(B. Pharm)
In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACOLOGY**

**UNDER THE GUIDENCE OF
DR. SONALI S. NIPATE
(M. Pharm)
Professor (Dept. of Pharmacology)
DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44.
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE
UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Prajakta B. Jagtap declare that the thesis entitled,
“Evaluation Of Anti Urolithiatic Activity Of Liposomes Of
Withania somnifera roots In Ethylene Glycol Induced
Urolithiasis In Experimental Rats” submitted by me for the
degree of Master of Pharmacy is the record of work carried out
by me under the guidance of Dr. Sonali S. Nipate and has not
formed the basis for the award of any degree or diploma or
other titles in this or any other university.

Date: 16/08/24

Place: Nigdi, Pune



Miss. . Prajakta B. Jagtap



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. Sonali S. Nipate

Professor,

(Pharmacology)

P.E.S. Modern College of
Pharmacy, Yamunanagar, Nigdi,
Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Withania somnifera* roots In Ethylene Glycol Induced Urolithiasis In Experimental Rats" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. **Prajakta B. Jagtap** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24
Place: Nigdi, Pune

Dr. Sonali S. Nipate
Research Guide




MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)

Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, **“Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Withania somnifera* roots In Ethylene Glycol Induced Urolithiasis In Experimental Rats”** submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. **Prajakta B. Jagtap** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date: 18/09/24
Place: Nigdi, Pune


Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari

Principal,

P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, "Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Withania somnifera* roots In Ethylene Glycol Induced Urolithiasis In Experimental Rats" is a record of bonafide research work carried out by Miss. **Prajakta B. Jagtap** under the guidance of Dr. Sonali S. Nipate at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 16/08/24

Place: Nigdi, Pune



Dr. P. D. Chaudhari

Principal



“ EVALUATION OF NEUROPROTECTIVE EFFECT OF ARBUTIN IN 3-NITRO PROPIONIC ACID-INDUCED HUNTINGTON’S DISEASE IN EXPERIMENTAL ANIMALS”

Thesis submitted to



By

MISS. MADHURI ASHOK GANGURDE

(B. Pharm)

In partial fulfilment, of

The requirements for the degree of

MASTER OF PHARMACY IN PHARMACOLOGY

**UNDER THE GUIDANCE
OF**

DR. D. D. BANDAWANE

(Head of Department)

**DEPARTMENT OF
PHARMACOLOGY**

CO-GUIDE

Dr.P.S. KORE

(Associate Professor)

Department of Pharmacology

**PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE – 44**

(2022-23).



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Miss. Madhuri Ashok Gangurde declare that the thesis entitled, "**Evaluation of Neuroprotective effect of Arbutin in 3-Nitropropionic acid-induced Huntington's disease in Experimental Animals**" submitted by me for degree of **Master of Pharmacy** is the record of work carried out by me under the guidance of **Dr. D. D. Bandawane** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune

Ms. Madhuri A. Gangurde



MODERN COLLEGE OF PHARMACY
NIGDI, PUNE- 44.

(ACCREDITED BY NAAC)

Dr. D. D. Bandawane

HOD and Professor,

Department of Pharmacology

P. E. S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, “**Evaluation of Neuroprotective effect of Arbutin in 3-Nitropropionic acid-induced Huntington’s disease in Experimental Animals**” submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Miss. Madhuri Ashok Gangurde** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university

Date: 16/08/2024

Dr. D.D. Bandawane

Place: Nigdi, Pune

Research Guide



MODERN COLLEGE OF PHARMACY NIGDI,
PUNE - 44.

(ACCREDITED BY NAAC)

Dr. P.S. Kore

Associate professor,

Department of Pharmacology

P. E. S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE CO-GUIDE

This is to certify that the thesis entitled, “**Evaluation of Neuroprotective effect of Arbutin in 3-Nitropropionic acid-induced Huntington’s disease in Experimental Animals**” submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Miss. Madhuri Ashok Gangurde** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university

Date: 16/08/2024

Place: Nigdi, Pune

Dr. P.S. Kore

Research Co-Guide



MODERN COLLEGE OF PHARMACY
NIGDI, PUNE- 44.

(ACCREDITED BY NAAC)

Dr. D. D. Bandawane

HOD and Professor,

Department of Pharmacology

P. E. S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, “**Evaluation of Neuroprotective effect of Arbutin in 3-Nitropropionic acid-induced Huntington’s disease in Experimental Animals**” submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Miss. Madhuri Ashok Gangurde** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university

Dr. D.D. Bandawane

HOD and Professor

Dept. of Pharmacology

Date: 16/08/2024

Place: Nigdi, Pune



MODERN COLLEGE OF PHARMACY NIGDI,
PUNE - 44.

(ACCREDITED BY NAAC)

Dr. P. D. Chaudhari

Principal,

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune - 44.

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitled, “**Evaluation of Neuroprotective effect of Arbutin in 3-Nitropropionic acid-induced Huntington’s disease in Experimental Animals**” is a record of bonafide research work carried out by **Miss. Madhuri Ashok Gangurde** under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune-411044.

Date: 16/08/2024

Place: Nigdi,



Dr. P. D. Chaudhari

Principal



**"STUDY THE EFFECT OF ELECTRIC
STIMULATION IN WOUND HEALING
ACTIVITY USING HYDROGEL CONTAINING
BECAPLERMIN AND SERRATIOPEPTIDASE"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
MR. PATIL ANIMESH RAMKRUSHNA
(B. Pharm)

In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACOLOGY**

**UNDER THE GUIDENCE OF
DR. SONALI S. NIPATE**
(M. Pharm, Ph.D.)
Professor (Dept. of Pharmacology)

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44,
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE
UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY




DECLARATION

I, **Mr. Animesh Ramkrushna Patil** declare that the thesis entitled, "Study the effect of electric stimulation in wound healing activity using hydrogel containing becaplermin and serratiopeptidase" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Sonali S. Nipate** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/06/24

Place: Nigdi, Pune


Mr. Animesh R. Patil



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. Sonali S. Nipate
Professor,
(Pharmacology)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "**Study the effect of electric stimulation in wound healing activity using hydrogel containing becaplermin and serratiopeptidase**" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Mr. Animesh R. Patil** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24
Place: Nigdi, Pune

Dr. Sonali S. Nipate
Research Guide




**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. D.D. Bandawane
Professor and HOD,
Department of Pharmacology
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "Study the effect of electric stimulation in wound healing activity using hydrogel containing becaplermin and serratiopeptidase" submitted for degree of Master of Pharmacy, is the record of research work carried out by Mr. Animesh R. Patil under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24
Place: Nigdi, Pune


Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari

Principal,

P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

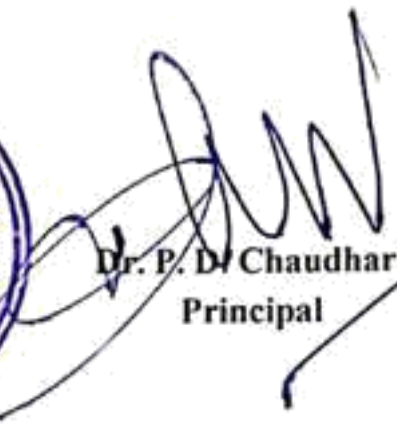
Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, "Study the effect of electric stimulation in wound healing activity using hydrogel containing becaplermin and serratiopeptidase" is a record of bonafide research work carried out by Mr. Animesh R. Patil under the guidance of Dr. Sonali. S. Nipate at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 16/05/24
Place: Nigdi, Pune




Dr. P. D. Chaudhari
Principal

**"STUDY THE EFFECT OF ETHYL ACETATE EXTRACT OF
DREGEA VOLUBILIS LEAVES ON HIGH FRUCTOSE DIET
INDUCED INSULIN RESISTANCE ON EXPERIMENTAL
ANIMAL"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
MISS. ARPITA VITTHAL YALSANGI
(B. Pharm)

In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACOLOGY**

**UNDER THE GUIDENCE OF
DR. D. D. BANDAWANE**
(Head of Department)

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE, OF PHARMACY
NIGDI, PUNE - 44.
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Arpita Vitthal Yalsangi declare that the thesis entitled, "Study The Effect Of Ethyl Acetate Extract Of *Dregea volubilis* Leaves on High Fructose Diet Induced Insulin Resistance on Experimental Animal" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. D. D. Bandawane** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 02/08/2024

Place: Nigdi, Pune

A.V. Yalsangi

Miss. Arpita V. Yalsangi



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. D. D. Bandawane
Professor,
(Pharmacology)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Study The Effect Of Ethyl Acetate Extract Of *Dregea volubilis* Leaves on High Fructose Diet Induced Insulin Resistance on Experimental Animal" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. Arpita Vitthal Yalsangi under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 02/08/2024
Place: Nigdi, Pune


Dr. D. D. Bandawane
Research Guide



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**


Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology
P.E.S. Modern College of Pharmacy,
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CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "Study The Effect Of Ethyl Acetate Extract Of *Dregea volubilis* Leaves on High Fructose Diet Induced Insulin Resistance on Experimental Animal" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. Arpita Vitthal Yalsangi under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date: 02/08/2024

Place: Nigdi, Pune


Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari
Principal,
P.E.S. Modern College of Pharmacy,
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Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles "Study The Effect Of Ethyl Acetate Extract Of *Dregea volubilis* Leaves on High Fructose Diet Induced Insulin Resistance on Experimental Animal" is a record of bonafide research work carried out by Miss. Arpita Vitthal Yalsangi under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 02/08/2024

Place: Nigdi, Pune



P. D. Chaudhari
Principal



**"STUDY THE RENOPROTECTIVE EFFECT OF
CALLISTEMON CITRINUS LEAVES ETHANOLIC
EXTRACT ON FRUCTOSE INDUCED METABOLIC
SYNDROME IN EXPERIMENTAL ANIMALS"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By

MISS. GADHAVE TRUPTI BHAUSAHEB

(B. Pharm)

In partial fulfillment, of
The requirements for the degree of

**MASTER OF PHARMACY
IN
PHARMACOLOGY**

UNDER THE GUIDENCE OF

DR. D. D. BANDAWANE

(Head of Department)

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE, OF PHARMACY
NIGDI, PUNE - 44.
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. **GADHAVE TRUPTI BHAUSAHEB** declare that the thesis entitled, "*study the renoprotective effect of callistemon citrinus leaves ethanolic extract on fructose induced metabolic syndrome in experimental animal*" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. D. D. Bandawane** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Miss. Trupti B. Gadhave

Date: 2/08/2024

Place: Nigdi, Pune



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. D. D. Bandawane
Professor,
(Pharmacology)
P.E.S. Modern College of
Pharmacy, Yamunanagar, Nigdi,
Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "*Study the renoprotective effect of callistemon citrinus leaves ethanolic extract on fructose induced metabolic syndrome in experimental animal*" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Trupti Bhausaheb Gadhave** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 21/08/2024
Place: Nigdi, Pune


Dr. D. D. Bandawane
Research Guide




**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
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Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "*Study the renoprotective effect of callistemon citrinus leaves ethanolic extract on fructose induced metabolic syndrome in experimental animal*" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Trupti Bhausaheb Gadhave** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date: 02/08/2024
Place: Nigdi, Pune


Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology



**MODERN COLLEGE OF PHARMACY
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Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles "*Study the renoprotective effect of callistemon citrinus leaves ethanolic extract on fructose induced metabolic syndrome in experimental animal*" is a record of bonafide research work carried out by Miss. Trupti Bhausaheb Gadhave under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 02/08/2022

Place: Nigdi, Pune



Dr. P. D. Chaudhari

Principal



"STUDY THE EFFECT OF ETHANOLIC EXTRACT OF *FICUS RACEMOSA* LEAVES ON HIGH FRUCTOSE DIET INDUCED INSULIN RESISTANCE ON EXPERIMENTAL ANIMALS"

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By

**MISS. RASIKA PRAKASH BABHULKAR
(B. Pharm)**

In partial fulfillment, of
The requirements for the degree of
MASTER OF PHARMACY IN PHARMACOLOGY

**UNDER THE GUIDENCE OF
DR. D. D. BANDAWANE
(Head of Department)**

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE, OF PHARMACY
NIGDI, PUNE - 44.
(2023-24)**



(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE
PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss Rasika Prakash Babhulkar declare that the thesis entitled, "Study the effect of ethanolic extract of *Ficus racemosa* leaves on high fructose diet induced resistance on experimental animals" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. D. D. Bandawane and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune

Miss. Rasika P. Babhulkar




**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. D. D. Bandawane
Professor, (Pharmacology)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Study the effect of ethanolic extract of *Ficus racemosa* leaves on high fructose diet induced resistance on experimental animals" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Rasika Prakash Babhulkar** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024
Place: Nigdi, Pune


Dr. D. D. Bandawane
Research Guide
HOD and Professor
Dept. of Pharmacology



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
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Dr. D. D. Bandawane
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CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, “Study the effect of ethanolic extract of *Ficus racemosa* leaves on high fructose diet induced resistance on experimental animals” submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Rasika Prakash Babhulkar** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune

Dr. D. D. Bandawane

Professor and HOD,

Department of Pharmacology



**MODERN COLLEGE OF PHARMACY NIGDI,
PUNE-44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari

Principal,

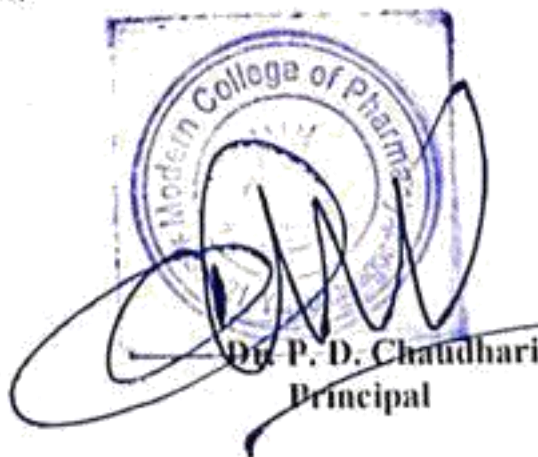
P.E.S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune
- 44.

Ex-Dean, Faculty of Pharmaceutical Sciences, Savitribai Phule
Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles "Study the effect of ethanolic extract of *Ficus racemosa* leaves on high fructose diet induced resistance on experimental animals" is a record of bonafide research work carried out by Miss. Rasika Prakash Babhulkar under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 16/08/2024
Place: Nigdi, Pune


Dr. P. D. Chaudhari
Principal



**“EVALUATING EFFECT OF HYDROALCOHOLIC EXTRACT
OF *CYMBOPOGON CITRATUS* LEAVES ON METHIONINE
CHOLINE DIET INDUCED LIVER STEATOSIS IN
EXPERIMENTAL ANIMALS”**

Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE



By

MISS. PALLAVI SUDHAKAR HAKE

(B. Pharm)

In partial fulfillment, of

The requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACOLOGY

UNDER THE GUIDANCE OF

DR. D. D. BANDAWANE

(Head of Department)

DEPARTMENT OF PHARMACOLOGY

PROGRESSIVE EDUCATION SOCIETY'S

MODERN COLLEGE OF PHARMACY, NIGDI,

PUNE - 44,

(2023-24)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Pallavi Sudhakar Hake declares that the thesis entitled, "Evaluating Effect of Hydroalcoholic Extract of *Cymbopogon citratus* Leaves on Methionine choline Diet Induced Liver Steatosis in Experimental Animals" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. D. D. Bandawane and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 2/08/2024


Ms. Pallavi S. Hake

Place: Nigdi, Pune



MODERN COLLEGE OF PHARMACY NIGDI PUNE-44

(ACCREDITED BY NAAC)

Dr. D. D. Bandawane
HOD and Professor,
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P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "Evaluating effect of *Cymbopogon citratus*. Extract on MCD diet induced liver steatosis in Experimental animals" submitted for the degree of Master of Pharmacy, is the record of research work carried out by Miss. Pallavi Sudhakar Hake under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 21/08/2024

Place: Nigdi, Pune-44

Dr. D D. Bandawane

Research guide

HOD & Professor

Department of Pharmacology



MODERN COLLEGE OF PHARMACY

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(ACCREDITED BYNAAC)

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CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Evaluating Effect of Hydroalcoholic Extract of *Cymbopogon citratus* Leaves on Methionine choline Diet Induced Liver Steatosis in Experimental Animals" submitted for the degree of Master of Pharmacy (Pharmacology), is the record of research work carried out by Miss. Pallavi Sudhakar Hake under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 2/08/2024

Place: Nigdi, Pune-44

Dr. D D. Bandawane

Research guide

HOD & Professor

Department of Pharmacology



MODERN COLLEGE OF PHARMACY

NIGDI PUNE-44

(ACCREDITED BY NAAC)

Dr. P. D.
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Pune - 44.
Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, "Evaluating Effect of Hydroalcoholic Extract of *Cymbopogon citratus* Leaves on Methionine choline Diet Induced Liver Steatosis in Experimental Animals" is a record of bonafide research work carried out by Ms. Pallavi Sudhakar Hake under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune-411044.

Date: 21/08/2024

Place: Nigdi, Pune-44



[Handwritten Signature]

Dr. P.D. Chaudhari,

Principal

**“Evaluating effect of *Benincasa hispida* (thunb) Cong.
Extract on MCD diet induced liver steatosis in
Experimental animals”**

Thesis submitted to

THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE



By

MISS. SADHANA SANDEEP PAWAR
(B. Pharm)

In partial fulfillment, of

The requirements for the degree of

MASTER OF PHARMACY
IN
PHARMACOLOGY

UNDER THE GUIDANCE OF

DR. D. D. BANDAWANE
(Head of Department)

DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY, NIGDI,
PUNE - 44.
(2023-24)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Sadhana Sandeep Pawar declare that the thesis entitled, "Evaluating effect of *Benincasa hispida* (thunb) Cong. Extract on MCD diet induced liver steatosis in Experimental animals" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. D. D. Bandawane and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 2 Aug 2024

Ms. Sadhana S. Pawar

Place: Nigdi, Pune



MODERN COLLEGE OF PHARMACY NIGDI PUNE-44

(ACCREDITED BY NAAC)

Dr. D. D. Bandawane
HOD and Professor,
Department of Pharmacology
P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "Evaluating effect of *Benincasa hispida* (thunb) Cong. Extract on MCD diet induced liver steatosis in Experimental animals" submitted for the degree of Master of Pharmacy, is the record of research work carried out by Miss. Sadhana Sandeep Pawar under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 2 Aug 2024
Place: Nigdi, Pune-44

Dr. D D. Bandawane
Research guide
HOD & Professor
Department of Pharmacology



MODERN COLLEGE OF PHARMACY NIGDI PUNE-44

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P. E. S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune – 44.

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Date: 2 Aug 2024
Place: Nigdi, Pune-44

Dr. D D. Bandawane
Research guide
HOD & Professor
Department of Pharmacology



MODERN COLLEGE OF PHARMACY NIGDI PUNE-44

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Dr. P. D.
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Principal,
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Pune - 44.
Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, "Evaluating effect of *Benincasa hispida* (thunb) Cong. Extract on MCD diet induced liver steatosis in Experimental animals" submitted for the degree of Master of Pharmacy, is the record of research work carried out by Miss. Sadhana Sandeep Pawar under the guidance of Dr. D. D. Bandawane at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 2 Aug 2024

Place: Nigdi, Pune-44



Dr. P. D. Chaudhari,

Principal

**"EVALUATION OF ANTI UROLITHIATIC ACTIVITY
OF LIPOSOMES OF *PASSIFLORA FOETIDA* LEAVES
IN ETHYLENE GLYCOL INDUCED UROLITHIASIS IN
EXPERIMENTAL RATS"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
MISS. SNEHAL HANAMANT KASTURE

(B. Pharm)
In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACOLOGY**

**UNDER THE GUIDENCE OF
DR. SONALI S. NIPATE
(M. Pharm)
Professor (Dept. of Pharmacology)
DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44.
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Snehal. H. Kasture declare that the thesis entitled, "Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Passiflora foetida* Leaves In Ethylene Glycol Induced Urolithiasis In Experimental Rats" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Sonali S. Nipate and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune



Miss. Snehal. H. Kasture




**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. Sonali S. Nipate
Professor,
(Pharmacology)
P.E.S. Modern College of
Pharmacy, Yamunanagar, Nigdi,
Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Passiflora foetida* Leaves In Ethylene Glycol Induced Urolithiasis In Experimental Rats" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Snehal H. Kasture** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/2024
Place: Nigdi, Pune


Dr. Sonali S. Nipate
Research Guide



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "**Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Passiflora foetida* Leaves In Ethylene Glycol Induced Urolithiasis In Experimental Rats**" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. Snehal H. Kasture under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date: 16/08/2024

Place: Nigdi, Pune

Dr. D. D. Bandawane
Professor and HOD,
Department of Pharmacology



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)**

Dr. P. D. Chaudhari
Principal,
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.
Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitles, “**Evaluation Of Anti Urolithiatic Activity Of Liposomes Of *Passiflora foetida* Leaves In Ethylene Glycol Induced Urolithiasis In Experimental Rats**” is a record of bonafide research work carried out by **Miss. Snehal H. Kasture** under the guidance of **Dr. Sonali S. Nipate** at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 16/08/2024

Place: Nigdi, Pune



Dr. P. D. Chaudhari

Principal



**"FORMULATION AND DEVELOPMENT OF
NANOPARTICLES LOADED OCULAR INSERT"**

Thesis submitted to
**THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**




By
Miss. Namrata Jaywant Daphale
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY
IN
QUALITY ASSURANCE**

Under the guidance of
Dr. Smita S. Pimple
(M. Pharm. PhD)
Professor
(Department of Pharmaceutics)

DEPARTMENT OF QUALITY ASSURANCE

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44
(2023-24)**


16/8/24



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am MISS. DAPHALE NAMRATA JAYWANT declare that the thesis entitled "FORMULATION AND DEVELOPMENT OF NANOPARTICLES LOADED OCULAR INSERT" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of DR. SMITA S. PIMPLE has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

Date: 31/7/24
Place: Pune

Namrata
Miss. Daphale Namrata Jaywant



**PES's MODERN COLLEGE OF PHARMACY, NIGDI,
PUNE-44
(ACCREDITED BY NAAC A⁺)**


DR. SMITA S. PIMPLE

Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "FORMULATION AND DEVELOPMENT OF NANOPARTICLES LOADED OCULAR INSERT" submitted for degree of Master of Pharmacy (Quality Assurance), is the record of research work carried out by MISS. DAPHALE NAMRATA JAYWANT under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/07/2024
Place: Pune


Dr. Smita S. Pimple
Research Guide



**PES's MODERN COLLEGE OF PHARMACY, NIGDI,
PUNE-44
(ACCREDITED BY NAAC A⁺)**

DR. KARIMUNNISA S. SHAIKH
Head of Department & Professor,
(Quality Assurance),
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "FORMULATION AND DEVELOPMENT OF NANOPARTICLES LOADED OCULAR INSERT" submitted for degree of Master of Pharmacy (Quality assurance), is the record of research work carried out by MISS. DAPHALE NAMRATA JAYWANT under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 21/7/24
Place: Pune

Dr. Karimunnisa S. Shaikh
HOD



**PES's MODERN COLLEGE OF PHARMACY NIGDI,
PUNE- 44
(ACCREDITED BY NAAC A⁺)**

DR. P. D. CHAUDHARI

Principal,

P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "FORMULATION AND DEVELOPMENT OF NANOPARTICLES LOADED OCULAR INSERT". For MASTER OF PHARMACY (quality assurance) is a record of bonafide research work carried out by MISS. DAPHALE NAMRATA JAYWANT under the guidance of DR. SMITA S. PIMPLE at PES's Modern College of Pharmacy, Nigdi, Pune-44 during the academic year 2023-2024.

Date: 31/7/24
Place: Nigdi, Pune



Dr. P. D. Chaudhari
Principal

**"FORMULATION AND EVALUATION OF TOPICAL
PREPARATION FOR WOUND HEALING"**

Thesis submitted to
**THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

**Miss. MEGHANA NITIN PATIL
(B. Pharm.)**

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

Pharmaceutical Quality Assurance

**Under the Guidance of
Dr. UPENDRA. C. GALGATTE
Professor (M. Pharm. PhD)
(Dept. of Pharmaceutics)**

**DEPARTMENT OF PHARMACEUTICAL QUALITY ASSURANCE
PROGRESSIVE EDUCATION SOCIETY
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44 (2023-24)**

Upendra C. Galgatte
19/8/24



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Miss. Meghana Nitin Patil declare that the thesis entitled "FORMULATION AND EVALUATION OF TOPICAL PREPARATION FOR WOUND HEALING" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Upendra Chandrakant Galgatte has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

1998

Miss. Meghana Nitin Patil

Date:

Place: Nigdi

विद्यायां सर्वसुखायानमः



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Dr. Upendra C. Galgatte
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Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"FORMULATION AND EVALUATION OF TOPICAL PREPARATION FOR WOUND HEALING"** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **Miss. Meghana Nitin Patil** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:

Place: Nigdi


Dr. Upendra C. Galgatte
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Research Guide



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ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "FORMULATION AND EVALUATION OF TOPICAL PREPARATION FOR WOUND HEALING" submitted for degree of MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE), is a record of research work carried out by Miss. Meghana Nitin Patil under the guidance of Professor Dr. Upendra C. Galgatte at PES's Modern College of Pharmacy, Nigdi, Pune-44 during the academic year 2023-2024.

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Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, **"FORMULATION AND EVALUATION OF TOPICAL PREPARATION FOR WOUND HEALING"** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **Miss. Meghana Nitin Patil** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:

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Dr. Karimunissa S. Shaikh
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**"FORMULATION AND EVALUATION OF VITAMIN E
TPGS BASED TRANSFEROSOMAL HYDROGEL FOR
ANTIFUNGAL TREATMENT"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

Ms. Damini Pradeep Shinde
(B. Pharm.)

In partial fulfilment of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICAL QUALITY ASSURANCE

**UNDER THE GUIDANCE OF
Dr. N. M. Gaikwad**

(M. Pharm, PhD), Associate professor,
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**DEPARTMENT OF PHARMACEUTICAL QUALITY
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(2023-24)

(ACCREDITED By NAAC)

Handwritten signature
19/8/2024



SANTRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am MS. DAMINI PRADEEP SHINDE declare that the thesis entitled, "**FORMULATION AND EVALUATION OF VITAMIN E TPGS BASED TRANSFEROSOMAL HYDROGEL FOR ANTIFUNGAL TREATMENT**", submitted by me for degree of 'Master of Pharmacy'(Pharmaceutical Quality Assurance), is the record of work carried out by me under the guidance of Dr. N. M. Gaikwad at P.E.S. Modern College of Pharmacy, Nigdi, Pune- 44 during the academic year 2023-2024 and that has not formed the basis for for the award of any degree or Diploma or Other titles in this or any other University.

Date:
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Ms. Damini P. Shinde



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DR. N. M. Gaikwad

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CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **“FORMULATION AND EVALUATION OF VITAMIN E TPGS BASED TRANSFEROSOMAL HYDROGEL FOR ANTIFUNGAL TREATMENT”**, submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **MS. DAMINI PRADEEP SHINDE** under my guidance and supervision at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during academic year 2023-2024 and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

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Dr. N. M. Gaikwad
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Dr. Karimunnisa S. Shaikh
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DR. P. D. CHAUDHARI

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ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, **"FORMULATION AND EVALUATION OF VITAMIN E TPGS BASED TRANSFEROSOMAL HYDROGEL FOR ANTIFUNGAL TREATMENT"**. For **MASTER OF PHARMACY (Pharmaceutical Quality Assurance)** is a record of bonafide research work carried out by **MS. DAMINI PRADEEP SHINDE** under the guidance and supervision of **Dr. N. M. Gaikwad** at P.E.S. Modern College of Pharmacy, Nigdi, Pune- 44 during academic year 2023-2024.

Date:

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Dr. P. D. Chaudhari
Principal



"FORMULATION & EVALUATION OF BILAYER TABLET FOR SUSTAINED RELEASE APPLICATION"

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Mr. CHONDE ADITYA DEVENDRA
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN

Pharmaceutical Quality Assurance

Under the Guidance of
Dr. SMITA S. PIMPLE
(M. Pharm. PhD) Professor
(Dept. of Pharmaceutics)

DEPARTMENT OF PHARMACEUTICAL QUALITY ASSURANCE

PROGRESSIVE EDUCATION SOCIETY'S
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SAVITRIBAI PHULE PUNE UNIVERSITY

DECLARATION



I am MR. CHONDE ADITYA DEVENDRA declare that the thesis entitled "FORMULATION & EVALUATION OF BILAYER TABLET FOR SUSTAINED RELEASE APPLICATION" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of DR. SMITA S. PIMPLE has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

A.D. Chonde

Date:

Place: Pune

Mr. ADITYA DEVENDRA CHONDE



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Date:

21/07/24

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Dr. P. D. Chaudhari
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**FORMULATION AND EVALUATION OF TOPICAL
PREPARATION OF SODIUM HYALURONATE**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
(SCIENCE AND TECHNOLOGY)
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Mr. NAGURE ABHISHEK NAMDEV
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
Pharmaceutical Quality Assurance

Under the Guidance of
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(2023-24)

(ACCREDITED BY NAAC and NBA)



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **MR. NAGURE ABHISHEK NAMDEV** declare that the thesis entitled "**Formulation and evaluation of topical preparation of sodium hyaluronate**" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **DR. UPENDRA C. GALGATTE** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

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Mr. NAGURE ABHISHEK NAMDEV



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CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "**Formulation and evaluation of topical preparation of sodium hyaluronate**" submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **MR. NAGURE ABHISHEK NAMEV** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

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Place: Pune


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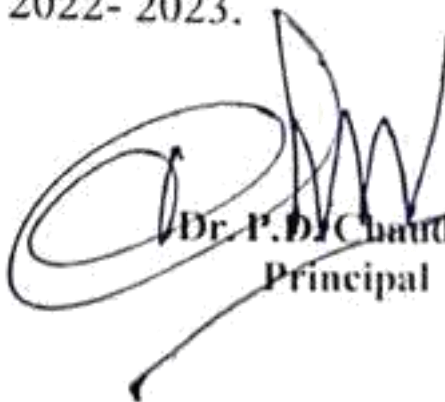
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ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, **"Formulation and evaluation of topical preparation of sodium hyaluronate"**. For **MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE)** is a record of bonafide research work carried out by **MR. NAGURE ABHISHEK NAMDEV** under the guidance of **DR. UPENDRA C. GALGATTE** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022- 2023.

Date:

Place: Nigdi, Pune


Dr. P. D. Chaudhari
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“DEVELOPMENT OF NOVEL ANTI-FUNGAL SHAMPOO FOR THE MANAGEMENT OF SEBORRHEIC DERMATITIS”

**Thesis submitted to
THE FACULTY OF PHARMACEUTICALS SCIENCES
(SCIENCE AND TECHNOLOGY)
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

Ms. SAMPADA KUNDLIK RAKSHE.

(M. Pharm.)

**In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY**

IN

Pharmaceutical Quality Assurance

Under the Guidance of

Dr. BHUSHAN P. PIMPLE.

(H.O.D)

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(2022-23)

(ACCREDITED By NAAC and NBA)

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28/7/23

SAVITERIBAI PHULE PUNE UNIVERSITY**DECLARATION**

I am **MS. SAMPADA KUNDLIK RAKSHE** declare that the thesis entitled **“DEVLOPMENT OF NOVEL ANTI FUNGAL SHAMPOO FOR THE MANAGEMENT OF SEBORREHIC DERMATITIS”**

submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **DR. BHUSHAN P. PIMPLE** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-2024 and that has not has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

Date: 29/07/24

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CERTIFICATE BY THE GUIDE

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submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **MS. SAMPADA KUNDLIK RAKSHE** under my guidance and supervision at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-2024 and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

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Date: 29/7/24

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Dr. Karimunnisa S. Shaikh
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**"DEVELOPMENT OF NOVEL ANTI-FUNGAL
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2023- 2024 and that has not formed the basis for award of any
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Date: 29/7/24
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P.D. Chaudhari
Principal



**“Quantification and Identification of Polyphenolic Acids from Plant Source
by HPTLC, Structural Based Molecular Docking of Polyphenolic Acids and
Their Pharmacological Activities”**

**Thesis submitted to
The Faculty of Pharmaceutical Sciences
Savitribai Phule Pune University,
Pune**



By

**Ms. Neha Prabhakar Shegokar
(B. Pharm)**

**In partial fulfillment, of
The requirements for the degree of
Master of Pharmacy
In**

**Pharmaceutical Quality Assurance
Under The Guidance of
Dr. Pallavi M. Patil
(M. Pharm, Ph.D.)**

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**Department of Pharmaceutical Quality
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**Progressive Education Society's
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Yehaniil
19/8/24



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. Neha Prabhakar Shegokar declare that the thesis entitled "Quantification and Identification of Polyphenolic Acids from Plant Source by HPTLC, Structural Based Molecular Docking of Polyphenolic Acids and Their Pharmacological Activities" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Pallavi M. Patil** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

Ms. Neha P. Shegokar

Date:

Place: Pune



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Associate Professor,
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CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"Quantification and Identification of Polyphenolic Acids from Plant Source by HPTLC, Structural Based Molecular Docking of Polyphenolic Acids and Their Pharmacological Activities"** submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **Ms. Neha Prabhakar Shegokar** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Pune

Dr. Pallavi M. Patil
(Research Guide)



**PES'S MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED WITH GRADE A⁺ BY NAAC)**

Dr. K. S. Shaikh

**Head of Department & Professor,
Department of Pharmaceutical Quality Assurance Techniques
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.**

CERTIFICATE BY THE HOD

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**Dr. K. S. Shaikh
(HOD)**

**Date:
Place: Pune**



**PES'S MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "Quantification and Identification of Polyphenolic Acids from Plant Source by HPTLC, Structural Based Molecular Docking of Polyphenolic Acids and Their Pharmacological Activities". For Master of Pharmacy (Pharmaceutical Quality Assurance Techniques) is a record of Bonafide research work carried out by **Ms. Neha Prabhakar Shegokar** under the guidance of **Dr. Pallavi M. Patil** at PES's Modern College of Pharmacy, Nigdi, Pune-44 during the academic year 2023-2024.

Date:

Place: Nigdi, Pune



Dr. P. D. Chaudhari
(Principal)



**"DEVELOPMENT AND EVALUATION OF CICLOPIROX
LOADED NANOPARTICLES FOR INTRANASAL DELIVERY"**

Thesis submitted to
THE FACULTY OF SCIENCE AND TECHNOLOGY
SUBJECT: PHARMACY
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By

RUTUJA SATISH SONAWANE

B. Pharm

Impartial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY

IN

Pharmaceutical Quality Assurance
Under the Guidance of

Dr. KARIMUNNISA S. SHAIKH
(Professor and Head, Department of
Pharmaceutical Quality Assurance.)

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44
(2023-24)**



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am MS. RUTUJA SATISH SONAWANE declare that the thesis entitled "**DEVELOPMENT AND EVALUATION OF CICLOPIROX LOADED NANOPARTICLES FOR INTRANASAL DELIVERY**" submitted by me for degree of Master of Pharmacy is the record of work carried out under the guidance of Prof. **DR. KARIMUNNISA S. SHAIKH** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

Date:

MS. RUTUJA SATISH SONAWANE

Place: Pune



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Head of Department & Professor,
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Yamunanagr, Nigdi, Pune-44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **“DEVELOPMENT AND EVALUATION OF CICLOPIROX LOADED NANOPARTICLES FOR INTRANASAL DELIVERY”** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **MS. RUTUJA SATISH SONAWANE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Pune

Dr. KARIMUNNISA S. SHAIKH
Research Guide



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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Date:
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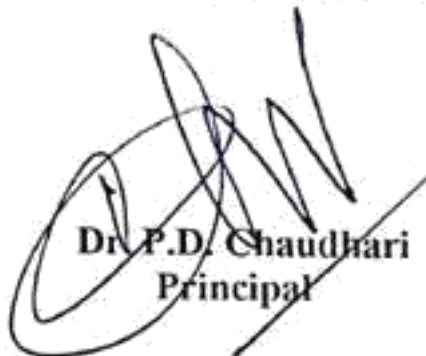
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT AND EVALUATION OF CICLOPIROX LOADED NANOPARTICLES FOR INTRANASAL DELIVERY"** For MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE) is a record of bonafide research work carried out by **MS. RUTUJA SATISH SONAWANE** under the guidance of **Prof. DR. KARIMUNNISA S. SHAIKH** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-24

Date:

Place: Nigdi, Pune


Dr. P.D. Chaudhari
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**“Design, Formulation and Evaluation of Herbal Emulgel
Contains *Psoralea Corylifolia* Extract”**

**Thesis submitted to
THE FACULTY OF SCIENCE AND TECHNOLOGY
SUBJECT: PHARMACY
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
ABHIJEET PRABHAKAR MORE**

B. Pharm

**Impartial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY**

IN

Pharmaceutical Quality Assurance

Under the Guidance of

Prof. Dr. VITTHAL V. CHOPADE

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Professor

**PROGRESSIVE EDUCATION SOCIETY'S
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DECLARATION

I am **MR. ABHIJEET PRABHAKAR MORE** declare that the thesis entitled "Design, Formulation and Evaluation of Herbal Emulgel Contains *Psoralea Corylifolia* Extract" submitted by me for degree of Master of Pharmacy is the record of work carried out under the guidance of Prof. **DR. VITTHAL V. CHOPADE** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

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Date:
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**“FORMULATION AND EVALUATION OF HERBAL
GEL FOR TREATING MUCOSAL DELIVERY”**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
(SCIENCE AND TECHNOLOGY)
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
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(B. Pharm.)**

**In partial fulfillment of
The requirements for the degree of
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IN
Pharmaceutical Quality Assurance**

**Under the Guidance of
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Associate Professor
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28/11/24

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DECLARATION

I am **MR. NAVGHARE PAVAN BABURAO** declare that the thesis entitled **"FORMULATION AND EVALUATION OF HERBAL GEL FOR TREATING MUCOSAL DELIVERY"** submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **DR. KALYANI S. KAKAD** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

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Place: Pune



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Dr. Karimunnisa S. Shaikh
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Date:

Place: Nigdi, Pune



Dr. P.D. Chaudhari
Principal



**"ESTIMATION OF PROPRANOLOL AND ITS
RELATED SUBSTANCE BY UFLC TECHNIQUE"**

Thesis submitted to

THE FACULTY OF PHARMACEUTICAL SCIENCES



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

By

Mr. PRATHMESH ASHOK NALE

(B. Pharm)

In partial fulfilment of the requirements for the degree of

MASTER OF PHARMACY IN

PHARMACEUTICAL QUALITY ASSURANCE

Under the Guidance of

Dr. AMIT. S. TAPKIR

(M. Pharm, PhD)

Associate Professor

Department of Pharmaceutical Chemistry

**DEPARTMENT OF PHARMACEUTICAL QUALITY
ASSURANCE**

**PROGRESSIVE EDUCATION SOCIETY'S
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NIGDI, PUNE-411044**

(ACCREDITED BY NAAC- A+ Grade and NBA)

(2023-24)

Prathmesh
19/8/24



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **Mr. Prathmesh Ashok Nale**, declare that the thesis entitled, “**Estimation of Propranolol and Its Related Substance by UFLC Technique**” submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Amit S. Tapkir** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 19/08/24

Place: Nigdi, Pune

Mr. Prathmesh Ashok Nale



Dr. Amit S. Tapkir

Department of Pharmaceutical Chemistry
PES, Modern College of Pharmacy,
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MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-411044
(ACCREDITED BY NAAC- A+ Grade and NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Estimation of Propranolol and Its Related Substance by UFLC Technique" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Mr. Prathmesh Ashok Nale** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 19/08/2024
Place: Nigdi, Pune

Dr. Amit.S Tapkir
Research Guide



Dr. Karimunnisa S. Shaikh
Head of Department,
Pharmaceutical Quality Assurance
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Date:
Place: Nigdi, Pune

Dr. Karimunnisa S. Shaikh
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Dr. P. D. Chaudhari

Principal,

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Yamunanagar, Nigdi, Pune- 44

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.



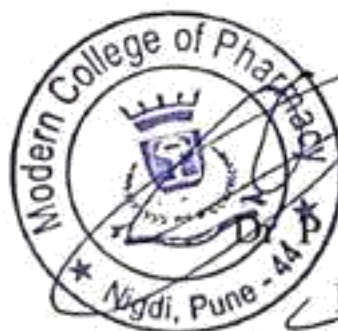
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Date:

Place: Nigdi, Pune




D. Chaudhari

Principal

**"FACILE SYNTHESIS OF FLUORESCENT
GRAPHENE QUANTUM DOTS FOR BIOLOGICAL
APPLICATION"**

**Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES
(SCIENCE AND TECHNOLOGY)
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By
Mr. Shivshankar Ramrao Waghmare
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICAL QUALITY ASSURANCE**

Under the Guidance of
DR. MINAL T. HARDE
M. Pharm. Ph.D.
Associate Professor
Department of Pharmaceutical Chemistry

**DEPARTMENT OF PHARMACEUTICAL QUALITY
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**PROGRESSIVE EDUCATION SOCIETY'S
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(2022-23)

(ACCREDITED BY NAAC and NBA)

Handwritten signature and date: 16/8/24

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, MR. SHIVSHANKAR RAMRAO WAGHMARE declare that the thesis entitled, “FACILE SYNTHESIS OF FLUORESCENT GRAPHENE QUANTUM DOTS FOR BIOLOGICAL APPLICATION” submitted by me for Degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of work carried out by me under the guidance of DR. MINAL T. HARDE at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-2024 and has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

A handwritten signature in black ink, appearing to read 'Shivshankar', is written over a horizontal line.

Date:
Place: Pune

Mr. Shivshankar Ramrao Waghmare



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Place: Nigdi, Pune



Dr. P.D. Chaudhari

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**“FORMULATION AND EVALUATION OF VAGINAL
DRUG DELIVERY SYSTEM TO CONTROL VAGINAL
MICROBIOTA”**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
(SCIENCE AND TECHNOLOGY)
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
Miss. ZAREKAR RENUKA GANGADHAR
(B. Pharm.)**

**In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
Pharmaceutical Quality Assurance**

**Under the Guidance of
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(ACCREDITED BY NAAC and NBA)

K. J. J. J.
19/8/24

SAVITRIBAI PHULE PUNE UNIVERSITY**DECLARATION**

I am **Miss. ZAREKAR RENUKA GANGADHAR** declare that the thesis entitled “**FORMULATION AND EVALUATION OF VAGINAL DRUG DELIVERY SYSTEM TO CONTROL VAGINAL MICROBIOTA**” submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. ANURADHA G. MORE** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

Date: 18/07/24

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**Dr. Karimunnisa S. Shaikh
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Date: 18/07/2024
Place: Nigdi, Pune



Dr. P. D. Chaudhari
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**"DEVELOPMENT OF NATURAL POLYSACCHARIDE BASED
ORAL FORMULATION OF SERTRALINE HYDROCHLORIDE"**

**Thesis submitted to
THE FACULTY OF SCIENCE AND TECHNOLOGY
SUBJECT: PHARMACY
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

AJAY PRAKASH PATANGE

B. Pharm

Impartial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY

IN

Pharmaceutical Quality Assurance

Under the Guidance of

Dr. ATUL A. PHATAK

(Professor and Head,
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(2023-24)**

Dr. Atul A. Phatak
28/11/24



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **MR. AJAY PRAKASH PATANGE** declare that the thesis entitled "**DEVELOPMENT OF NATURAL POLYSACCHARIDE BASED ORAL FORMULATION OF SERTRALINE HYDROCHLORIDE**" submitted by me for degree of Master of Pharmacy is the record of work carried out under the guidance of Prof. **DR. ATUL A. PHATAK** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

Date: 29/07/24

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29/7/24

Place: Pune

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Date:
Place: Pune

**Dr. Karimunnisa S. Shaikh
HOD**



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
(ACCREDITED BY NAAC AND NBA)

DR. P. D. CHAUDHARI

Principal,

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune- 44

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT OF NATURAL POLYSACCHARIDE BASED ORAL FORMULATION OF SERTRALINE HYDROCHLORIDE."** For MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE) is a record of bonafide research work carried out by **MR. AJAY PRAKASH PATANGE** under the guidance of **Prof. DR. ATUL A. PHATAK** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-24

Date:

Place: Nigdi, Pune



Dr. P.D. Chaudhari
Principal



**"DEVELOPMENT AND EVALUATION OF NANO FORMULATION OF
ALPHA ARBUTIN FOR WOUND HEALING ACTIVITY"**

Thesis submitted to
THE FACULTY OF SCIENCE AND TECHNOLOGY
SUBJECT: PHARMACY
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
VARSHA SUNIL PAWAR
B. Pharm
Impartial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
Pharmaceutical Quality Assurance
Under the Guidance of

Dr. KARIMUNNISA S. SHAIKH
(Professor and Head, Department of
Pharmaceutical Quality Assurance.)

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44
(2023-24)**



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **MS. VARSHA SUNIL PAWAR** declare that the thesis entitled "DEVELOPMENT AND EVALUATION OF NANO FORMULATION OF ALPHA ARBUTIN FOR WOUND HEALING ACTIVITY" submitted by me for degree of Master of Pharmacy is the record of work carried out under the guidance of Prof. **DR. KARIMUNNISA S. SHAIKH** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

Date:

MS. VARSHA SUNIL PAWAR

Place: Pune



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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DR. KARIMUNNISA S. SHAIKH
Head of Department & Professor,
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CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT AND EVALUATION OF NANO FORMULATION OF ALPHA ARBUTIN FOR WOUND HEALING ACTIVITY"** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **MS. VARSHA SUNIL PAWAR** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Pune

Dr. KARIMUNNISA S. SHAIKH
Research Guide



**PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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DR. KARIMUNNISA S. SHAIKH

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CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT AND EVALUATION OF NANO FORMULATION OF ALPHA ARBUTIN FOR WOUND HEALING ACTIVITY"** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **MS. VARSHA SUNIL PAWAR** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

**Date:
Place: Pune**

**Dr. Karimunnisa S. Shaikh
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ENDORSEMENT BY THE PRINCIPAL

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Date:

Place: Nigdi, Pune


Dr. P.D. Chaudhari
Principal



**"DEVELOPMENT AND EVALUATION OF K-CATRRAGEENAN
BASED ANTIAGEING GEL "**

Thesis submitted to
THE FACULTY OF SCIENCE AND TECHNOLOGY
SUBJECT: PHARMACY
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
PRATIKSHA LAXMAN RAUT

B. Pharm

Impartial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY

IN

Pharmaceutical Quality Assurance
Under the Guidance of
Dr. ATUL A. PHATAK
(Professor and Head,
Department of Pharmaceutics.)

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44
(2023-24)**

*Dr. P
29/7/24*



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. PRATIKSHA LAXMAN RAUT declare that the thesis entitled "DEVELOPMENT AND EVALUATION OF K-CARRAGEENAN BASED ANTIAGEING GEL" submitted by me for degree of Master of Pharmacy is the record of work carried out under the guidance of Prof. DR. ATUL A. PHATAK has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

Date: 29/07/2024

Place: Pune

MS. Pratiksha Laxman Raut



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
(ACCREDITED BY NAAC AND NBA)

DR. ATUL A. PHATAK
Head of Department & Professor,
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Yamunanagr, Nigdi, Pune-44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT AND EVALUATION OF K-CARRAGEENAN BASED ANTIAGEING GEL"** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **Ms. PRATIKSHA LAXMAN RAUT** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 29/07/24
Place: Pune


Dr. ATUL A. PHATAK
Research Guide



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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DR. KARIMUNNISA S. SHAIKH

Head of Department & Professor,
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Date: 29/07/2024
Place: Pune

Dr. Karimunnisa S. Shaikh
HOD



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

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Date: 29/07/2024

Place: Nigdi, Pune




Dr. P.D. Chaudhari
Principal



**DESIGN, SYNTHESIS, MOLECULAR DOCKING,
AND ANTI-TUBERCULAR ACTIVITY OF NOVEL
INDOLE DERIVATIVES TARGETING THE
MYCOBACTERIAL INHA ENZYME"**

Criteria 1 Curricular Aspect



Thesis submitted to

**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

MS. ANUSHRI ASHOK DEULKAR

(B. Pharm)

In partial fulfilment of the requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Under the Guidance of

DR. SHAILAJA B. JADHAV

(M. Pharm, PhD)

Head of Department of Pharmaceutical Chemistry

**DEPARTMENT OF PHARMACEUTICAL
CHEMISTRY**

PROGRESSIVE EDUCATION SOCIETY'S

**MODERN COLLEGE OF PHARMACY, NIGDI,
PUNE-44**

(ACCREDITED BY NAAC and NBA)

(2023-24)

(BEST COLLEGE AWARDED BY SAVITRIBAI
PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **Ms. Anushri Ashok Deulkar**, declare that the thesis entitled, "**Design, synthesis, molecular docking, and anti-tubercular activity of novel indole derivatives targeting the mycobacterial InhA enzyme**" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Shailaja B. Jadhav** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 10/08/24

Place: Nigdi, Pune

A handwritten signature in black ink, reading 'Deulkar'.

Ms. Anushri Ashok Deulkar



Dr. Shailaja B. Jadhav

Head of Department of Pharmaceutical Chemistry

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "**Design. synthesis, molecular docking, and anti-tubercular activity of novel indole derivatives targeting the mycobacterial InhA enzyme**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Anushri Ashok Deulkar** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 10/08/24

Place: Nigdi, Pune

Dr. Shailaja B. Jadhav

Research Guide



**“Synthesis Characterization and Biological
Evaluation of Indolyl Chalcone as
Antitubercular Agent”**

Thesis submitted to

THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



MS. ANURADHA KAKA KAMBLE
(B. Pharm)

In partial fulfilment of the requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Under the Guidance of

Dr. AMIT S. TAPKIR
M. Pharm PhD
(Associate Professor)

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
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(ACCREDITED BY NAAC-A* grade and NBA)

(2023-2024)

[Signature]
13/08/2024

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **Ms. Anuradha Kaka Kamble**, declare that the thesis entitled, **"Synthesis Characterization and Biological Evaluation of Indolyl Chalcone as Antitubercular Agent"** submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Amit S. Tapkir** Associate Professor, Department of Pharmaceutical Chemistry, Progressive Education Society's; Modern College of Pharmacy, Nigdi, Pune, has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/2024
Place: Nigdi, Pune

A handwritten signature in black ink, appearing to read 'Anuradha', with a horizontal line drawn through it.

Signature

Ms. Anuradha Kaka Kamble

Dr. Amit S. Tapkir

Associate Professor

Department of Pharmaceutical Chemistry,

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Yamunanagar, Nigdi, Pune- 44

Member, Board of Studies (Pharmaceutical Chemistry)

Savitribai Phule Pune University, Pune.



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(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "**Synthesis, Characterization and Biological Evaluation of Indolyl Chalcone as a Antitubercular Agent**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Anuradha Kaka Kamble** under my guidance and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/2024
Place: Pune

Dr. Amit S. Tapkir
Associate Professor
Modern College of Pharmacy,
Nigdi, Pune

Dr. Shailaja B. Jadhav
Head of Department of Pharmaceutical Chemistry
PES, Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44




MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "**Synthesis, Characterization and Biological Evaluation of Indolyl Chalcones as Antitubercular Drugs**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Anuradha Kaka Kamble** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/2024
Place:


Dr. Shailaja B. Jadhav
Head of Department
Modern College of Pharmacy,
Nigdi, Pune.



**"DESIGN, SYNTHESIS AND BIOLOGICAL ACTIVITY
OF INDOLE DERIVATIVES AS ANTI-VIRAL
AGENTS"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By

**Ms. Samruddhi Ganesh Ingle
(B. Pharm)**

In partial fulfillment, of
The requirements for the degree of

**MASTER OF PHARMACY
IN
PHARMACEUTICAL CHEMISTRY**

UNDER THE GUIDENCE OF

**Dr. Shailaja B Jadhav.
(M. Pharm, PhD)**

(HOD of Dept. of Pharmaceutical Chemistry)

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE – 44
(2023-24)**



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. Samruddhi Ganesh Ingle declare that the thesis entitled, "DESIGN, SYNTHESIS AND BIOLOGICAL ACTIVITY OF INDOLE DERIVATIVES AS ANTI-VIRAL AGENTS" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Shailaja B Jadhav has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

10/08/2024

Date:

Ms. Samruddhi Ganesh Ingle

Place: Nigdi, Pune



~~Dr. Shailaja B. Jadhav~~

Head of Department,
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MODERN COLLEGE OF PHARMACY
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(ACCREDITED BY NAAC)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “**DESIGN, SYNTHESIS AND BIOLOGICAL ACTIVITY OF INDOLE DERIVATIVES AS ANTI- VIRAL AGENTS**” submitted for degree of Master of Pharmacy, is the record of research work carried out by **Ms. Samruddhi Ganesh Ingle** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

10/08/2024

Date:

Place: Nigdi, Pune

Dr. Shailaja B Jadhav
Research Guide

**"Benchmarked Virtual Screening of FDA Database for
Prediction of GSK3-Beta Inhibitors as an Anti-Alzheimer's
Agent"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
Ms. POOJA P. NAGALAPUR
(B. Pharm)

In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICAL CHEMISTRY**

Under the guidance of
DR. SOMDATT A Y. CHAUDHARI
(M. Pharm, Ph.D.)
Associate Professor

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
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NIGDI, PUNE – 44
(2023-24)
(ACCREDITED BY NAAC and NBA)**

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SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. POOJA P NAGALAPUR, declare that the thesis entitled, "Benchmarked Virtual Screening of FDA Database for Prediction of GSK3-Beta Inhibitors as an Anti-Alzheimer's Agent" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of **DR. SOMDATTA Y. CHAUDHARI** has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

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CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, **“Benchmarked Virtual Screening of FDA Database for Prediction of GSK3-Beta Inhibitors as an Anti-Alzheimer’s Agent”** submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. POOJA P. NAGALAPUR** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 09/10/24
Place: Nigdi, Pune

Dr. Somdatta Y. Chaudhari
Research Guide



**"SYNTHESIS, PURIFICATION AND
CHARACTERIZATION OF SOME IMPURITIES OF
DICLOFENAC SODIUM"**

**Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES**



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

By

MS. SHUBHANGI NAVNATH SHINDE

(B. Pharm)

In partial fulfilment of the requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Under the Guidance of

Dr. AMIT. S. TAPKIR

(M. Pharm, PhD)

Associate Professor

Department of Pharmaceutical Chemistry

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(ACCREDITED BY NAAC- A+ Grade and NBA)

(2023-24)

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SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **Ms. Shubhangi Navnath Shinde**, declare that the thesis entitled, “**Synthesis, Purification and Characterization of Some Impurities of Diclofenac Sodium**” submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Amit.S Tapkir** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/2024

Place: Nigdi, Pune

Ms. Shubhangi Navnath Shinde

Dr. Amit S. Tapkir

Department of Pharmaceutical Chemistry

PES, Modern College of Pharmacy,

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& member Board of studies (Pharmaceutical Chemistry)

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CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "**Synthesis ,Purification and Characterization of Some Impurities of Diclofenac Sodium**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Shubhangi Navnath Shinde** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/2024
Place: Nigdi, Pune



Dr. Amit.S Tapkir
Research Guide



Dr. Shailaja B. Jadhav

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CERTIFICATE BY THE HOD

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Date:

Place: Nigdi, Pune

Dr. Shailaja B. Jadhav

HOD



“Synthesis of Lenalidomide by Continuous Flow Technique”

Thesis submitted to

THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



Mr. Vaibhav Shivaji Mali
(B. Pharm)

In partial fulfilment of the requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Under the Guidance of

Dr. AMIT S. TAPKIR
M. Pharm PhD
(Associate Professor)

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

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MODERN COLLEGE OF PHARMACY,
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(ACCREDITED BY NAAC-A⁺ grade and NBA)

(2023-2024)



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **Mr. Vaibhav Shivaji mali**, declare that the thesis entitled, **"Synthesis of Lenalidomide by Continuous Flow Technique"** submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Amit S. Tapkir** Associate Professor, Department of Pharmaceutical Chemistry, Progressive Education Society's; Modern College of Pharmacy, Nigdi, Pune, has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Nigdi, Pune


Signature
Ms. Vaibhav Shivaji Mali



Dr. Amit S. Tapkir
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Member, Board of Studies (Pharmaceutical Chemistry)
Savitribai Phule Pune University, Pune.




MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "**Synthesis of Lenalidomide by Continuous Flow Technique**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Mr. Vaibhav Shivaji Mali** under my guidance and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/2024
Place: Pune


Dr. Amit S. Tapkir
Associate Professor
Modern College of Pharmacy,
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Dr. Shailaja B. Jadhav

Head of Department of Pharmaceutical Chemistry

PES, Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune- 44



PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-411044
(ACCREDITED BY NAAC- A+ Grade and NBA)

CERTIFICATE BY THE HOD

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Date:

Place: Nigdi, Pune

Dr. Shailaja B. Jadhav

HOD

**"SYNTHESIS OF GRAPHENE QUANTUM DOTS AND
THEIR APPLICATIONS"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
Ms. Samiksha Sanjay Patokar
(B. Pharm)
In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICAL CHEMISTRY**

Dr. Minal T. Harde
**UNDER THE GUIDENCE OF
Dr. Minal T. Harde
(M. Pharm, PhD)
Associate Professor
Dept. of Pharmaceutical Chemistry**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE – 44
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE
PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. Samiksha Sanjay Patokar declare that the thesis entitled, "SYNTHESIS OF GRAPHENE QUANTUM DOTS AND THEIR APPLICATIONS" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Minal T. Harde has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 10/08/24


Ms. Samiksha Sanjay Patokar

Place: Nigdi, Pune



Dr. Minal T. Harde
Associate Professor,
(Pharmaceutical Chemistry)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY
NIGDI, PUNE-44
(ACCREDITED BY NAAC)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “**SYNTHESIS OF GRAPHENE QUANTUM DOTS AND THEIR APPLICATIONS**” submitted for degree of Master of Pharmacy, is the record of research work carried out by **Ms. Samiksha Sanjay Patokar** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 10/08/24
Place: Nigdi, Pune


Dr. Minal T. Harde
Research Guide



Dr. Shailaja B. Jadhav
Head of Department,
(Pharmaceutical Chemistry)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY
NIGDI, PUNE-44
(ACCREDITED BY NAAC)

CERTIFICATE BY THE HOD`

This is to certify that the thesis entitled **“SYNTHESIS OF GRAPHENE QUANTUM DOTS AND THEIR APPLICATIONS”** submitted for degree of Master of Pharmacy, is the record of research work carried out by **Ms. Samiksha Sanjay Patokar** under the guidance of **Dr. Minal T. Harde** and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 10/08/24
Place: Nigdi, Pune


Dr. Shailaja B Jadhav
HOD

**"SYNTHESIS OF NOVEL MANNICH BASES OF INDOLE
AND N-PHENYLANILINE WITH ITS MOLECULAR
DOCKING, IN SILICO ADME PROFILING, INVITRO ANTI
TUBERCULAR ACTIVITY AND CYTOTOXICITY
STUDIES"**

**Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



**By
Ms. AKANKSHA VIJAY PATIL
(B. Pharm)
In partial fulfillment, of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICAL CHEMISTRY**

**UNDER THE GUIDENCE OF
DR. AISHWARYA BALAP
(M. Pharm, PhD)
(Associate Professor Dept. of Pharmaceutical Chemistry)**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE – 44
(2023-24)**

(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE
PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **Ms. AKANKSHA VIJAY PATIL** declare that the thesis entitled, **“SYNTHESIS OF NOVEL MANNICH BASES OF INDOLE AND N-PHENYLANILINE WITH ITS MOLECULAR DOCKING, IN SILICO ADME PROFILING, INVITRO ANTI TUBERCULAR ACTIVITY AND CYTOTOXICITY STUDIES”** submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. AISHWARYA BALAP** has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

A.V.Patil

Date: 17/8/2024

Place: Nigdi, Pune

Ms. AKANKSHA VIJAY PATIL

Dr. AISHWARYA BALAP

Associate Professor,
(Pharmaceutical Chemistry)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE-44
(ACCREDITED BY NAAC)**

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled "**SYNTHESIS OF NOVEL MANNICH BASES OF INDOLE AND N-PHENYLANILINE WITH ITS MOLECULAR DOCKING, IN SILICO ADME PROFILING, INVITRO ANTI TUBERCULAR ACTIVITY AND CYTOTOXICITY STUDIES**" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Ms. AKANKSHA VIJAY PATIL** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 17/8/2024
Place: Nigdi, Pune

Dr. AISHWARYA BALAP
Research Guide

Dr. Shailaja B. Jadhav
Head of Department,
(Pharmaceutical Chemistry)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE-44
(ACCREDITED BY NAAC)**

CERTIFICATE BY THE HOD

This is to certify that the thesis **"SYNTHESIS OF NOVEL MANNICH BASES OF INDOLE AND N-PHENYLANILINE WITH ITS MOLECULAR DOCKING, IN SILICO ADME PROFILING, INVITRO ANTI TUBERCULAR ACTIVITY AND CYTOTOXICITY STUDIES"** submitted for degree of Master of Pharmacy, is the record of research work carried out by **MS. AKANKSHA VIJAY PATIL** under the guidance of **DR. AISHWARYA BALAP** and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 17/8/2024
Place: Nigdi, Pune


Dr. Shailaja B Jadhav
HOD



"Network Pharmacology, Molecular Docking, Dynamics Simulation and Biological Evaluation to Explore the Potential Immunomodulatory Activity of Carica Papaya"

Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE



By
Ms. MADAR R. PRATIKSHA
(B. Pharm)

In partial fulfillment, of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICAL CHEMISTRY

Under the guidance of
DR. SOMDATTA Y. CHAUDHARI
(M. Pharm, Ph.D.)
Associate Professor

DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44

(2023-24)

(ACCREDITED BY NAAC and NBA)



(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE
PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. MADAR R. PRATIKSHA declare that the thesis entitled, "*Network Pharmacology, Molecular Docking, Dynamics Simulation and Biological Evaluation to Explore the Potential Immunomodulatory Activity of Carica Papaya*" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of **DR. SOMDATTA Y. CHAUDHARI** has not formed the basis for the award of any degree or diploma or other titles in this or any other University.


Ms. Madar Pratiksha Ramesh

Date: 10/08/2024

Place: Nigdi, Pune

DR. SOMDATTA Y. CHAUDHARI

Associate professor

(Pharmaceutical chemistry)

P.E.S. Modern College of pharmacy,

Yamunanagar, nigdi, pune- 44



MODERN COLLEGE OF PHARMACY

NIGDI, PUNE-44

(ACCREDITED BY NAAC & NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, , *“Network Pharmacology, Molecular Docking, Dynamics Simulation and Biological Evaluation to Explore the Potential Immunomodulatory Activity of Carica Papaya”* submitted for the degree of Master of Pharmacy, is the record of research work carried out by Ms. **MADAR R. PRATIKSHA** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 10/08/2024

Place: Nigdi, Pune

Dr. Somdatta Y. Chaudhari
Research Guide



**"DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF
TRICYANOFURAN DERIVATIVE
AS ANTICANCER AGENT"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
**Ms. Gayatri Bhagwan Jagdale
(B. Pharm)**
In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICAL CHEMISTRY**

**UNDER THE GUIDANCE OF
Dr. Shailaja B Jadhav.
(M. Pharm, PhD)
(HOD of Dept. of Pharmaceutical Chemistry)**

**DEPARTMENT OF PHARMACEUTICAL CHEMISTRY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE – 44
(2022-24)**

Scanned
18/02/24



~~(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE
PUNE UNIVERSITY)~~

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. Gayatri Bhagwan Jagdale declare that the thesis entitled, "Design, Synthesis and Biological Evaluation of Tricyanofuran Derivatives as anticancer agent" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Shailaja B. Jadhav has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 17/8/24

Ms. Gayatri Bhagwan Jagdale

Place: Nigdi, Pune

Dr. Shailaja B. Jadhav Head of
Department, (Pharmaceutical
Chemistry)

*P.E.S. Modern College of Pharmacy, Yamuna
Nagar, Nigdi, Pune- 44*




**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE-44
(ACCREDITED BY NAAC)**

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “**DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF TRICYANOFURAN DERIVATIVES AS ANTICANCER AGENT**” submitted for degree of Master of Pharmacy, is the record of research work carried out by **Ms. Gayatri Bhagwan Jagdale** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 17/8/24
Place: Nigdi, Pune


Dr. Shailaja B Jadhav
(Guide)



**“Synthesis and Biological Activity of Novel 2, 5-Disubstituted
Benzimidazole Derivatives As Antiviral Agent ”**

Thesis submitted to
**THE FACULTY SCIENCE AND TECHNOLOGY
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
**Ms. Monika Vasant Rathod .
B. Pharm**

In partial fulfillment, of
The requirements for the degree of

**MASTER OF PHARMACY IN
PHARMACEUTICAL CHEMISTRY**

**UNDER THE GUIDENCE OF
Dr. Vitthal V. Chopade
M. Pharm. PhD**

(Professor in Dept. of Pharmaceutical Chemistry)

**DEPARTMENT OF PHARMACEUTICAL
CHEMISTRY**

**PROGRESS EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY, NIGDI, PUNE
(2023-2024)**



(BEST COLLEGE AWARDED BY SAVITRIBAI PHULE
PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **Monika Vasant Rathod** declare that the thesis entitled, "Synthesis and Biological Activity of Novel 2, 5-Disubstituted Benzimidazole Derivatives As Antiviral Agent" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Vitthal .V Chopade** has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 17/08/2024


Ms. Monika Vasant Rathod

Place: Nigdi, Pune



Prof. Dr. Vitthal V Chopade

Professor in Pharmaceutical Chemistry

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune- 44



**MODERN COLLEGE OF
PHARMACYNIGDI, PUNE-44
(ACCREDITED BY NAAC & NBA)**

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled “Synthesis and Biological Activity of Novel 2, 5-Disubstituted Benzimidazole Derivatives As Antiviral Agent ” submitted for degree of Master of Pharmacy, is the record of research work carried out by **Dr. Vitthal V. Chopade** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date:

Place: Nigdi, Pune

**Dr. Vitthal V. Chopade
Research Guide**



Dr. Shailaja B. Jadhav
Head of Department, (Pharmaceutical Chemistry)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC)

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled "Synthesis and Biological Activity of Novel 2, 5-Disubstituted Benzimidazole Derivatives As Antiviral Agent " **submitted for degree of Master of Pharmacy, is the record of research work carried out by Ms . Monika Vasant Rathod under the guidance of Dr. Vitthal V. Chopade and that has not formed the basis for the award of any degree or diploma or other titles in this or any other University.**

Date:
Place: Nigdi, Pune


Dr. Shailaja B Jadhav
HOD



"To Explore GSK3-Beta Inhibitory Activity of Some Indole Derivatives."

Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By

MS. SNEHAL TUKARAM BORUDE

(B. Pharm)

In partial fulfilment of the requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACEUTICAL CHEMISTRY

Under the Guidance of

DR. SOMDATTA CHAUDHARI

(M. Pharm, PhD)

Associate Professor

Department of Pharmaceutical Chemistry

**DEPARTMENT OF PHARMACEUTICAL
CHEMISTRY**

PROGRESSIVE EDUCATION SOCIETY'S

**MODERN COLLEGE OF PHARMACY, NIGDI,
PUNE-44**

(ACCREDITED BY NAAC and NBA)

(2023-24)

Examined
by
12/5/24

(BEST COLLEGE AWARDED BY SAVITRIBAI
PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **MS. SNEHAL TUKARAM BORUDE**, declare that the thesis entitled, "**To Explore GSK3-Beta Inhibitory Activity of Some Indole Derivatives.**" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Somdatta Chaudhari** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/8/24

Place: Nigdi, Pune
BORUDE

A handwritten signature in black ink, appearing to read 'S. Borude'.

MS. SNEHAL TUKARAM



Dr. Somdatta Chaudhari

Associate Professor

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, **“To Explore GSK3-Beta Inhibitory Activity of Some Indole Derivatives”** is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **MS. SNEHAL TUKARAM BORUDE** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/8/24

Place: Nigdi, Pune

Dr. P. D. Chaudhari

Dr. Somdatta Chaudhari

Research Guide



Dr. Shailaja B. Jadhav
Head of Department of Pharmaceutical Chemistry
PES, Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, **“To Explore GSK3-Beta Inhibitory Activity of Some Indole Derivatives”** is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Snehal Tukaram borude** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17/08/20
Place: Nigdi, Pune

Dr. Shailaja B. Jadhav
Head of Department
Modern College of Pharmacy,
Nigdi, Pune.



**"DESIGN & SYNTHESIS OF NOVEL PIPERAZINO-
INDOLE DERIVATIVES AS GSK-3 BETA INHIBITOR
FOR TREATMENT OF ALZHEIMER'S DISEASE"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

MS. SHARADHA SHIVAJI TIKATE

(B. Pharm)

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

IN

PHARMACEUTICAL CHEMISTRY

Under the Guidance of

Dr. Somdatta Y. Chaudhari

(M. Pharm, PhD)

Associate professor

**DEPARTMENT OF PHARMACEUTICAL
CHEMISTRY**

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY, NIGDI,
PUNE-44**

(ACCREDITED BY NAAC and NBA)

(2023-24)

Examined
BS
17/07/24



(BEST COLLEGE AWARDED BY SAVITRIBAI
PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, **Ms. Sharadha Shivaji Tikate**, declare that the thesis entitled, "**Design & synthesis of novel piperazino-indole derivatives as GSK-3 beta inhibitor for treatment of alzheimer's disease**" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. Somdatta Y. Chaudhari** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17-8-24

Place: Nigdi, Pune

Ms. Sharadha Shivaji Tikate



Dr. Somdatta Y. Chaudhari

Associate Professor

Department of Pharmaceutical Chemistry

P.E.S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "**Design & Synthesis of novel piperazino-indole derivatives as GSK-3 beta inhibitor for treatment of Alzheimer's disease**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Sharadha Shivaji Tikate** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17-8-24

Place: Nigdi, Pune

Dr. Somdatta Y. Chaudhari

Research Guide



Dr. Shailaja B. Jadhav
Head of Department of Pharmaceutical Chemistry
PES, Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44



MODERN COLLEGE OF PHARMACY NIGDI, PUNE-44
(ACCREDITED BY NAAC AND NBA)

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "**Design and Synthesis of Novel Piperazino-Indole Derivatives as GSK3-Beta Inhibitor for Treatment of Alzheimer's Disease.**" is submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Ms. Sharadha Shivaji Tikate** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 17-8-24
Place:

Dr. Shailaja B. Jadhav
Head of Department
Modern College of Pharmacy,
Nigdi, Pune.



**DEVELOPMENT OF QUERCETIN LOADED
PRONIOSOMES AND CELECOXIB FOR ANTI
ARTHRITIC ACTIVITY**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Ms. Divya Madhukar Dhamankar
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACEUTICS**
UNDER THE GUIDANCE OF
Dr. S.S. Pimple

M. Pharm PhD, Professor,
Department of Pharmaceutics
&

Dr. U.S. Desai
M. Pharm PhD, Assistant Professor,
Department of Pharmaceutics

DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION
SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.
(2023 – 2024)



**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44.
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Ms. Divya Madhukar Dhamankar declare that the thesis entitled, "DEVELOPMENT OF QUERCETIN LOADED PRONIOSOMES AND CELECOXIB FOR ANTI ARTHRITIC ACTIVITY.", submitted by me for degree of 'Master of Pharmacy' is the record of work carried out by me under the guidance of Dr. S.S. Pimple & Dr. U.S. Desai and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 31/7/24

Ms. Divya Madhukar Dhamankar

Place: Pune



**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY**

Nigdi, Pune-44.



**CERTIFICATE BY THE GUIDE
PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)**


Dr. S.S. Pimple
Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT OF QUERCETIN LOADED PRONIOSOMES AND CELECOXIB FOR ANTI ARTHRITIC ACTIVITY"**, submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **MS. DIVYA MADHUKAR DHAMANKAR** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:

Place: Nigdi, Pune


Dr. S.S. Pimple
Research Guide

*Examined -
Dr. S.S. Pimple
12/08/2024*



PES's Society's
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE- 44
(ACCREDITED BY NAAC)



Dr. ATUL A. PHATAK
Head of Department & Professor,
(PHARMACEUTICS),
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "DEVELOPMENT OF QUERCETIN LOADED PRONIOSOMES AND CELECOXIB FOR ANTI ARTHRITIC ACTIVITY." submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by Ms. Divya Madhukar Dhamankar under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/4/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD

**"FORMULATION AND EVALUATION OF PRESS
COATED PULSATILE RELEASE TABLET OF
TRANDOLAPRIL"**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
Ms. Geetanjali Pandurang More
(B. Pharm.)**

**In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN**

**PHARMACEUTICS
UNDER THE GUIDANCE OF
Dr. Smita S. Pimple**

(M. Pharm PhD)

Professor

(Department of Pharmaceutics)

DEPARTMENT OF PHARMACEUTICS

**PROGRESSIVE EDUCATION
SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.**

(2023 – 2024)

(ACCREDITED BY NAAC & NBA)



**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44,
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Ms. Geetanjali Pandurang More declare that the thesis entitled, “**Formulation and evaluation of press coated pulsatile release tablet of Trandolapril.**”, submitted by me for degree of ‘**Master of Pharmacy**’ is the record of work carried out by me under the guidance of Dr. Smita S. Pimple and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 31 / 07 / 24 *Geetanjali*
Ms. Geetanjali Pandurang More

Place: Pune



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

CERTIFICATE BY THE GUIDE

DR. SMITA S. PIMPLE

Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

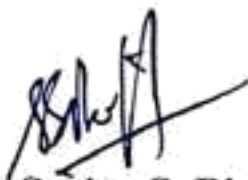
CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "**Formulation and evaluation of press coated pulsatile release tablet of Trandolapril.**", submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **MS. Geetanjali Pandurang More** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:

31/07/24

Place: Nigdi, Pune


Dr. Smita S. Pimple

(M. Pharm. Ph.D.)

Research Guide

Examined:
Research
12/08/2024



**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)**


DR. ATUL A. PHATAK

Head of Department & Professor,
(PHARMACEUTICS),
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "Formulation and evaluation of press coated pulsatile release tablet of Trandolapril." submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **MS. GEETANJALI PANDURANG MORE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD



**"FORMULATION AND EVALUATION OF ITRACONAZOLE
TOPICAL SPRAY WITH ALOE VERA GEL"**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Mr. Onkar Vishnu Surwase
(B. Pharm.)
In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICS
UNDER THE GUIDANCE OF
Dr. U.C.Galgatte

Professor,
(M. Pharm PhD)
Department of Pharmaceutics

DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE OF PHARMACY, NIGDI, PUNE-44.

(2023-2024)
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Signature
17/08/24



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COLLEGE OF PHARMACY, NIGDI, PUNE-44.
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Mr. declare that the thesis entitled, **FORMULATION AND EVALUATION OF ITRACONAZOLE TOPICAL SPRAY WITH ALOE VERA GEL**", Submitted by me for the degree of 'Master of Pharmacy' is the record of work carried out by me under the guidance of **Dr. U.C. Galgatte** and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date:


Mr. Onkar Vishnu Suewase

Place: Pune



P. E. Society's
MODERN COLLEGE OF PHARMACY
Nigdi, pune-44




PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

Dr. U.C.Galgatte
Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "FORMULATION AND EVALUATION OF ITRACONAZOLE TOPICAL SPRAY WITH ALOE VERA GEL", submitted for the degree of Master of Pharmacy (Pharmaceutics), Mr. Onkar Vishnu Surwase carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Nigdi, Pune


Dr. U. C. Galgatte
(M. Pharm. Ph.D.)
Research Guide



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(ACCREDITED BY NAAC & NBA)**

Dr. ATUL A. PHATAK
Head of Department & Professor,
(PHARMACEUTICS),
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "FORMULATION AND EVALUATION OF ITRACONAZOLE TOPICAL SPRAY WITH ALOE VERA GEL", submitted for the degree of Master of Pharmacy (Pharmaceutics), does Mr. Onkar Vishnu Surwase carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD

**FORMULATION AND DEVELOPMENT OF
ZEOLITE LOADED ALBENDAZOLE
MUCOADHESIVE TABLET"**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
Mr. BHAND NITIN MACHHINDRA
(B. Pharm.)
In partial fulfillment of
The requirements for the degree of
MASTER OF
PHARMACY
IN
Pharmaceutics**

**Under the Guidance of
Dr. SMITA S. PIMPLE
(M. Pharm. PhD)
Professor
(Dept. of Pharmaceutics)**

**DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44
(2023-24)**



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MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Mr. BHAND NITIN MACHHINDRA declare that the thesis entitled "FORMULATION AND DEVELOPMENT OF ZEOLITE LOADED ALBENDAZOLE MUCOADHESIVE TABLET" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. SMITA S. PIMPLE has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

Date: 31/7/24
Place: Pune

Mr. BHAND NITIN MACHHINDRA



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)

Dr. SMITA S. PIMPLE

Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "FORMULATION AND DEVELOPMENT OF ZEOLITE LOADED ALBENDAZOLE MUCOADHESIVE TABLET" submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **Mr. BHAND NITIN MACHHINDRA** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Examiner.
Dr. Smita S. Pimple
12/07/24

Dr. Smita S. Pimple

Date: 31/07/24
Place: Pune

Dr. Smita S. Pimple
Research Guide



**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)**

Dr. ATUL A. PHATAK

**Head of Department & Professor,
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P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.**

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "FORMULATION AND DEVELOPMENT OF ZEOLITE LOADED ALBENDAZOLE MUCOADHESIVE TABLET" submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **Mr. BHAND NITIN MACHHINDRA** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Pune


Dr. Atul A. Phatak
HOD



**"FORMULATION & EVALUATION OF TRANSDERMAL
PATCH FOR INFLAMMATION"**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
Mr. Harshal Rajesh Patil
(B. Pharm.)**

**In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICS**

**UNDER THE GUIDANCE OF
Dr. N. M. Gaikwad**

(M. Pharm PhD), Associate professor,

**DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.**

**(2023 – 2024)
(ACCREDITED BY NAAC & NBA)**





PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.

(2023 – 2024)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Mr. Harshal Rajesh Patil declare that the thesis entitled,
**“FORMULATION & EVALUATION OF TRANSDERMAL
PATCH FOR INFLAMMATION”** submitted by me for the degree of
'Master of Pharmacy' is the record of work carried out by me under the
guidance of **Dr. N. M. Gaikwad** and has not formed the basis for the
award of any degree or Diploma or Other titles in this or any other
University.

*Examined -
12/08/2024*

Harshal R. Patil

Date: 31/07/2024

Mr. Harshal R. Patil

Place: Pune




**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)**

Dr. N. M. GAIKWAD
Assistant Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy, Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **“FORMULATION & EVALUATION OF TRANSDERMAL PATCH FOR INFLAMMATION”** submitted for the degree of **Master of Pharmacy (Pharmaceutics)**, does **Mr. Marshal Rajesh Patil** carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Nigdi, Pune


Dr. N. M. Gaikwad
(M. Pharm. Ph.D.)
Research Guide



**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)**

Dr. ATUL A. PHATAK

**Head of Department & Professor, (PHARMACEUTICS),
P.E.S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune-44.**

CERTIFICATE BY THE HOD

This is to certify that the research presented in this thesis entitled,
**“FORMULATION & EVALUATION OF TRANSDERMAL
PATCH FOR INFLAMMATION”** For Master of Pharmacy
(Pharmaceutics) is a record of bonafide research work carried out by
Mr. Harshal Rajesh Patil Under the guidance of **Dr. N. M. Gaikwad**
at Modern College of Pharmacy, Nigdi, Pune- 411044, during the
academic year 2023-2024.

Date: 31/7/24
Place: Nigdi, Pune

**Dr. Atul A. Phatak
HOD**

**"DEVELOPMENT OF DRUG DELIVERY SYSTEM FOR THE
PLANT EXTRACT FOR A TREATMENT OF SKIN INFECTION
CAUSED BY MRSA"**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By
Ms. Sakshi Rajendra Sonawane
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICS
UNDER THE GUIDANCE OF
Dr. U.C.Galgatte

Professor,
(M. Pharm PhD)
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Dr.D.L.Visokar
Assistant professor,
Department of Pharmaceutics

DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S MODERN
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(2023-2024)
(ACCREDITED BY NAAC & NBA)

Handwritten signature and date: 17/08/24



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(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

Ms. Sakshi Rajendra Sonawane declare that the thesis entitled, "Development of Drug Delivery System for the Plant Extract for a Treatment of Skin Infection Caused by MRSA", Submitted by me for the degree of 'Master of Pharmacy' is the record of work carried out by me under the guidance of **Dr. U.C.Galgatte** and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date:

Place: Pune


Ms. Sakshi Rajendra Sonawane



**P. E. Society's
MODERN COLLEGE OF PHARMACY
Nigdi, pune-44**




**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
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Professor,
Department of Pharmaceutics,
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Nigdi, Pune- 44.**

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **“Development of Drug Delivery System For the Plant Extract For a Treatment of Skin Infection Caused By MRSA”**, submitted for the degree of **Master of Pharmacy (Pharmaceutics)**, **Ms. Sakshi Rajendra Sonawane** carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

**Date:
Place: Nigdi, Pune**


**Dr. U.C.Galgatte
(M. Pharm. Ph.D.)
Research Guide**



**P. E. Society's
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Nigdi, Pune-44**




**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
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CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "Development of Drug Delivery System for the Plant Extract for a Treatment of Skin Infection Caused by MRSA", submitted for the degree of Master of Pharmacy (Pharmaceutics), does Ms. Sakshi Rajendra Sonawane carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24 -
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD



**"TOPICAL PREPARATION OF EUNICIA GRACILITERRA
EXTRACT FOR ITS ANTIMICROBIAL ACTIVITY"**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Ms. Vaishnavi Suresh More
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICS

UNDER THE GUIDANCE OF
Dr. Upendra C. Galgatte
Professor

(M. Pharm. Ph.D.)

Department of Pharmaceutics

DEPARTMENT OF PHARMACEUTICS
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(2023 – 2024)
(ACCREDITED BY NAAC & NBA)



Signature
17/08/24



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COLLEGE OF PHARMACY, NIGDI, PUNE-44.
(2023 – 2024)**


SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Ms. Vaishnavi Suresh More declare that the thesis entitled, **“TOPICAL PREPARATION OF *PUNICA GRANATUM* L. EXTRACT FOR ITS ANTIMICROBIAL ACTIVITY”** submitted by me for degree of ‘Master of Pharmacy’ is the record of work carried out by me under the guidance of Dr. Upendra C. Galgatte and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date:


Ms. Vaishnavi Suresh More

Place: Nigdi, Pune




PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
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Dr. Upendra C. Galgatte
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Department of Pharmaceutics,
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Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "**TOPICAL PREPARATION OF *PUNICA GRANATUM L. EXTRACT* FOR ITS ANTIMICROBIAL ACTIVITY**" submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by MS. VAISHNAVI SURESH MORE under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Nigdi, Pune


Dr. Upendra C. Galgatte
(M. Pharm. Ph.D.)
Research Guide



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

Dr. ATUL A. PHATAK

Head of Department & Professor,
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CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "**TOPICAL PREPARATION OF PUNICA GRANATUM L. EXTRACT FOR ITS ANTIMICROBIAL ACTIVITY**" submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **MS. VAISHNAVI SURESH MORE** under the guidance of **Dr. U. C. Galgatte** at Modern College of Pharmacy, Nigdi, Pune-411044, during the academic year 2023-2024.

Date:

16/8/24

Place: Nigdi, Pune

Dr. Atul A. Phatak
HOD
(M. Pharm, Ph.D.)



DEVELOPMENT AND EVALUATION OF
CHEWABLE TABLET USING CO-PROCESSED
EXCIPIENT

Criteria 1 - Curricular Aspects



Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Mr. Ganesh Shivanand Desai

(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACEUTICS**

UNDER THE GUIDANCE OF
Dr. K. S. Shaikh

(M. Pharm. Ph D.)

Professor,
Department of Pharmaceutics

Dr. U. S. Desai

(M. Pharm. Ph D.)

Assistant Professor
(Dept. of Pharmaceutics)

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(2023 – 2024)

Examinee
Rahul
13/8/24



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(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I **Mr. Ganesh Shivanand Desai** declare that the thesis entitled, **“Development and Evaluation of Chewable Tablet using Co-Processed Excipient”**, submitted by me for my degree of **‘Master of Pharmacy’** is the record of work carried out by me under the guidance of **Dr. K. S. Shaikh** and **Dr. U. S. Desai** and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 10/08/24

Place: Nigdi, Pune


Mr. Ganesh Shivanand Desai

P. E. Society's
MODERN COLLEGE OF PHARMACY
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CERTIFICATE BY THE GUIDE
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Dr. K. S. Shaikh
Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"Development and Evaluation of Chewable Tablet using Co-Processed Excipient"**, submitted for the degree of **Master of Pharmacy (Pharmaceutics)**, is the record of research work carried out by **Mr. Ganesh Shivanand Desai** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 10/08/24
Place: Nigdi, Pune

Dr. K. S. Shaikh
Research Guide



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MODERN COLLEGE OF PHARMACY,
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(ACCREDITED BY NAAC)**



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Yamunanagar, Nigdi, Pune-44.

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Date: 10/08/24
Place: Nigdi, Pune

Dr. Atul A. Phatak
HOD



**"ENHANCING GUT HEALTH BY FORMULATING BILAYER
TABLET OF PROBIOTIC AND ANTIBACTERIAL DRUG"**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Ms. Pooja Bharat Salgar
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICS**

UNDER THE GUIDANCE OF
Dr. A. A. Phatak

(M. Pharm PhD), HOD & professor,
Department of Pharmaceutics

DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S MODERN
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(2023 – 2024)
(ACCREDITED BY NAAC & NBA)



Examined
13/8/24



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COLLEGE OF PHARMACY, NIGDI, PUNE 41,

(2023 – 2024)



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Ms. Pooja Bharat Salgar declare that the thesis entitled, **“ENHANCING GUT HEALTH BY FORMULATING BILAYER TABLET OF PROBIOTIC AND ANTIBACTERIAL DRUG”** submitted by me for degree of **‘Master of Pharmacy’** is the record of work carried out by me under the guidance of **Dr. A. A. Phatak** and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 31/07/24

Place: Pune

Ms. Pooja Bharat Salgar



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

Dr. ATUL A. PHATAK

Professor,

Department of Pharmaceutics,

P.E.S. Modern College of Pharmacy,

Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"ENHANCING GUT HEALTH BY FORMULATING BILAYER TABLET OF PROBIOTIC AND ANTIBACTERIAL DRUG"** submitted for degree of **Master of Pharmacy (Pharmaceutics)**, is the record of research work carried out by **Ms. Pooja Bharat Salgar** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune



Dr. A. A. Phatak
(M. Pharm. Ph.D.)
Research Guide



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

Dr. ATUL A. PHATAK

Head of Department & Professor,
(PHARMACEUTICS),
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

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Date:

31/08/24

Place: Nigdi, Pune

Dr. Atul A. Phatak
HOD



**"DEVELOPMENT AND EVALUATION OF
MESOPOROUS CARRIER BASED DRONEDARONE
HCL FORMULATION"**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Ms. Kalyani Shantaram Ghotekar
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN

PHARMACEUTICS

Under the Guidance of
Dr. A. A. PHATAK

(M. Pharm PhD, Professor and Head,
Department of Pharmaceutics)

DEPARTMENT OF PHARMACEUTICS

**PROGRESSIVE EDUCATION
SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.**

(2023 – 2024)

(ACCREDITED BY NAAC & NBA)

Examined
[Signature]
13/8/24



**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44,
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Ms. Kalyani Shantaram Ghotekar declare that the thesis entitled, “Development and Evaluation of Mesoporous Carrier Based Dronedaronе HCl Formulation.”, submitted by me for degree of ‘Master of Pharmacy’ is the record of work carried out by me under the guidance of

Dr. A. A. Phatak has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 31/07/2024

Kalyani

Ms. Kalyani Shantaram Ghotekar

Place: Pune



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

DR. A. A. PHATAK
Professor, & Head
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **“Development and evaluation of mesoporous carrier based dronedarone HCl formulation.”**, submitted for degree of **Master of Pharmacy (Pharmaceutics)**, is the record of research work carried out by **MS. Kalyani Shantaram Ghotekar** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune

Dr. A. A. Phatak
(M. Pharm. Ph.D.)
Research Guide



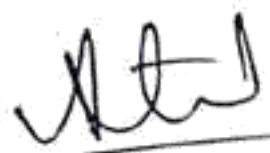
PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

DR. ATUL A. PHATAK
Head of Department & Professor,
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P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, **“Development and evaluation of mesoporous carrier based dronedarone HCl formulation.”** submitted for degree of **Master of Pharmacy (Pharmaceutics)**, is the record of research work carried out by **Ms. Kalyani Shantaram Ghotekar** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD



**"DEVELOPMENT AND EVALUATION OF COMBINED
NANOSPONGE-BASED GEL DRUG DELIVERY FOR
PSORIASIS"**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Ms. Sneha Satish Jadhav
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICS**

UNDER THE GUIDANCE OF
Dr. N. M. Gaikwad
(M. Pharm PhD), Associate professor,

DEPARTMENT OF PHARMACEUTICS
**PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.**
(2023 – 2024)
(ACCREDITED BY NAAC & NBA)





**PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44.
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Ms. Sneha Satish Jadhav declare that the thesis entitled,
**“Development and Evaluation of Combined Nanosponge-based Gel
Drug Delivery for Psoriasis”** submitted by me for the degree of
‘Master of Pharmacy’ is the record of work carried out by me under the
guidance of **Dr. N. M. Gaikwad** and has not formed the basis for the
award of any degree or Diploma or Other titles in this or any other
University.

Ms. Sneha Satish Jadhav

Date: 31/07/2024

Place: Pune




PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

Dr. N. M. GAIKWAD
Assistant Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy, Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"Development and Evaluation of Combined Nanosponge-Based Gel Drug Delivery for Psoriasis"** submitted for the degree of Master of Pharmacy (Pharmaceutics), does Ms. Sneha Satish Jadhav carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Nigdi, Pune


Dr. N. M. Gaikwad
(M. Pharm. Ph.D.)
Research Guide

Examiner:

Sneha Satish Jadhav



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)


Dr. ATUL A. PHATAK

Head of Department & Professor, (PHARMACEUTICS),
P.E.S. Modern College of Pharmacy, Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research presented in this thesis entitled,
**“Development and Evaluation of Combined Nanosponge-Based Gel
Drug Delivery for Psoriasis”** For Master of Pharmacy
(Pharmaceutics) is a record of bonafide research work carried out by
Ms. Sneha Satish Jadhav Under the guidance of **Dr. N. M. Gaikwad** at
Modern College of Pharmacy, Nigdi, Pune- 411044, during the
academic year 2023-2024.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD



**DEVELOPMENT AND EVALUATION OF UFASOMAL
LOADED GEL FOR FUNGAL INFECTION**

Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES



SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE

BY
MR. VISHAL ANNASAHEB VARE

In partial fulfillment of The
requirements for the degree of

**MASTER OF PHARMACY
IN
PHARMACEUTICS**

Under the guidance of
DR. PRAVEEN D. CHAUDHARI
(M. Pharm, PhD)

Professor & Principal

CO-GUIDE

DR. UJWALA S. DESAI

(M. Pharm, PhD)

Assistant Professor

**DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY, NIGDI, PUNE-44.
(ACCREDITED BY NACC AND NBA)
(2023 – 2024)**



**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44.
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Mr. Vishal Annasaheb Vare declare that the thesis entitled, "Development and Evaluation Ufasomal Loaded Gel for Fungal Infection.", submitted by me for degree of 'Master of Pharmacy (PHARMACEUTICS)' is the record of work carried out by me under the guidance of Dr. P.D. Chaudhari & Dr. U.S. Desai and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 21/7/24

Mr. Vishal Annasaheb Vare

Place: Pune



P. E. Society's
MODERN COLLEGE OF PHARMACY
Nigdi, Pune-44.



(ACCREDITED BY NAAC)

Dr. P.D. Chaudhari
Professor & Principal,
Department of Pharmaceutics
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "Development and Evaluation Ufasomal Loaded Gel for Fungal Infection." submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **MR. VISHAL ANNASHEB VARE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. P.D. Chaudhari
Research Guide

Examined & Approved
12/08/2024

PES's Society's
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE- 44



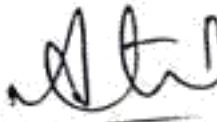
(ACCREDITED BY NAAC)

Dr. ATUL A. PHATAK
Head of Department & Professor,
(PHARMACEUTICS),
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "Development and Evaluation Ufasomal Loaded Gel for Fungal Infection." submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **Mr. Vishal Annasaheb Vare** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
(HOD)



**"FORMULATION, DEVELOPMENT AND
EVALUATION OF ANTIFUNGAL DRUG
LOADED PICKERING EMULSION"**

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**

By

Mr. Krishna Gangadhar Halne
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY
IN
PHARMACEUTICS**

Under the Guidance of

DR. KARIMUNNISA S. SHAIKH
(Professor and Head, Department of
Pharmaceutical Quality Assurance)

**DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY, NIGDI, PUNE
(ACCREDITED BY NAAC and NBA)
(2022-2024)**

*Examined
Saty
13/8/24*



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Mr. Krishna Gangadhar Halne, declares that the thesis entitled "*Formulation, Development and Evaluation of A loaded Pickering emulsion*" submitted by me for Degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Karimunnisa S. Shaikh and has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date:
Place:

Mr. Krishna G. Halne



PES's MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44

(ACCREDITED BY NAAC and NBA)

Dr. Karimunnisa S. Shaikh

Professor and Head,

Department of Pharmaceutical Quality Assurance,

P. E.S. Modern College of Pharmacy,

Nigdi, Pune-44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **"Formulation, Development and Evaluation of Antifungal drug loaded Pickering Emulsion** submitted for degree of Master of Pharmacy (Pharmaceutics), is record of research work carried out by **Mr. Krishna Gangadhar Halne** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:

Place:

Dr. Karimunnisa S. Shaikh
(Professor and Head, Department of
Pharmaceutical Quality Assurance)



**FORMULATION AND EVALUATION OF FAST DISSOLVING FILM
CONTAINING IVABRADINE HYDROCHLORIDE AND
BISOPROLOL FUMARATE**

Thesis submitted to

**THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

Mr. Shubham Sharad Deshpande
(B. Pharm.)

In partial fulfillment of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACEUTICS**
UNDER THE GUIDANCE OF

Dr. A. A. Phatak

(M. Pharm. Ph D.)

HOD

(Dept. of Pharmaceutics)

&

Dr. D. L. Visokar

(M. Pharm. Ph D.)

Assistant Professor

(Dept. of Pharmaceutics)

**DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44.**

(2023 – 2024)

[Handwritten signature]
17/08/24



~~PROGRESSIVE EDUCATION SOCIETY'S~~

MODERN COLLEGE OF PHARMACY,

NIGDI, PUNE-44.

(2023 – 2024)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Mr. Shubham Sharad Deshpande declare that the thesis entitled, “Formulation and Evaluation of fast dissolving film containing Ivabradine hydrochloride and Bisoprolol fumarate.”, submitted by me for my degree of ‘Master of Pharmacy’ is the record of work carried out by me under the guidance of Dr. A . A. Phatak and Dr. D. L. Visokar and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 31/07/24

Mr. Shubham Sharad Deshpande

Place: Pune



**P. E. Society's
MODERN COLLEGE OF PHARMACY
NIGDI, PUNE-44.**




**CERTIFICATE BY THE GUIDE
PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)**

**Dr. A. A. Phatak
Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.**

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "**Formulation and Evaluation of fast dissolving film containing Ivabradine hydrochloride and Bisoprolol fumarate**", submitted for the degree of **Master of Pharmacy (Pharmaceutics)**, is the record of research work carried out by **MR. SHUBHAM SHARAD DESHPANDE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

**Date: 31/7/24
Place: Nigdi, Pune**


**Dr. A. A. Phatak
Research Guide**



PES's Society's
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE- 44
(ACCREDITED BY NAAC)




Dr. ATUL A. PHATAK
Head of Department & Professor,
(PHARMACEUTICS),
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "Formulation and Evaluation of fast dissolving film containing Ivabradine hydrochloride and Bisoprolol fumarate." submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by Mr. SHUBHAM SHARAD DESHPANDE under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD



**“DESIGN AND DEVELOPMENT OF MUCOADHESIVE DRUG
DELIVERY SYSTEM BY USING NOVEL NATURAL POLYMER”**

**Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**By
Mr. PATHAN ADIL MUKHTAR
(B. Pharm.)**

**In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
Pharmaceutics**

**Under the Guidance of
Dr. ANURADHA G. MORE
(M. Pharm. PhD)
Associate Professor
(Dept. of Pharmaceutics)**

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE-44
(2023-24)**

SPD
17/08/24



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **Mr. PATHAN ADIL MUKHTAR** declare that the thesis entitled **“DESIGN AND DEVELOPMENT MUCOADHESIVE DRUG DELIVERY SYSTEM BY USING NOVEL NATURAL POLYMER”** submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **Dr. ANURADHA G. MORE** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

Date: 16-08-2024
Place: Pune


Mr. PATHAN ADIL MUKHTAR



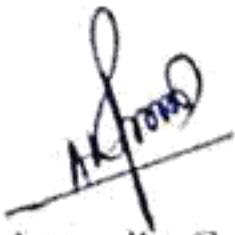
PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)

Dr. ANURADHA G. MORE
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "DESIGN AND DEVELOPMENT MUCOADHESIVE DRUG DELIVERY SYSTEM BY USING NOVEL NATURAL POLYMER" submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by Mr. PATHAN ADIL MUKHTAR under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16-08-2024
Place: Pune


Dr. Anuradha G. More
Research Guide



PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC)

Dr. ATUL A. PHATAK

Head of Department & Professor,
(PHARMACEUTICS),
P. E. S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "DESIGN AND DEVELOPMENT MUCOADHESIVE DRUG DELIVERY SYSTEM BY USING NOVEL NATURAL POLYMER" submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **Mr. PATHAN ADIL MUKHTAR** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16-08-2024
Place: Pune

Dr. Atul A. Phatak
HOD



**"DEVELOPMENT AND EVALUATION OF AN IN SITU GEL
LOADED WITH ANTI INFLAMMATORY AGENT"**

**Thesis submitted to
THE FACULTY OF SCIENCE AND TECHNOLOGY
SUBJECT: PHARMACY
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By

Miss. SONAL DATTATRAYA SABALE

B. Pharm

**In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY**

IN

Pharmaceutical Quality Assurance

Under the Guidance of

Dr. KARIMUNNISA S. SHAIKH

**(Professor and Head,
Department of Quality Assurance.)**

**PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,**

NIGDI, PUNE-44

(2023-24)

*Examined
Bath
13/8/24*



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am Miss. SONAL DATTATRAYA SABALE declare that the thesis entitled "DEVELOPMENT AND EVALUATION OF AN IN SITU GEL LOADED WITH ANTI INFLAMMATORY AGENT" submitted by me for degree of Master of Pharmacy is the record of work carried out under the guidance of Prof. DR. KARIMUNNUSA S. SHAIKH has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization.

Mrs. SONAL DATTATRAYA SABALE

Date:

Place: Pune



**PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
(ACCREDITED BY NAAC AND NBA)**

DR. KARIMUNNISA S. SHAIKH
Head of Department & Professor,
(QUALITY ASSURANCE),
P.E.S. Modern College of Pharmacy,
Yamunanagr, Nigdi, Pune-44.

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "DEVELOPMENT AND EVALUATION OF AN IN SITU GEL LOADED WITH ANTI INFLAMMATORY AGENT" submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **Miss. SONAL DATTATRAYA SABALE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Pune

Dr. KARIMUNNISA S. SHAIKH
Research Guide



PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
(ACCREDITED BY NAAC AND NBA)

DR. ATUL A. PHATAK

Head of Department & Professor,
(PHARMACEUTICS)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune- 44

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, **"DEVELOPMENT AND EVALUATION OF AN IN SITU GEL LOADED WITH ANTI INFLAMMATORY AGENT"** submitted for degree of Master of Pharmacy (Pharmaceutics), is the record of research work carried out by **Miss. SONAL DATTATRAYA SABALE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date:
Place: Pune

Dr. ATUL A. PHATAK
HOD



**"DESIGN AND DEVELOPMENT OF NOVEL- FORMULATION
IN TREATMENT OF IRON DEFICIENCY ANEMIA"**

Thesis submitted to
THE FACULTY OF
PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE



By
Mr. Swapnil Suresh Tarate
(B. Pharm.)
In partial fulfillment of
The requirements for the degree of
MASTER OF PHARMACY
IN
PHARMACEUTICS
UNDER THE GUIDANCE OF

Dr. Anuradha G. More
Associate Professor,
(M. Pharm PhD)
Department of Pharmaceutics

DEPARTMENT OF PHARMACEUTICS
PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE OF PHARMACY, NIGDI, PUNE-44.

(2023-2024)
(ACCREDITED BY NAAC & NBA)

Signature
17/08/24



**PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE OF PHARMACY, NIGDI, PUNE-44.
(2023 – 2024)**

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

Mr. Swapnil Suresh Tarate declare that the thesis entitled, “**Design and Development of Novel- Formulation In Treatment of Iron Deficiency Anemia**”, Submitted by me for the degree of ‘**Master of Pharmacy**’ is the record of work carried out by me under the guidance of **Dr. A. G. More** and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date:

Swapnil Tarate

Mr. Swapnil Suresh Tarate

Place: Pune



**P. E. Society's
MODERN COLLEGE OF PHARMACY
Nigdi, pune-44**



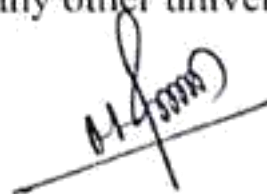
**PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)**

**Dr. A.G. More
Associate Professor,
Department of Pharmaceutics,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.**

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, **“Design and Development of Novel- Formulation In Treatment of Iron Deficiency Anemia”**, submitted for the degree of **Master of Pharmacy (Pharmaceutics)**, **Mr. Swapnil Suresh Tarate** carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

**Date:
Place: Nigdi, Pune**


**Dr. A.G. More
(M. Pharm. Ph.D.)
Research Guide**



P. E. Society's
MODERN COLLEGE OF PHARMACY
Nigdi, Pune-44




PES's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44
(ACCREDITED BY NAAC & NBA)

Dr. ATUL A. PHATAK
Head of Department & Professor,
(PHARMACEUTICS),
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune-44.

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, "Design and Development of Novel- Formulation In Treatment of Iron Deficiency Anemia", submitted for the degree of Master of Pharmacy (Pharmaceutics), does Mr. Swapnil Suresh Tarate carry out the record of research work under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 31/7/24
Place: Nigdi, Pune


Dr. Atul A. Phatak
HOD



**“ EVALUATION OF ANTIARTHRITIC ACTIVITY
OF ETHANOLIC EXTRACT OF *SOLANUM MELONGENA L.*
FRUIT BY USING FCA-INDUCED ARTHRITIS
IN EXPERIMENTAL ANIMALS.”**

**Thesis submitted to
THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



By
MISS. POOJA NANA SAWANT
(B. Pharm)

In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACOLOGY**

**UNDER THE GUIDANCE OF
DR. S.S. NIPATE**
(M. Pharm, Ph.D.)
(Professor)

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S MODERN
COLLEGE OF PHARMACY, NIGDI, PUNE - 44.**

(2023-24)



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Pooja Nana Sawant declares that the thesis entitled, “Evaluation of antiarthritic activity of ethanolic extract of *Solanum melongena* l. fruit by using FCA-induced arthritis in experimental animals.” submitted by me for the degree of **Master of Pharmacy** is the record of work carried out by me under the guidance of **Dr. S. S. Nipate** and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24

Place: Nigdi, Pune

Miss. Pooja N. Sawant




**MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44.
(ACCREDITED BY NAAC)**

Dr. S. S. Nipate
Professor,
Department of pharmacology
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, “**Evaluation of antiarthritic activity of ethanolic extract of *Solanum melongena* L. fruit by using FCA-induced arthritis in experimental animals.**” submitted for the degree of Master of Pharmacy, is the record of research work carried out by **Miss. Pooja Nana Sawant** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24
Place: Nigdi, Pune.


Dr. S. S. Nipate
Research guide



MODERN COLLEGE OF PHARMACY, NIGDI, PUNE- 44.
(ACCREDITED BY NAAC)

Dr. D. D. Bandawane

HOD and Professor,

Department of Pharmacology

P. E. S. Modern College of Pharmacy,

Yamunanagar, Nigdi, Pune – 44.

CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "Evaluation of antiarthritic activity of ethanolic extract of *Solanum melongena* l. fruit by using FCA-induced arthritis in experimental animals" submitted for the degree of Master of Pharmacy (Pharmacology), is the record of research work carried out by Miss. Pooja Nana Sawant under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16/08/24

Place: Nigdi, Pune.

Dr. D. D. Bandawane

HOD & Professor

Department of pharmacology



***"EVALUATION OF ANTI-GOUT POTENTIAL OF
HYDROETHANOLIC EXTRACT OF RUBUS ULMIFOLIUS FRUIT
USING NIOSOMES AS TARGETED DRUG DELIVERY IN
POTASSIUM OXONATE INDUCED GOUT RAT MODEL"***

Thesis submitted to
**THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE**



By
**MISS. VERNEKAR PURVA VIGHNESHWAR
(B. Pharm)**

In partial fulfillment, of
The requirements for the degree of
**MASTER OF PHARMACY IN
PHARMACOLOGY**

UNDER THE GUIDANCE OF
**DR. SONALI S. NIPATE
(M. Pharm, Ph.D.)
Professor**

**DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE - 44.
(2023-24)**



BEST COLLEGE AWARDED BY SAVITRIBAI PHULE PUNE UNIVERSITY)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Purva. V. Vernekar declare that the thesis entitled, *Evaluation of anti-gout potential of hydroethanolic extract of Rubus ulmifolius fruit using niosomes as targeted drug delivery in potassium oxonate induced gout rat model*" submitted by me for the degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. Sonali S. Nipate and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Purva.V.V.

Date 16/08/2024

Miss. Purva. V. Vernekar

Place: Nigdi, Pune



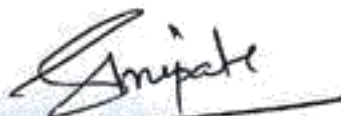
MODERN COLLEGE OF PHARMACY NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)

Dr. Sonali S. Nipate
Professor, (Pharmacology)
P.E.S. Modern College of Pharmacy,
Yamunanagar, Nigdi, Pune - 44.

CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "*Evaluation of anti-gout potential of hydroethanolic extract of *Rubus ulmifolius* fruit using niosomes as targeted drug delivery in potassium oxonate induced gout rat model*" submitted for degree of Master of Pharmacy, is the record of research work carried out by **Miss. Purva Vighneshwar Vernekar** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date 16/08/2024
Place: Nigdi, Pune


Dr. Sonali S. Nipate
Research Guide



**MODERN COLLEGE OF PHARMACY
NIGDI, PUNE - 44.
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Dr. D. D. Bandawane
Professor and HOD,
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CERTIFICATE BY THE HOD

This is to certify that the thesis entitled, "*Evaluation of anti-gout potential of hydroethanolic extract of *Rubus ulmifolius* fruit using niosomes as targeted drug delivery in potassium oxonate induced gout rat model*" submitted for degree of Master of Pharmacy, is the record of research work carried out by Miss. **Purva Vighneshwar Vernekar** under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or other titles in this or any other university.

Date 16/08/2024

Place: Nigdi, Pune

Dr. D. D. Bandawane

Professor and HOD,
Department of Pharmacology



**"Therapeutic effect of *Hylocereus undatus* seed oil on
Letrozole induced polycystic ovarian syndrome in rats."**

Thesis submitted to

THE FACULTY OF PHARMACEUTICAL SCIENCES
SAVITRIBAI PHULE PUNE UNIVERSITY,
PUNE



By

MISS. ALFIYA MAHIBUB BIRADAR

(B. Pharm)

In partial fulfilment, of

The requirements for the degree of

MASTER OF PHARMACY

IN

PHARMACOLOGY

UNDER THE GUIDANCE OF

DR. S. S. NIPATE

(Professor)

DEPARTMENT OF PHARMACOLOGY
PROGRESSIVE EDUCATION SOCIETY'S
MODERN COLLEGE OF PHARMACY, NIGDI,

PUNE - 44,

(2023-24)

SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I, Miss. Alfiya Mahibub Biradar declare that the thesis entitled, "Therapeutic effect of *Hylocereus undatus* seed oil on Letrozole induced polycystic ovarian syndrome in rats." submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of Dr. S. S. Nipate and has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Ms. Alfiya M. Biradar

Date: 16-08-24

Place: Nigdi, Pune



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This is to certify that the thesis entitled “Therapeutic effect of *Hylocereus undatus* seed oil on Letrozole induced polycystic ovarian syndrome in rats.” submitted for the degree of Master of Pharmacy, is the record of research work carried out by Miss. Alfiya Mahibub Biradar under my guidance and supervision and that it has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 16-08-24

Place: Nigdi, Pune-44

Dr. S S. NIPATE

Research guide

Professor

Department of Pharmacology



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Dr. D. D. Bandawane
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Date: 16-08-24

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Dr. D D. Bandawane
HOD & Professor
Department of Pharmacology



Criteria 1 - Curricular Aspects



Final Year B. Pharm Project Work



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Endorsement by the Principal

This is to certify that the partial research work for the dissertation entitled **"Formulation of Anti-dandruff hair oil from Datura seeds"** is a record of bonafide research work carried out by **Mohammad Sameer Rafik Shaikh** under the guidance of **Sneha N. Rashinkar** at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date:



Dr. P.D Chaudhari
Principal

P.E. S Modern College of Pharmacy
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Ex-Dean, Faculty of Pharmaceutical Sciences,
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Date: 7/5/24

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This is to certify that the thesis entitles, “Stability –Indicating HPTLC Method Development and Vlidation for Analysis of Colchicine in Bulk Drug and Tablet Dosage Form ” is are cord carried out by **MS. PRERNA DADASAHEB PARDESHI** under the guidance of **MR. SHUBHAM KHADE** at P.E.S.Modern College of Pharmacy, Nigdi, and Pune-411044.

Date:
Place:Nigdi,Pune.




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Chapter 1

Introduction



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This is to certify that the partial research work for the
dissertation entitled “

**“Herbal Formulation and Evaluation of Buccal
Patches Which Showing Anti-Ulcer Activity.”**

is a record of bonafide research work carried out by **MR.
THORAT ABHINAV SHASHIKANT** under the
guidance of **Prof. Shivraj Mane** at P.E.S Modern College
of
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Nigdi, Pune.

Date: 07/05/24




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Herbal Formulation and Evaluation of Buccal Patches Which Showing Anti-
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This is to certify that the partial research work for the dissertation entitled **"STUDY OF POTENTIAL EFFECT OF HYDROALCOHOLIC EXTRACT OF BASELLA ALBA IN GOUT ASSOCIATED CHANGES."** is a record of bonafide research work carried out by Snehal Sanjay Bagade under the guidance of Dr. Sonali S. Nipate at P.E.S Modern College of Pharmacy Nigdi, Pune.



Date: 07-05-24


Dr. P. D. Chaudhari
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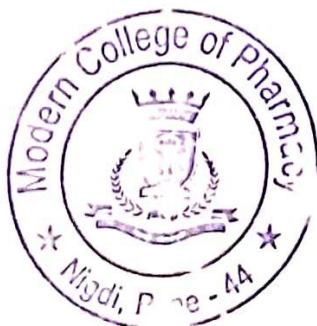
P.E. Society's
Modern College of Pharmacy, Nigdi, Pune – 44

Certificate

This is to certify that work described in this project entitled 'To study the therapeutic potential of "Macrotyloma uniflorum Verdc Seeds Extract in" PCOS related hormonal changes.' submitted in the partial fulfillment for the requirement of Bachelor of Pharmacy (Final Year B.Pharm), of Pune University, Pune was carried out in the laboratories of Modern College of Pharmacy, Nigdi, Pune 44 by Mr. Rajesh M. Gutte. under the guidance and supervision of **Dr. SONALI S. NIPATE.**

Place: Pune

Date:



Dr. P. D. Chaudhari

(Principal)



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PES'S Modern College of Pharmacy Nigdi,

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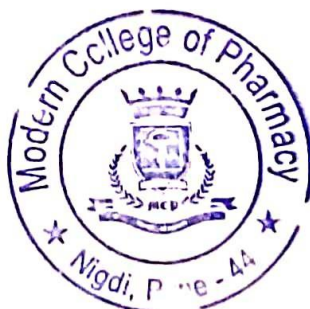
Sciences, Savitribai Phule Pune University, Pune.

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This is to certify that the partial research work for the dissertation entitled "Awareness and assessment of risk factors associated with heart failure among Indian of people: A questionnaire survey" is a record of bonafide research work carried out by Shreya Sonawane, Sayali Nagre and Pawan Pawar under the guidance of Mr. Prashant Pawar at P.E.S Modern College of Pharmacy Nigdi, Pune.

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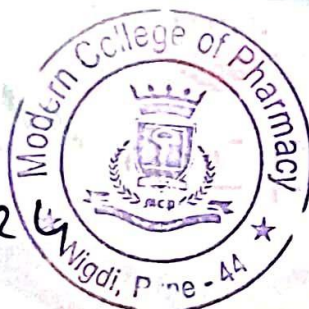


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This is to certify that the partial research work for the dissertation entitled **"Moringa Beauty : Lip Nourishment from the Seed "** is a record of bonafide research work carried out by **Ms Rutuja Ganpat Patil** under the guidance of **Ms A.R. Bhure** at P.E.S Modern College of Pharmacy, Nigdi Pune - 411044

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This is to certify that the partial research work for the dissertation entitled "**Development and evaluation of Herbal Chewing Gum Formulation**" is a record of bonafide research work carried out by **Ms. Gayatri Yogesh Dhepe** under the guidance of **Dr. A.A.Phatak** at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 07/05/24



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Place: Nigdi, Pune



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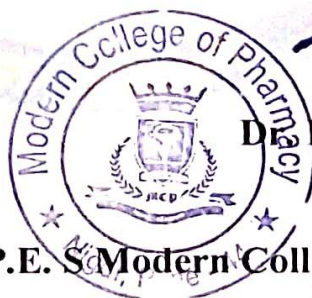


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Nigdi, Pune44 academic year 2023-24.



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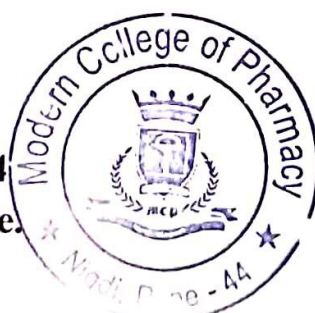



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Date: 07/05/2024
Place: Nigdi, Pune.




DR. P. D. CHAUDHARI
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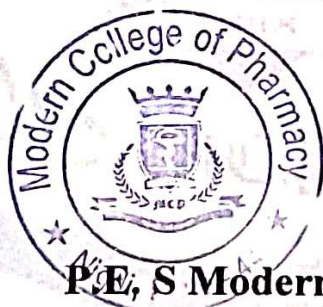


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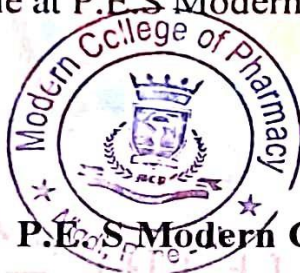


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Date:06-05-2024



Dr. P.D. Chaudhari



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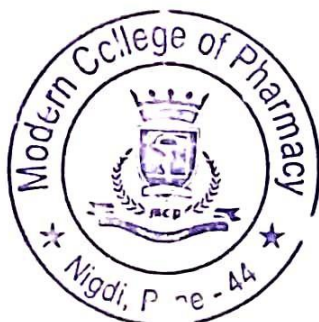
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Endorsement by the Principal

This is to certify that work described in this project entitled **“Formulation and evaluation of herbal face serum containing basil seeds gel”** submitted in the partial fulfilment for the requirement of Bachelor of Pharmacy (Final Year B. Pharm) of Savitribai Phule Pune University was carried out in laboratories of Modern College of Pharmacy, Nigdi, Pune-44 by Name under the guidance of Dr. D.D.Bandawane

Place: Nigdi,Pune

Date:



Dr. P. D. Chaudhari

Principal

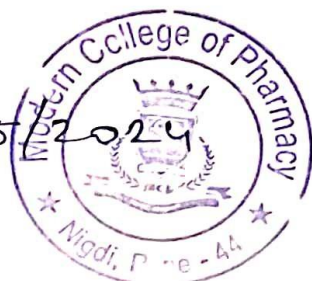
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Dr. S.B.Jadhav

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**P.E. S Modern College of Pharmacy
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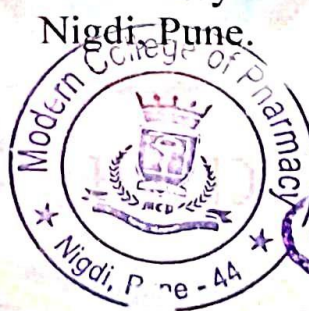


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Nigdi, Pune.



Date:

Dr. P. D. Chaudhari

Principal

P.E. S Modern College of Pharmacy
Nigdi, Pune – 44

Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.



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Principal,
P.E.S. Modern College of Pharmacy,
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Savitribai Phule Pune University, Pune.

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This is to certify that the thesis entitled **“DEVELOPMENT AND EVALUATION OF TOPICAL AMOXICILLIN HYDROGEL”** is a record of bonafide research work carried out by **Miss. Ishwari Shalikram Masram** under the guidance of **Miss. Surbhi Gupta** at Modern College of Pharmacy, Nigdi, Pune-411044.

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Place: Nigdi, Pune

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This is to certify that the project entitled, "Formulation and evaluation of polyherbal demelanizing cream" is a record of bonafide research work carried out by Ms. **Deveshree Kiran Patil** under the guidance of **Dr. D. L. Visokar** at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 7/5/24

Place:



Dr. P. D. Chaudhari

(Principal)

Principal

**P. E. S. Modern College of Pharmacy
Yamunanagar, Sector No.21, Nigdi,
Pune - 411 044**

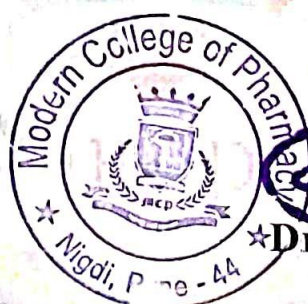


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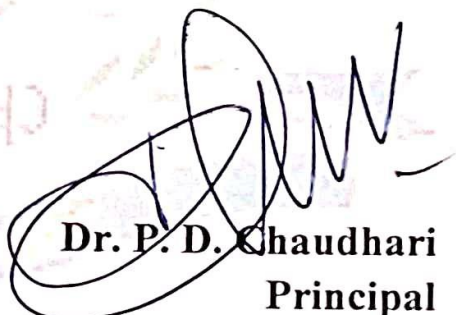


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This is to certify that the partial research work for the dissertation entitled **"FORMULATION AND EVALUATION OF HERBAL ORAL GEL"** is a record of bonafide research work carried out by **MR.GORE VIKAS MADHUKAR** under the guidance of **Dr. KALYANI S. KAKAD** at P.E.S Modern College of Pharmacy, Nigdi, Pune 44.

Date: 6/5/24


Dr. P. D. Chaudhari
Principal

P.E. S Modern College of Pharmacy
Nigdi, Pune - 44



Ex-Dean, Faculty of Pharmaceutical Sciences,
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Principal

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This is to certify that the project entitled, "Herbo-Mineral Tablet **Composition: Formulation and evaluation**" is a record of bonafide research work carried out by **Mr. Onkar Gajanan Jadhav** under the guidance of **Dr. K. S. Kakad** at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 06/05/24

Place: Nigdi



Dr. P. D. Chaudhari
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P. E. S. Modern College of Pharmacy
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Formulation and Comparative Evaluation of Anti-acne Herbal Facewash Gel



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This is to certify that the partial research work for the dissertation entitled“ **Formulation and Comparative Evaluation of Antiacne Herbal Facewash Gel**” is a record of bonafide research work carried out by Ms.Vaishnavi More, Ms. Srushti Magade and Ms. Srushti Phand under the guidance of Mrs. Suvarna A. Vadge at P.E.S Modern college of Pharmacy Nigdi, Pune.

Date:

Dr. P. D. Chaudhari
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This is to certify that the partial research work for the dissertation entitled "**Development of Herbal Anti-Acne Soap**" is a record of bonafide research work carried out by Ms. Bhumika K Bhole, Ms. Aditi Jagtap and Ms. Pooja Hatkar under the guidance of Dr. Bhushan Pimple at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 08.05.24

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Dr. PRAVEEN D. CHAUDHARI

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**Ex-Deans, Faculty of
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This is to certify that the partial research work for the dissertation entitled is a record of bonafide research work carried out by **MISS GAURI KARANDE "A Poly-herbal Composition."** and under the guidance of **DR. KALYANI S. KAKAD** at P.E.S Modern College of Pharmacy Nigdi, Pune

Date: 06/05/24

Place: Nigdi



Dr. P. D. Chaudhari

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Yamunanagar, Sector No.21, Nigdi,
Pune - 411 044**

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2023-2024**

Certificate

This is to certify that work described in this project entitled "**Development and Evaluation of Herbal Lotion**" submitted in the partial fulfilment for the requirement of Bachelor of Pharmacy (Final Year B. Pharm) of Savitribai Phule Pune University was carried out in laboratories of Modern College of Pharmacy, Nigdi, Pune-44 by Sakshi Ashok Barangule and Ashwini Jijaram Bharmal under the guidance of Dr. Mohini C. Kuchekar.

**Place: Pune
Date:**



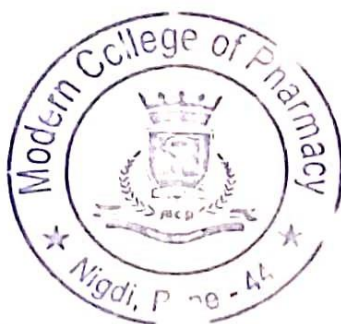
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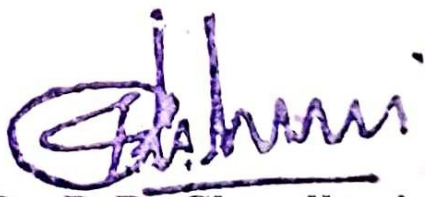
**Progressive Education Society's
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2023-2024**

Certificate

This is to certify that work described in this project entitled "**Development and Evaluation of Herbal Facewash**" submitted in the partial fulfilment for the requirement of Bachelor of Pharmacy (Final Year B. Pharm) of Savitribai Phule Pune University was carried out in laboratories of Modern College of Pharmacy, Nigdi, Pune-44 by Gaurav Pavan Kela and Pratiksha Mahadev Pawar under the guidance of Dr. Mohini C. Kuchekar.

**Place: Pune
Date:**




**Dr. P. D. Chaudhari
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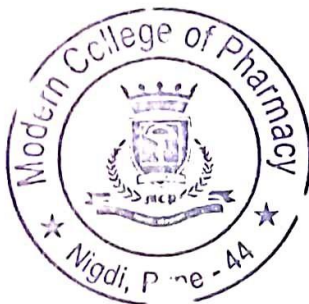


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This is to certify that the project entitled, "Molecular Docking studies of chalcone moiety as an Anti-cancer drug" is a record of bonafide research work carried out by **Ms. Neha Vijay Nevse** under the guidance of **Ms. S.N. Rashinkar** at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 7/05/23

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This is to certify that the partial research work for the dissertation entitled "**Green Synthesis of CoFe_2O_4 Nanoparticles by sol-gel auto combustion method and assessment of their antimicrobial, antioxidant and photo catalytic activity**" is a record of bonafide research work carried out by **AJINKYA NANASAHEB TANPURE** under the guidance of **Dr. Minal T Harde** at **P.E.S Modern College of Pharmacy Nigdi, Pune.**

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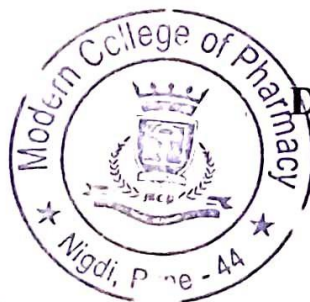


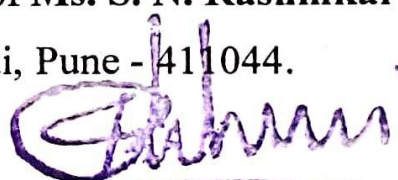
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This is to certify that the project entitled, "Molecular Docking Studies of 1, 2, 3-triazole moiety as an anti-tubercular drug" is a record of bonafide research work carried out by **Ms. Kajal Ganpat Thete** under the guidance of **Ms. S. N. Rashinkar** at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date:

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"Molecular Docking Studies of 1, 2, 3-triazole moiety as an anti-tubercular drug"



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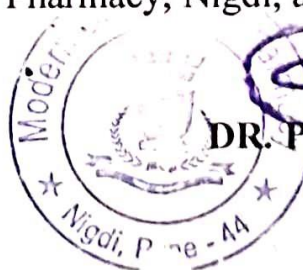
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This is to certify that the thesis entitles, "Stability –Indicating HPTLC Method Development and Vlidation for Analysis of Colchicine in Bulk Drug and Tablet Dosage Form " is are cord carried out by **MS. PRERNA DADASAHEB PARDESHI** under the guidance of **MR. SHUBHAM KHADE** at P.E.S.Modern College of Pharmacy, Nigdi, and Pune-411044.

Date:

Place:Nigdi,Pune.



DR. P. D. CHAUDHARI
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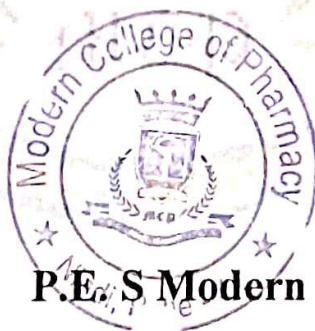



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This is to certify that the partial research work for the dissertation entitled **"FORMULATION AND EVALUATION OF BUCCAL PATCHES CONTAINING NATURAL ANTI-CARIES AGENTS"** is a record of bonafide research work carried out by Mr. Kulkarni Sarvesh Dilip under the guidance of Mr. S.V. Mane at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date:




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**Ex-Dean, Faculty of Pharmaceutical Sciences,
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Dr.P.D.Choudhari

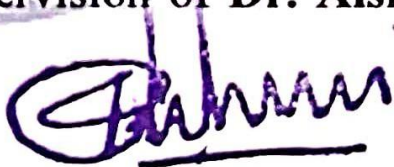
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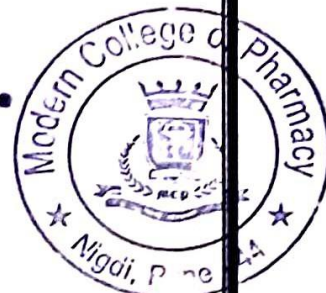
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Ex- Dena, faculty of Pharmaceutical science, Savitribai
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This certifies that the portion of the research for the dissertation with the title " To Formulate and Evaluate a Novel Hydrogel Formulation With Nutmeg Nanoemulsion for Enhanced Wound Healing Activity " was conducted by **Devang Bhokare, Pranav Jadhav, and Gautami Khinvasara** at P.E.S Modern College of Pharmacy Nigdi, Pune, under the supervision of **Dr. Aishwarya Balap.**

**Date – 11/5/24
– Nigdi , Pune.**


**Dr. P.D.Choudhari Place
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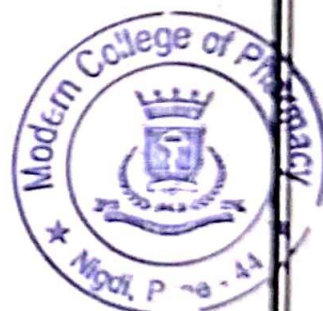
This is to certify that the thesis entitled. *"Design Formulation And Evaluation of herbal gel by using aqueous extract of medicinal plant"* submitted for the degree of Bachelor of Pharmacy. is the record of bonafide research work came out by **Ms.Chavan Chinmayee Yuvraj** under the guidance of Dr. V.V. CHOPADE at P.E.S's Modern College of Pharmacy, Nigdi, Pune-44.

Date- 07/05/2024

Place- Nigdi

Dr. Pravin D. Choudhari

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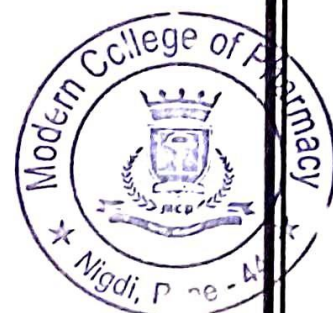
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Date-
Place-


Dr. Pravin D. Choudhari
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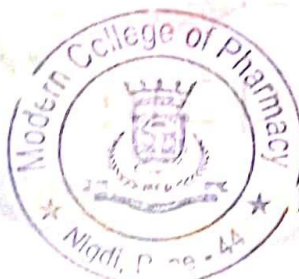



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Date:




Dr. P. D. Chaudhari

Principal

P.E. S Modern College of Pharmacy
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This is to certify that the partial research work for the dissertation entitled "*Development and experimental evaluation of silver nanoparticles with anti-microbial activity for extract of Abutilon Indicum*" is a record of bonafide research work carried out by Mr. Sanket Sanjay Dhangare under the guidance of **Dr. V. V. Chopade** at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date:

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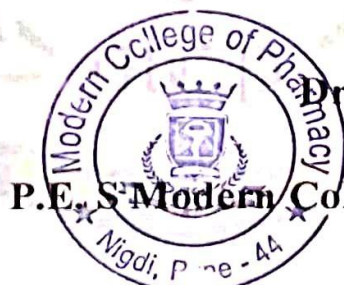



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This is to certify that the partial research work for the dissertation entitled " " is a record of bonafide research work carried out by " **biosynthesis of cobalt doped spinal nano-ferrite and their applications** under the guidance of Dr.Minal.T.Harde at P.E.S Modern College Of Pharmacy Nigdi, Pune.

Date:




Dr. P. D. Chaudhari
Principal

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This is to certify that the thesis entitled, "Formulation And Evaluation Of Transdermal Patch For Wound Healing" submitted in the partial fulfilment for the requirement of the bachelor of pharmacy (Final Year B.pharm) Savitribai Phule Pune University was carried out in the laboratories of Modern College Of Pharmacy Nigdi, Pune-44 by Name under the guidance of **Dr. P. D. Chaudhari**.



Place: Nigdi, Pune

Date: 08/05/24

Dr. P. D. Chaudhari
Principal




ENDORSEMENT BY THE PRINCIPAL

This is to certify that the project entitled, "Analytical method development and validation of antidiabetic drugs in pharmaceutical dosage form" is a record of bonafide research work carried out by Ms. **Vaishnavi Prakash Zond , Sakshi Pravin Palve And Sanika Anand Shelar** under the guidance of **Prof. Vasudha Bavadekar** at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date:




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This is to certify that the partial research work for the
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college of Pharmacy, Nigdi, Pune.

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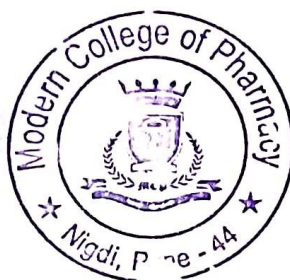
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This is to certify that work described in this project entitled 'Design, Synthesis and Molecular Docking Study of some indole derivatives as an Anti-Alzheimer's Agent' submitted in the partial fulfillment for the requirement of Bachelor of Pharmacy (Final Year B.Pharm), of Pune University, Pune was carried out in the laboratories of Modern College of Pharmacy, Nigdi, Pune 44 by **Mrs. Akash B. Pawar Mrs. Yash D. Kudale Mrs. Shreyas R. Mohite** under the guidance and supervision of **Ms. AARTI SHINGHAN**.

Place: Pune

Date:



Dr. P. D. Chaudhari

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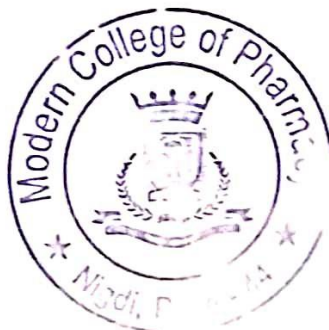
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This is to certify that work described in this project entitled '**Study the potential of Hylocereus Undatus seed oil in PCOS related hormonal changes**' submitted in the partial fulfillment for the requirement of Bachelor of Pharmacy (Final Year B.Pharm), of Pune University, Pune was carried out in the laboratories of Modern College of Pharmacy, Nigdi, Pune 44 by Mr. Rohit A. Baheti. under the guidance and supervision of **Dr. SONALI S. NIPATE**.

Place: Pune

Date:




Dr. P. D. Chaudhari

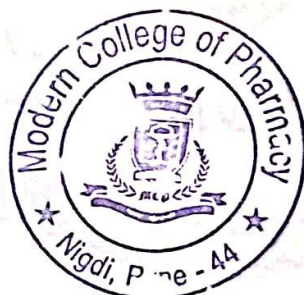
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This is to certify that the partial research work for the dissertation entitled "**Antibacterial and Antioxidant Activity of Synthesized Supermagnetic Ferrite Nanoparticles**" is a record of bonafide research work carried out by **SHRUTI BHARAT GADHAVE** under the guidance of **Dr. Minal T Harde** at **P.E.S Modern College of Pharmacy Nigdi, Pune.**



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Principal**

**P.E. S Modern College of Pharmacy
Nigdi, Pune – 44**

**Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.**



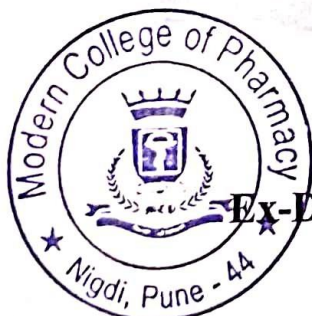
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This is to certify that the partial research work for the dissertation entitled **"FORMULATION AND EVALUATION OF ANTIFUNGAL TABLETS"** is a record of bonafide research work carried out by **Miss. Aditi Sanjay Bonde** under the guidance of **Dr. Anuradha G. More** at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 07/05/2024

Place: Nigdi, Pune



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Ex-Dean, Faculty of Pharmaceutical Sciences

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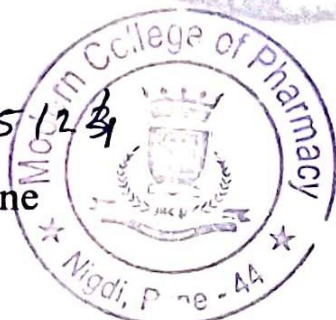


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Date: 07/05/24

Place: Nigdi, Pune



Dr. P. D. Chaudhari

(Principal)



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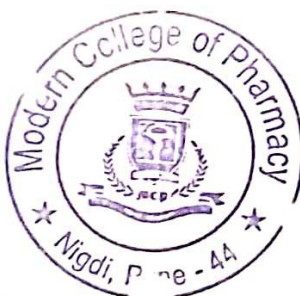



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This is to certify that the project entitled, "Formulation development and evaluation of polyherbal antifungal cream of garlic oil, cinnamon oil and anise oil" is a record of bonafide research work carried out by **Ms. Siddhi Sudhir Waghule** under the guidance of **Ms. A. R. Bhure** at Modern College of Pharmacy, Nigdi, Pune-411044.

Date: 7/5/4

Place: Nigdi, Pune




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Date: 7/5/24




Dr. P. D. Chaudhari

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P.E. S Modern College of Pharmacy

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Dr. P. D. Chaudhari
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Ex-Dean, Faculty of Pharmaceutical Sciences,
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This is to certify that the thesis entitled "**FORMULATION AND EVALUATION OF HERBAL CREAM**" is a record of bonafide research work carried out by **Mr. VISHAL SHRIPATI SARODE** under the guidance of **Miss. Surbhi Gupta** at Modern College of Pharmacy, Nigdi, Pune-411044.

Date: 07/05/2024
Place: Nigdi, Pune




Dr. P. D. Chaudhari
Principal



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Nigdi Pune-44

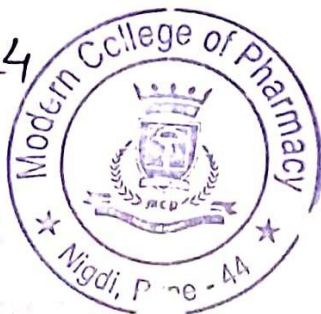


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This is to certify that the project entitled, "Formulation, Standardization and Evaluation of Polyhedral Antifungal Cream" is a record of bonafide research work carried out by Ms. Riya Shivaji Shirke. under the guidance of Dr. D. L. Visokar at Modern College of Pharmacy, Nigdi, Pune-44 1044.

Date: 7/5/24

Place:



Dr.P.D.Chaudhari

(Principal)



Formulation and evaluation of Emulgel containing Tridax procumbens for the treatment of Periodontitis

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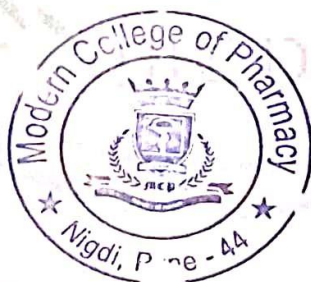



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This is to certify that the partial research work for the dissertation, **"Formulation Of Emulgel Of Tridax Procumbens For Periodontitis"** is a record of bonafide research work carried out by Jay Rajgor, Shadab Shaikh, Harshada Tandale under the guidance of Dr. Sangita kale

at P.E.S Modern College of Pharmacy
Nigdi, Pune.

Date:




Dr. P. D. Chaudhari
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**P.E. S Modern College of Pharmacy
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**Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.**



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This is to certify that the **partial research** work for the dissertation entitled "**Design and Optimization of Prednisolone Nanoparticle Loaded Fast Dissolving Film for Mouth Ulcers**" is a record of bonafide research work carried out by **Mr. Dipak Pandurang Gonde and Mr. Sohan Narendra Bharambe** under the guidance of Dr. Praveen D. Chaudhari and Dr. Ujwala S. Desai at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 06/05/24

**Dr. P. D. Chaudhari
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[Accredited by NAAC and NBA]**



ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitled, Development and evaluation of piroxicam nanoparticle laden gel for tropical drug delivery; submitted for degree of bachelor of Pharmacy, is a record of bonafide research work carried out by Mr. Bhise Aniket Vinod under the guidance of Dr. U. S. Desai at Modern College of Pharmacy, Nigdi, Pune- 411044.

Date: 06/05/24
Place: Nigdi




Dr. P. D. Chaudhari
(Principal)

Development and evaluation of nanoparticle



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Nigdi, Pune-44
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Endorsement by the Principal

This is to certify that the partial research work for the dissertation entitled” **Formulation and Evaluation of Herbal Hair Color Emulgel**” is a record of bonafide research work carried out by Ms . Vaishnavi S. Gadade under the guidance of Dr. Anuradha G. More at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date:




Dr. P. D. Chaudhari

Principal

P.E's Modern College of Pharmacy
Nigdi, Pune – 44

Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.



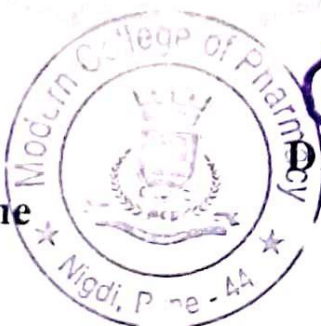
**PES's Modern College of Pharmacy
Nigdi, Pune-44
(Accredited by NAAC and NBA)**

Endorsement by the Principal

This is to certify that the partial research work for the dissertation entitled **"FORMULATION AND EVALUATION OF HERBAL SHAMPOO TABLET"** submitted in the partial fulfilment for the requirement of the bachelor of pharmacy (Final Year B.pharm) Savitribai Phule Pune University was carried out in the laboratories of Modern College Of Pharmacy Nigdi, Pune-44 by Name under the guidance of Dr. U. S. Desai.

Date: 06/05/2024

Place: Nigdi, Pune




Dr. P. D. Chaudhari

Principal



PES's Modern College of Pharmacy
Nigdi, Pune-44
(Accredited by NAAC and NBA)

Endorsement by the Principal

This is to certify that the partial research work for the dissertation entitled "THE INVESTIGATION OF NATURAL INDICATOR FROM PORTULACA OLERACEAE" is a record of bonafide research work carried out by Mr. Survase Ganesh Pandurang, Mr. Shelke Om Ganesh, Ms. Shinde Sayali Raju under the guidance of Ms. Anita V. Malusare at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 6/5/2024

Place: Nigdi, Pune



Dr. P. D. Chaudhari

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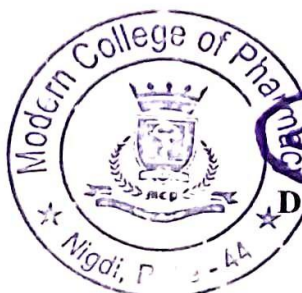
Dr. P. D. Choudhari
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Nigdi, Pune- 44
Ex-Dean, Faculty of pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the partial research work for the dissertation entitled "A Developed and validated method for Catechin hydrate and Vanillic acid from plant *Alternanthera sessile* by HPTLC technique" is a record of bonafide research work carried out by Sakshi Bharti, Sudhir Gaikwad, Vrushali Bharate under the guidance of Dr. Pallavi M. Patil at P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 7/5/23

Place: Nigdi, PUNE



Dr. P. D. Choudhari

Principal



Progressive Education Society's

Modern College of Pharmacy,

Nigdi, Pune -411044

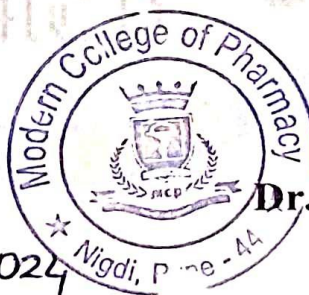
(Accredited by NAAC With A+ Grade and NBA)

Endorsement by the Principal

This is to certify that the partial research work for the dissertation entitled "**Impurity assessment, development and validation of an UFLC method for the determination of Propranolol and Propranolol impurity-A**" is a record of bonafide research work carried out by **Prachi K. Dadewad, Ashish V. Garkal and Omkar N. Jadhav** under the guidance of **Dr. Amit S. Tapkir** at P.E.S Modern College of Pharmacy, Nigdi, Pune.

Place: Nigdi, Pune

Date: 07/05/2024



Dr. P.D. Chaudhari
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Dr. P. D. Chaudhari

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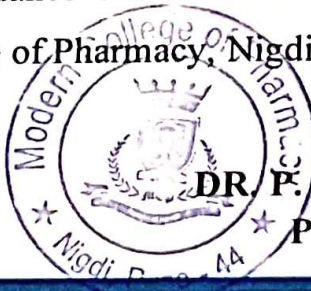


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This is to certify that the thesis entitles, "DEVELOPMENT AND VALIDATION OF STABILITY INDICATING HPTLC METHOD FOR ANALYSIS OF AZELNIDIPINE IN BULK DRUG AND TABLET DOSAGE FORM" is a record of bonafide research work carried out by Ms. PRERNA MANOHAR PATIL, Mr. RUTWIK CHANDRAKANT PAWAR under the guidance of Mr. SHUBHAM R. KHADE at P.E.S. Modern College of Pharmacy, Nigdi, and Pune-411044.

Date: 7/5/24
Place: Nigdi, Pune



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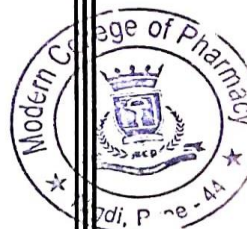
Endorsement by the Principal

This is to certify that the partial research work for the dissertation entitled **"Analytical Method Development and Validation of Olanzapine Using Hydrotrophy"** is a record of bonafide research work carried out by **Ms. Patil Tanuja Ravindra, Mr. Shendurkar Abhishek Gokul, Ms. Shingade Vaishnavi Machindra** under the guidance of Mrs. Sheetal Chaudhariat P.E.S Modern College of Pharmacy Nigdi, Pune.

Date: 07/05/2024
Place: Nigdi, Pune


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Fifth Year Pharm-D Research Project Work



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Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "To Study safety and efficacy of NEPA vs Aprepitant and Granisetron an antiemetic regimen for Prevention of ematogenic Chemotherapy Induced Nausea and Vomiting in cancer patients" for Doctor of Pharmacy is a record of bonafide research work carried out by Ms.Saakshi S. Deokar, Mr.Abhijit A. Gaikwad, Ms.Pratiksha Jadhav under the guidance of Dr. R. B. Mali at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022-2023.

Date: 07/05/2024
Place: MCOP, Nigdi



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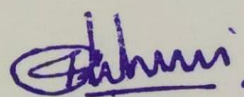
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Ex-Dean, Faculty of Pharmaceutical Sciences,
Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "*A prospective observational study aimed to assess the Pain medications in palliative care patients*" for Doctor of Pharmacy is a record of bonafide research work carried out by Miss. Aakansha Chaturvedi, Miss. Payal Holmukhe, Mr. Pritish Rane & Miss. Kanchan Shelke under the guidance of Dr. Rohini Chavan at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-2024.

Date: 07/05/2024
Place: Nigdi, Pune




Dr. P. D. Chaudhari
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" A prospective observational study aimed to assess the pain medications in palliative care patients."



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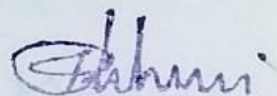
Dr. P. D. Chaudhari
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Savitribai Phule Pune University, Pune.

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This is to certify that the research work presented in the thesis entitled **“Evaluation of Drug Reutilization Strategies for Unused drugs to analyze Cost conserved and prevention of drug waste in healthcare settings”** submitted for degree of Doctor of Pharmacy, is the record of research work carried out by **Ms. Vishakha Karanjule, Ms. Payal Khape, Ms. Tallini Lokhande, Ms. Anushka Thombare** under the guidance of **Dr. R. B, Mali** at **P.E.S. Modern College of Pharmacy, Nigdi, Pune-44** during the academic year 2023-2024.

Date: 06/05/2024
Place: MCOP, Nigdi




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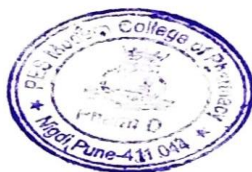
Ex-Dean, Faculty of Pharmaceutical Sciences, Savitribai
Phule Pune University, Pune.

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This is to certify that the research presented in this thesis entitled "*To assess the antifungal resistance pattern and antifungal treatment profile in yeasts infections: Antifungal stewardship approach*" for the Doctor of Pharmacy is record of bonafide research work carried out by Ms. Siddhi R. Dhawade, Ms. Sharmda A. Dhonde, Ms. Akshya Meher, and Mr. Yash Patil under the guidance of Dr. Mayuri S. Khaparade at P.E.S.Modern Collage of Pharmacy, nigdi, Pune 44 during academic year 2023-24.

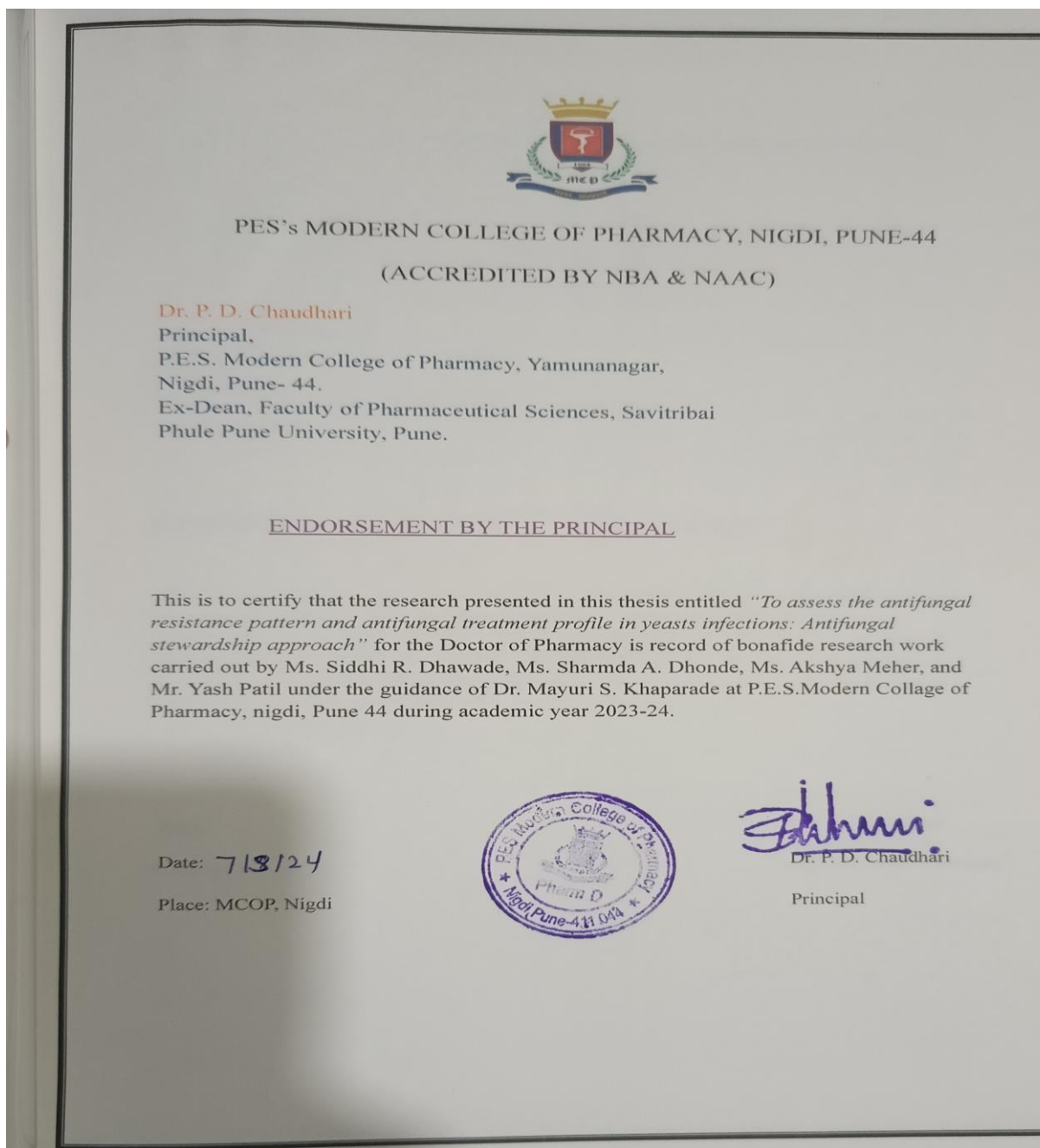
Date: 7/8/24

Place: MCOP, Nigdi



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Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "Measurement of prevalence of cancer cachexia and evaluation effectiveness of appetite enhancers" for Doctor of Pharmacy is a record of bonafide research work carried out by **Mr. Shardul S. Bhange**, **Mr. Aditya N. Dalvi**, **Miss. Padmaja D. Kamble** and **Miss. Akanksha K. Undale** under the guidance of **Dr. S. B. Pawar** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022-2023.

Date: 07.05.24

Place: Nigdi

Dr. P. D. Chaudhari

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MCOP, Nigdi, Pune



Criteria 1 - Curricular Aspects





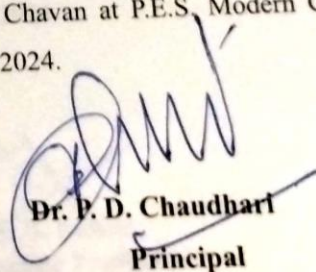
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Savitribai Phule Pune University, Pune.

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This is to certify that the research work presented in the thesis entitled "**Prospective Observational Study To Assess Prescription Appropriateness In Eldely Patients By Using Beer's Criteria**" submitted for degree of Doctor of Pharmacy, is the record of research work carried out by **Ms. Sayali S. Bakale** , **Mr. Avinash G. Gadekar**, **Ms. Kirtika R. Ghode**, **Ms. Aishwarya K. Jagtap** under the guidance of Dr. R. P. Chavan at P.E.S. Modern College of Pharmacy, Nigdi, Pune-44 during thr academic year 2023-2024.

Date: 6 may 2024
Place: MCOP, Nigdi


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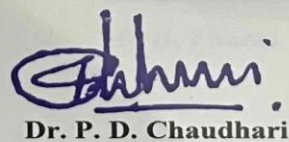
Endorsement By the Principal

This is to certify that the research presented in this thesis entitled, **“Impact of Clinical Pharmacist’s Patient Counselling on medication adherence to antihyperlipidemic drug therapy in a tertiary care hospital”** is a record of bonafide research work carried out by **Mr. Vinay Manocha, Mr. Mihir Mirani, Mr. Omkar Pande and Ms. Gauri Kale** under the guidance of **Dr. Anjali Kumbhar** at P.E.S. Modern College of Pharmacy, Nigdi, Pune-44 during the academic year 2023-2024.

Date: 06/05/2024

Place: Pune





Dr. P. D. Chaudhari

Principal
MCOP

Impact of Clinical Pharmacist's Patient Counselling on Medication Adherence to Antihyperlipidemic Drug Therapy in a Tertiary Care Hospital



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Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, “To assess the medication adherence in patients diagnosed with type 2 diabetes mellitus at a Tertiary Care Hospital” for Doctor of Pharmacy is a record of bonafide research work carried out by **Mr. Ninad Bharat Patil, Ms. Pradnya Prakash Patil, Mr. Tushar Santya** under the guidance of **Dr. S. B. Pawar** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022-2023.

Date: 8-5-24

Place: Nigdi



Dr. P.D. Chaudhari

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Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

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This is to certify that the research presented in this thesis entitled, *“To assess the incidence, risk factors and Drug Resistance Patterns of Bacterial Isolates in patients with Catheter- Associated Urinary Tract Infections (CAUTI).”* for **Doctor of Pharmacy** is a record of bonafide research work carried out by **Mr. Tushar Jha , Miss. Rutika Lavate , Mr. Tejas Parkhe** under the guidance of **Dr. M. S. Khaparde** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-2024.

Date : 07/05/2024

Place: Nigdi



P. D. Chaudhari
Dr. P. D. Chaudhari

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Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "*A Comprehensive Analysis of Clinical Pharmacy interventions: Physicians acceptance and impact on patient care outcomes*" is a record of bonafide research work carried out by Mr. Mihir S. Chachar, Mr. Sumedh S. Desai, Mr. Savata S. Dhagde, Mr. Vishal K. Dhas under the guidance of Dr. Anjali Kumbhar at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2023-2024.

Date: 06/05/2024

Place: Nigdi, Pune-44



Dr. P. D. Chaudhari
Principal
MCOP

"A Comprehensive Analysis of Clinical Pharmacy Interventions: Physicians acceptance and impact on patient care outcomes"

6



Criteria 1 - Curricular Aspects





Sixth Year Pharm-D Internship Work

Internship Details A.Y. 2023-24 Pharm D									
Roll No.	Full Name	July- Aug 2023	Sept- Oct 2023		Nov- Dec 2023	Jan- Feb 2024	March- April 2024	May - June 2024	
PD- 601	Nitesh Radhesham Agrawal	Pediatrics	Surgery		General Medicine	Orthopedics	General Medicine	General Medicine	
PD- 602	Shruti Chandrakant Akhade	Externship	Externship	General Medicine	General Medicine	Orthopedics	OBS/GYN	Pediatrics	
PD- 603	Aparna Manoj Awhad	Pediatrics	Surgery		General Medicine	OBS/GYN	General Medicine	General Medicine	
PD- 604	Sukshamta Digambar Balure	Externship	Externship	General Medicine	General Medicine	Orthopedics	OBS/GYN	Pediatrics	
PD- 605	Pratiksha Suresh Bhoite	Surgery	Paediatrics		General Medicine	OBS/GYN	General Medicine	Externship	Externship
PD- 606	Vaishnavi Vajjnath Chavan	Surgery	Paediatrics		General Medicine	OBS/GYN	General Medicine	Externship	
PD- 607	Vaishnavi Ganeshrao Deshmukh	General Medicine	OBS/GYN		Pediatrics	Surgery	General Medicine	General Medicine	
PD- 608	Swapnil Prabhakar Ghatule	General Medicine	Orthopedics		Pediatrics	Surgery	General Medicine	General Medicine	
PD- 609	Divya Bandu Hagawane	General Medicine	OBS/GYN		Pediatrics	Surgery	General Medicine	General Medicine	
PD- 610	Harshal Nandu Jadhav	General Medicine	General Medicine		Pediatrics	Surgery	Orthopedics	Externship	Externship



Criteria 1 - Curricular Aspects



<div>  <div> <div>Progressive Education Society's,</div> <div>MODERN COLLEGE OF PHARMACY, NIGDI, PUNE - 411 044</div> </div>  </div>									
PD- 611	Shweta Ramkishan Kendre	General Medicine	General Medicine	Pediatrics	General Medicine	OBS/GYN	Externship		
PD- 612	Abhishek Hanumant Khaire	General Medicine	Orthopedics	Pediatrics	General Medicine	General Medicine	Externship		
PD- 613	Shiva Laxman Khanal	General Medicine	Surgery	Orthopedics	General Medicine	Pediatrics	Externship		
PD- 614	Shubham Rajendra Kudale	General Medicine	Surgery	Orthopedics	General Medicine	Pediatrics	General Medicine		
PD- 615	Pranali Anil Kumbhar	General Medicine	General Medicine	Surgery	OBS/GYN	General Medicine	Externship		
PD- 616	Satywan Rajendra Kumbhar	General Medicine	General Medicine	Surgery	Orthopedics	General Medicine	Pediatrics		
PD- 617	Pranali Santosh Mahajan	General Medicine	General Medicine	Surgery	OBS/GYN	General Medicine	Externship		
PD- 618	Akash Rajesh Mahamuni	General Medicine	General Medicine	Surgery	Orthopedics	Externship	Pediatrics		
PD- 619	Gaurav Sunil Memane	General Medicine	General Medicine	Orthopedics	General Medicine	Surgery	Pediatrics		
PD- 620	Shraddha Jayant Nachane	Orthopedics	Pediatrics	General Medicine	General Medicine	Surgery	Externship		
PD- 621	Atharva Pushkar Nanday	Orthopedics	Pediatrics	General Medicine	Externship	Externship	Surgery	Surgery	General Medicine
PD- 622	Vaishnavi Manoj Panchariya	Pediatrics	General Medicine	Externship	OBS/GYN	Surgery	Surgery		
PD- 623	Esha Alpesh Patel	OBS/GYN	Pediatrics	General Medicine	General Medicine	Surgery	Externship		
PD- 624	Vedant Prakash Patil	Orthopedics	Surgery	General Medicine	Externship	Externship	Pediatrics		
PD- 625	Muskan Riyaz Radhanpura	Orthopedics	Surgery	General Medicine	General Medicine	Pediatrics	Externship		



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PD- 626	Rachita Sanjeev Ranasubhe	External internship	General Medicine	General Medicine	OBS/GYN	Orthopedics	Pediatrics	
PD- 627	Sumedha Anil Savane	Orthopedics	Surgery	General Medicine	General Medicine	Pediatrics	Externship	
PD- 628	Shubham Vitthal Shewale	Orthopedics	Surgery	General Medicine	General Medicine	Pediatrics	General Medicine	
PD- 629	Avinash Santosh Shinde	General Medicine	General Medicine	Orthopedic	Surgery	Pediatrics	General Medicine	
PD- 630	Sanket Prashant Talegaonkar	General Medicine	General Medicine	Orthopedic	Surgery	Pediatrics	Externship	
PD- 631	Sujata Hanumant Thokal	General Medicine	General Medicine	OBS/GYN	Pediatrics	General Medicine	Externship	
PD- 632	Sumeet Babanrao Udawant	General Medicine	General Medicine	Orthopedic	Pediatrics	General Medicine	Externship	Externship GenMedicine
PD- 633	Ashwini Anil Vare	General Medicine	General Medicine	Gynaecology	Pediatrics	General Medicine	Externship	
PD- 634	Saloni Anirudha Yadav	General Medicine	General Medicine	Gynaecology	Pediatrics	General Medicine	Externship	
PD- 635	Pranav Shivkumar Yelamkar	General Medicine	General Medicine	Orthopedic	Pediatrics	General Medicine	Surgery	
PD- 636	Jagruti Umesh Yenpure	General Medicine	General Medicine	General Medicine	Pediatrics	OBS/GYN	Externship	

HOD

Dr. Sunita Pawar



Principal

Dr. P D Chaudhari



Criteria 1 - Curricular Aspects



Third Year B. Pharm Field Visit



MODERN COLLEGE OF PHARMACY, NIGDI, PUNE National Service Scheme (Unit A-032) 2023-24

NSS SPECIAL CAMP REPORT 2023- 2024

1.	Name of activity	NSS Residential Camp
2.	Date of activity	23/01/2024 - 28/01/2024
3.	No. of total students participated	75
4.	Occasion of activity	NSS Residential Camp
5.	Inauguration by	Dr.A.S.Tapkir, Dr. V.Chopade and Sarpanch
6.	Organizing unit/ agency/ collaborating agency	P.E.S Modern Collge of Pharmacy, Yamuna Nagar Nigdi Pune Maharashtra 411044
7.	Place of activity	Jambwade, Tq.Maval,Dist.Pune
8.	Details of activity	<p>23/01/2024– Time: 9 am to 2 pm Eye screening Camp- An eye check camp was held in Jambwade, Pune, on January 23, 2024, with Dr. Mahesh Pawar from the Pune Lions Club donated his time. The event raised awareness about eye health issues, encouraged regular eye exams, and improved overall wellbeing. A routine health examination was also conducted at Zilla Parishad School, coordinated by Dr. Rajani Mali and Prof. Rohit Gurav.</p> <p>Time : 5 pm to 8 pm : Volunteers Participated in bhavgeet,haripath event with villagers</p> <p>24/01/2024 – Time: 9am to 2pm Dental Health Checkup - Dr. Saumya Sabale and Dr. Shankar Gaikwad organized an oral health examination to raise community awareness about routine dental care and encourage good oral hygiene. Their collaboration provided high-quality care and preventative practices, improving participants' oral health results and demonstrating their commitment to accessible healthcare.</p> <p>Time: 6 pm to 8 pm Art of Living Guest lecture: - Mr. Tushar Alhat, Art of Living Kenda coordinator, delivered a transformative</p>





Criteria 1 - Curricular Aspects



guest lecture on mindfulness and spiritual well-being. He emphasized inner peace, resilience, stress management, and personal growth. His expertise and passion for holistic living left a lasting impact, empowering individuals to embrace a more balanced life.

25/01/2024 – Time: 10 am to 2 Pm

Breast cancer screening - A Breast Cancer Checkup Camp was arranged on January 25, 2024 by the NSS unit of Modern College of Pharmacy, Nigdi, Pune, in collaboration with the LRCC Women Diagnostic Center and the Eions Club of Pune, Sahakarnagar. Volunteers spread awareness related to prevention of breast cancer. In addition to teaching the women how to perform self-breast examination, they also monitored their blood glucose levels during this session

Time: 2 pm to 4 pm

Menstrual Hygiene Workshop

In collaboration with "Inspiring Pink Foundation," an NGO dedicated to raising awareness about menstrual hygiene, the NSS unit of the Modern College of Pharmacy, Nigdi organized a workshop

Time: 6 pm to 8 pm

Coronation of Shivaraj Maharaj – Mr. Shubham Mote, a motivational speaker, delivered a captivating guest lecture on the coronation of Shivaji Maharaj, highlighting his leadership qualities and strategic vision. His eloquent delivery and profound understanding left a lasting impression on the audience, inspiring them to imbibe the values of courage, determination, and integrity.

26/01/2024–Time: 10 am- 3 pm

Streetplays on Various Social Issues like Social Media, Wastage of Food, Politics, How to choose Leader, Child Marriage Prevention

Time: 5 pm to 7 pm

Guest lecture by Mr. Bhushan Tarak–Guest lecture on the topic Health is wealth

27/01/2024 –Time :10 am to 2 pm

Swachh Bharat Abhiyan : Cleanliness of village

Time: 5 pm to 7 pm





Criteria 1 - Curricular Aspects



		Guest lecture on Sant Tukaram Maharaj – conducted by Shri Vitthalrao Kalokhe 28/01/2024 – Valedictory function
9.	Objectives of activity	To educate others about proper personal hygiene. Awareness of the value of maintaining a clean environment. A few steps to properly use water and prevent wasting. To raise awareness among girls' parents about the importance of education for females. Empowering women and girls to advocate for their rights. to educate people about the value of trees, personal cleanliness, and the environment.
10.	Outcome of activity	In Swachh Bharat Abhiyan, the complete residential area of the villagers was cleaned. Many students were engaged in tree plantation and cleanliness drive. More than 100 villagers underwent the health checkup and individual patient counseling session where they were provided with an idea about their overall health, and also advised with some non- pharmacological remedies for their complaints. 150 sanitary napkins were distributed to the females residing in the village area, and they were counseled by the volunteers regarding maintaining safe and hygienic practices during menstruation.
11.	Summary of activity	7 Days residential NSS camp was successfully conducted at Jambwade ,Tq.Maval,Dist.Pune
12.	Activity co-coordinator	Prof. R.M.Gurav Dr. R.B. Mali





Criteria 1 - Curricular Aspects





Criteria 1 - Curricular Aspects







Criteria 1 - Curricular Aspects




Dr. R. B. Mali
NSS Programme Officer


Mr. R. M. Gurav
NSS Programme Officer




Dr. P. D. Chaudhari
Principal
Modern College of Pharmacy
Nigdi, Pune - 411044



Criteria 1 - Curricular Aspects



MODERN COLLEGE OF PHARMACY, NIGDI, PUNE National Service Scheme (Unit A-032) 2023-24

NSS SPECIAL WINTER CAMP: 2023 – 2024

22/01/2024 to 28/01/2024 at Jambawade, Maval, Pune

ATTENDANCE SHEET : DAY 1: MONDAY : 22/01/2024

Sr. No.	Name of Volunteer	Morning	Evening
1	Aaditya Vinayak Gaikwad	<u>Aaditya</u>	<u>Aaditya</u>
2	Aditi Ambadas Pathade	<u>Aditi</u>	<u>Aditi</u>
3	Aditya Kumar Kasar	<u>Aditya</u>	<u>Aditya</u>
4	Aditya Laxman Babhalkar	<u>Aditya</u>	<u>Aditya</u>
5	Aditya Santoshrao Pathak	<u>Aditya</u>	<u>Aditya</u>
6	Aishwarya Narharirao Pande	<u>Aishwarya</u>	<u>Aishwarya</u>
7	Akanksha Sanjay Aglave	<u>Akanksha</u>	<u>Akanksha</u>
8	Akash Baburao Pawar	<u>Akash</u>	<u>Akash</u>
9	Akshay Chandrakant Karpe	<u>Akshay</u>	<u>Akshay</u>
10	Akshaya Suresh Meher	<u>Akshaya</u>	<u>Akshaya</u>
11	Anish Arun Gaikwad	<u>Anish</u>	<u>Anish</u>
12	Ankita Pralhad Khaire	<u>Ankita</u>	<u>Ankita</u>
13	Atharva Praful Joshi	<u>Atharva</u>	<u>Atharva</u>
14	Bhargav Bapu Jagtap	<u>Bhargav</u>	<u>Bhargav</u>
15	Chaitanya Madhukar Mali	<u>Chaitanya</u>	<u>Chaitanya</u>
16	Darshan Shivaji Darvesh	<u>Darshan</u>	<u>Darshan</u>





Criteria 1 - Curricular Aspects



Sr. No.	Name of Volunteer	Morning	Evening
17	Deepali Shrikrushna Gosavi ✕	<u>Gosavi</u>	<u>Gosavi</u>
18	Devendra Sanjay Dudhade ✕	<u>Dudhade</u>	<u>Dudhade</u>
19	Dhramjeet Brundaban Nayak	<u>Dayale</u>	<u>Dayale</u>
20	Digvijay Bharat Mane ✕	<u>Mane</u>	<u>Mane</u>
21	Geetanjali Narayan Bhale ✕	<u>Bhale</u>	<u>Bhale</u>
22	Girish Pramod Funde ✕	<u>Funde</u>	<u>Funde</u>
23	Girish Sudesh Patil ✕	<u>Patil</u>	<u>Patil</u>
24	Harsh Ganpati Wadekar	<u>Wadekar</u>	<u>Wadekar</u>
25	Hrshikesh Anil Nikam	<u>(H)</u>	<u>(H)</u>
26	Jaie Ramdas Zore ✕	<u>Zore</u>	<u>Zore</u>
27	Jivan Kantilal Adsul ✕	<u>Jivan</u>	<u>Jivan</u>
28	Kalyan Babasaheb Nage	<u>Kalyan</u>	<u>Kalyan</u>
29	Khushi Kailas Wankhede ✕	<u>K. Wankhede</u>	<u>K. Wankhede</u>
30	Kirti Subhash Savali	<u>Savali</u>	<u>Savali</u>
31	Kunal Gajanan Barge ✕	<u>KBarge</u>	<u>KBarge</u>
32	Laasyaratna Durgaprasad Pagadala	<u>Pagadala</u>	<u>Pagadala</u>
33	Mahesh Digambar Raut ✕	<u>Raut</u>	<u>Raut</u>
34	Mahesh Rajkumar Reddy ✕	<u>Reddy</u>	<u>Reddy</u>
35	Mansi Santosh Thigale	<u>Thigale</u>	<u>Thigale</u>
36	Neha Vijay Nevse	<u>Nevse</u>	<u>Nevse</u>
37	Nikita Nanasahab Nigade ✕	<u>Nikita</u>	<u>Nikita</u>
38	Omkar Nandkumar Jadhav	<u>Jadhav</u>	<u>Jadhav</u>
39	Omkar Ravindra Sawant ✕	<u>Sawant</u>	<u>Sawant</u>





Criteria 1 - Curricular Aspects



Sr. No.	Name of Volunteer	Morning	Evening
40	Omkar Shantaram Tavhare ✕		
41	Pooja Shankar Hatkar		
42	Prafull Venkatesh Kamjalge		
43	Prathamesh Rajesh Panzade		
44	Prathamesh Sunil Mali ✕		
45	Prerna Manohar Patil		
46	Purva Munjaji Korde		
47	Rani Dhondiba Dagade		
48	Sagar Sandipan Solanke		
49	Sakshi Kishor Ghundre		
50	Sakshi Pravin Palve		
51	Sandesh Bhausaheb Pawar		
52	Sanket Dattatray Bhosale ✕		
53	Sanket Sanjay Dhangare		
54	Satsang Anantrao Kumthekar		
55	Shailesh Harishchandra Kendre		
56	Shivai Sunil Botre		
57	Shivam Sunil Phasale		
58	Shreyas Raghunath Mohite		
59	Shweta Mohan Mhetre ✕		
60	Srushti Samir Phand		
61	Swapnil Vijaykumar Patil		
62	Tushar Rajabhau Varat ✕		





Criteria 1 - Curricular Aspects



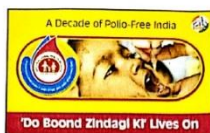
Sr. No.	Name of Volunteer	Morning	Evening
63	Vaibhav Narayan Pawar	<u>Vaibh.</u>	<u>Vaibh.</u>
64	Vaibhavi Ganesh Deshmukh	<u>Vaibh.</u>	<u>Vaibh.</u>
65	Vaishnavi Dadarao More	<u>Amore</u>	<u>Amore</u>
66	Vaishnavi Pramod Atole	<u>Amore</u>	<u>Amore</u>
67	Vaishnavi Santosh Burukale	<u>Burukale</u>	<u>Burukale</u>
68	Vaishnavi Vishnu Shirke	<u>Shirke</u>	<u>Shirke</u>
69	Vidya Dilip Chaudhari	<u>Chaudh.</u>	<u>Chaudh.</u>
70	Vikas Madhukar Gore	<u>Gore</u>	<u>Gore</u>
71	Vinayakashish Pradiprao Kulkarni	<u>Kulkarni</u>	<u>Kulkarni</u>
72	Vishal Shripati Sarode	<u>Sarode</u>	<u>Sarode</u>
73	Yash Balkrushna Kulkarni	<u>Kulkarni</u>	<u>Kulkarni</u>
74	Yashraj Ravindra Dhamale	<u>Dhamale</u>	<u>Dhamale</u>
75	Yuvraj Babu Jadhav	<u>Yuvraj</u>	<u>Yuvraj</u>




NSS Programme Officer
Programme Officer
National Service Scheme (NSS)
Modern College of Pharmacy
Nigdi, Pune - 411044



Second, Third, Fourth, Sixth Year Pharm.D Polio Camp Field Work



MODERN COLLEGE OF PHARMACY, NIGDI, PUNE
Pulse Polio Vaccination Drive 2023- 2024

1.	Name of activity	Pulse Polio Vaccination Drive
2.	Date of activity	03/03/2024- 08/03/2024
3.	Time	9 AM to 5 PM
4.	No. of total students participated/beneficiaries	118/11000
5.	Occasion of activity	Pulse Polio Eradication Campaign
6.	Organizing unit/ agency/ collaborating agency	Modern college of Pharmacy and PCMC in collaboration with WHO , World Polio eradication Programme 2024, State Government and the Government of India.
7.	Place of activity	Sane Chowk, Mhetre vasti, More vasti, Chikhali
8.	Objectives of activity	Pulse polio eradication programme aspires to reach even children in remote communities through an improved social mobilisation plan. Not a single child should miss the immunization and leaving no chance of polio occurrence.
9.	Outcome of activity	The program enhanced immunization infrastructure and raised awareness about the importance of vaccination. Door-to-door campaigns ensured that millions of children were vaccinated, including in remote and high-risk areas. Programme improved surveillance systems to monitor and respond to outbreaks of polio and other diseases. The program created a vast network of trained healthcare workers and volunteers.
10.	Summary of activity	PharmD students from the Modern College of Pharmacy actively participated in the Pulse Polio Vaccination Campaign conducted from March 3 to March 8, 2024. A total of 118 students were involved in the campaign, during which



Criteria 1 - Curricular Aspects







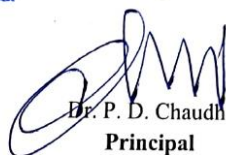
Criteria 1 - Curricular Aspects




		approximately 11,000 children were vaccinated. The initiative was organized by the Pimpri Chinchwad Municipal Corporation (PCMC) in collaboration with the World Health Organization (WHO), the World Polio Eradication Programme 2024, the State Government, and the Government of India.
11.	Activity co-coordinator	Dr. R.B. Mali, Dr.S.B.Pawar


Dr. R. B. Mali
Activity Coordinator


Dr. S. B. Pawar
HOD (Dept.of PharmD)


Dr. P. D. Chaudhari
Principal


Pimpri Chinchwad Municipal Corporation
Group No.21, Yamuna Nagar, Nigdi,
Pune - 411 004





Criteria 1 - Curricular Aspects



Pulse Polio Vaccination Drive 2024

Date : 03/03/2024- 08/03/2024

Attendance Sheet

Sr.no	Name of the Volunteer	Class	Signature
1)	Nitesh Radhesham Agrawal	6 th PharmD	<i>Nitesh Agrawal</i>
2)	Shruti Chandrakant Akhade	6 th PharmD	<i>Shruti Akhade</i>
3)	Aparna Manoj Awhad	6 th PharmD	<i>Aparna Awhad</i>
4)	Sukshamta Digambar Balure	6 th PharmD	<i>Sukshamta Balure</i>
5)	Pratiksha Suresh Bhoite	6 th PharmD	<i>Pratiksha Bhoite</i>
6)	Vaishnavi Vaijnath Chavan	6 th PharmD	<i>Vaishnavi Chavan</i>
7)	Vaishnavee Ganeshrao Deshmukh	6 th PharmD	<i>Vaishnavee Deshmukh</i>
8)	Swapnil Prabhakar Ghatule	6 th PharmD	<i>Swapnil Ghatule</i>
9)	Divya Bandu Hagawane	6 th PharmD	<i>Divya Hagawane</i>
10)	Harshal Nandu Jadhav	6 th PharmD	<i>Harshal Jadhav</i>
11)	Shweta Ramkishan Kendre	6 th PharmD	<i>Shweta Kendre</i>
12)	Abhishek Hanumant Khaire	6 th PharmD	<i>Abhishek Khaire</i>
13)	Shiva Laxman Khanal	6 th PharmD	<i>Shiva Khanal</i>
14)	Shubham Rajendra Kudale	6 th PharmD	<i>Shubham Kudale</i>
15)	Pranali Anil Kumbhar	6 th PharmD	<i>Pranali Kumbhar</i>
16)	Satywan Rajendra Kumbhar	6 th PharmD	<i>Satywan Kumbhar</i>
17)	Pranali Santosh Mahajan	6 th PharmD	<i>Pranali Mahajan</i>
18)	Akash Rajesh Mahamuni	6 th PharmD	<i>Akash Mahamuni</i>
19)	Gaurav Sunil Memane	6 th PharmD	<i>Gaurav Memane</i>
20)	Shraddha Jayant Nachane	6 th PharmD	<i>Shraddha Nachane</i>
21)	Rachita Sanjeev Ranasubhe	6 th PharmD	<i>Rachita Ranasubhe</i>
22)	Sumedha Anil Savane	6 th PharmD	<i>Sumedha Savane</i>
23)	Shubham Vitthal Shewale	6 th PharmD	<i>Shubham Shewale</i>
24)	Avinash Santosh Shinde	6 th PharmD	<i>Avinash Shinde</i>
25)	Sanket Prashant Talegaonkar	6 th PharmD	<i>Sanket Talegaonkar</i>
26)	Sujata Hanumant Thokal	6 th PharmD	<i>Sujata Thokal</i>
27)	Sumeet Babanrao Udawant	6 th PharmD	<i>Sumeet Udawant</i>
28)	Ashwini Anil Vare	6 th PharmD	<i>Ashwini Vare</i>
29)	Saloni Anirudha Yadav	6 th PharmD	<i>Saloni Yadav</i>
30)	Pranav Shivkumar Yelamkar	6 th PharmD	<i>Pranav Yelamkar</i>
31)	Jagruti Umesh Yenpure	6 th PharmD	<i>Jagruti Yenpure</i>
32)	Aakansha Devendra Chaturvedi	5 th PharmD	<i>Aakansha Chaturvedi</i>
33)	Payal Sudhakar Khape	5 th PharmD	<i>Payal Khape</i>
34)	Payal Ganpat Holmukhe	5 th PharmD	<i>Payal Holmukhe</i>
35)	Sayali Shivraj Bakale	5 th PharmD	<i>Sayali Bakale</i>
36)	Akshaya Suresh Meher	5 th PharmD	<i>Akshaya Meher</i>
37)	Saakshi Shrikant Deokar	5 th PharmD	<i>Saakshi Deokar</i>
38)	Vishakha Vinayak Karanjule	5 th PharmD	<i>Vishakha Karanjule</i>
39)	Anushka Bhau Thombare	5 th PharmD	<i>Anushka Thombare</i>
40)	Kirtika Rangnath Ghode	5 th PharmD	<i>Kirtika Ghode</i>
41)	Sharmada Ananda Dhonde	5 th PharmD	<i>Sharmada Dhonde</i>



Criteria 1 - Curricular Aspects



42)	Sidhhi Rajendra Dhawade	5 th PharmD	<u>Sidhhi</u>
43)	Aditya Navnath Dalvi	5 th PharmD	<u>Aditya</u>
44)	Abhijit Atmaram Gaikwad	5 th PharmD	<u>Abhijit</u>
45)	Savata Sanjay Dhadge	5 th PharmD	<u>Sanjay</u>
46)	Avinash Gitaram Gadekar	5 th PharmD	<u>Avinash Gadekar</u>
47)	Tushar Santya Bendga	5 th PharmD	<u>Tushar Bendga</u>
48)	Omkar Harihar Pande	5 th PharmD	<u>Omkar</u>
49)	Vishal Khandu Dhas	5 th PharmD	<u>Vishal Dhas</u>
50)	Shardul Santoshrao Bhange	5 th PharmD	<u>Shardul</u>
51)	Pritish Vijay Rane	5 th PharmD	<u>Pritish R</u>
52)	Yash Anil Patil	5 th PharmD	<u>Yash</u>
53)	Mihir Bharatbhai Mirani	5 th PharmD	<u>Mihir Mirani</u>
54)	Nikhil S. Joshi	4 th PharmD	<u>Nikhil</u>
9 55)	Shailesh H. Kendre	4 th PharmD	<u>Shailesh</u>
56)	Mrudul M. Kulkarni	4 th PharmD	<u>Mrudul</u>
57)	Pratiksha Kulkarni	4 th PharmD	<u>Pratiksha</u>
58)	Sakshi R. Latey	4 th PharmD	<u>Sakshi</u>
59)	Tanvi S. Madane	4 th PharmD	<u>Tanvi madane</u>
60)	Karishma V. Manikar	4 th PharmD	<u>Karishma</u>
61)	Anushka G. Tayade	4 th PharmD	<u>Anushka Tayade</u>
62)	Shruti Moharkar	4 th PharmD	<u>Shruti</u>
63)	Shrayalijay Singh	4 th PharmD	<u>Shrayaj</u>
64)	Tejas G. Sonawane	4 th PharmD	<u>Tejas</u>
65)	Ankit Dilip Jadhao	3 rd PharmD	<u>Ankit</u>
66)	Yuvraj Bapu Jadhav	3 rd PharmD	<u>Yuvraj</u>
67)	Satsang Anantrao Kumthekar	3 rd PharmD	<u>Satsang</u>
68)	Niranjan Satish Hingane	3 rd PharmD	<u>Niranjan</u>
69)	Vasundhara Namdevrao Deosarkar	3 rd PharmD	<u>V.N. Deosarkar</u>
70)	Shivai Sunil Botre	3 rd PharmD	<u>Shivai</u>
71)	Yash Sunil Aher	3 rd PharmD	<u>Yash</u>
72)	Siddhi Santosh Dhawade	3 rd PharmD	<u>Siddhi</u>
73)	Vaishnavi santosh burkale	3 rd PharmD	<u>Burkale</u>
74)	Aaditya Vinayak Gaikwad	3 rd PharmD	<u>Aaditya</u>
75)	Neerav Kumar Motwani	3 rd PharmD	<u>Neerav</u>
76)	Shweta Shirish Nagare	3 rd PharmD	<u>Shweta</u>
77)	Shweta Bhoyar	3 rd PharmD	<u>Shweta</u>
78)	Prafull Venkatesh Kamjalge	3 rd PharmD	<u>Prafull</u>



Criteria 1 - Curricular Aspects




79)	Aniket Pramod Waghmode	3 rd PharmD	Aniket
80)	Mansi Santosh Thigale	3 rd PharmD	Mansi
81)	Kirti Subhash Savali	3 rd PharmD	Kirti
82)	Nikita Babasaheb Sanap	3 rd PharmD	Nikita
83)	Laasya Ratna Pagadala	3 rd PharmD	Laasya
84)	Aarya Ajay Bargal	3 rd PharmD	Aarya
85)	Harshada Swami	3 rd PharmD	Harshada
86)	Harsh Ganpati Wadekar	3 rd PharmD	Harsh
87)	Srusti Nitin Sonawane	3 rd PharmD	Srusti
88)	Soham Dattakumar Misal	3 rd PharmD	Soham
89)	Shreyan yogesh chavan	3 rd PharmD	Shreyan
90)	Rani Dhondiba Dagade	3 rd PharmD	Rani
91)	Shreeparna Kaustav Bhattacharya	3 rd PharmD	Shreeparna
92)	Kanchan Arvind Shelke	3 rd PharmD	Kanchan
93)	Akanksha Kishor Undale	3 rd PharmD	Akanksha
94)	Keeyya Aundhakar	2 nd PharmD	Keeyya
95)	Kimaya Bhoir	2 nd PharmD	Kimaya
96)	Shravan Chauhan	2 nd PharmD	Shravan
97)	Kajal Chavan	2 nd PharmD	Kajal
98)	vaishnavi Chavan	2 nd PharmD	Vaishnavi
99)	Shravani Chindarkar	2 nd PharmD	Shravani
100)	Darshan Darvesh	2 nd PharmD	Darshan
101)	Shrutika Dhongade	2 nd PharmD	Shrutika
102)	Shruti Hate	2 nd PharmD	Shruti
103)	Shruti Ingle	2 nd PharmD	Shruti
104)	Keren Jadhav	2 nd PharmD	Keren
105)	Ayush Kale	2 nd PharmD	Ayush
106)	Vanshika Lulla	2 nd PharmD	Vanshika
107)	Deepali Mahala	2 nd PharmD	Deepali
108)	Muskaan Navale	2 nd PharmD	Muskaan
109)	Dharamjeet Nayak	2 nd PharmD	Dharamjeet
110)	Aryan Patil	2 nd PharmD	Aryan
111)	Devang Sadamate	2 nd PharmD	Devang
112)	Yash Sadamate	2 nd PharmD	Yash
113)	Sanskriti Vijay Tapke	2 nd PharmD	Sanskriti
114)	Ashlesha Shere	2 nd PharmD	Ashlesha
115)	sagar solanke	2 nd PharmD	Sagar
116)	Shruti Sutar	2 nd PharmD	Shruti




Criteria 1 - Curricular Aspects



117)	Mitali Warang	2 nd PharmD	<u>Mitali Warang</u>
118)	Mayur Warde	2 nd PharmD	<u>Mayur Warde</u>


Dr. R. B. Mali
Activity Coordinator


Dr. S.B. Pawar
HOD (Dept. of PharmD)

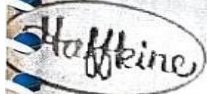

Dr. P.D. Chaudhari
Principal

Principal
P. E. S. Modern College of Pharmacy
Yamunanagar, Sector No.21, Nigdi,
Pune - 411 044





Third Year B.Pharm Industrial Training



Haffkine Bio-Pharmaceutical Corporation Ltd.

(A Govt. Of Maharashtra undertaking)

PIMPRI, PUNE - 411 018, PHONE (020) 27422206, 27421945, FAX : (020) 27420209

Regd Office : Acharya Dande Marg, Parel, Mumbai - 400 012, [INDIA]

TELEX : 24129320-23 PUR : 24142564 MPT : 24146419 GRAM : HAFKINE Mumbai - 400 012, TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/490

Date: 21.07.2023

CERTIFICATE

This is to certify that, **Mr. Yash Dattatray Kudale** student of Final Year B. Pharmacy, PES's Modern College of Pharmacy, Nigdi, Tal- Haveli, Dist- Pune- 411044 has successfully completed his one month industrial training from 21/06/2023 to 21/07/2023 at Haffkine Bio-Pharmaceutical Corporation Limited, Pimpri, Pune – 411 018.

He was found punctual during training. We wish him best of luck for future endeavors.

Haffkine Bio-Pharmaceutical Corporation Ltd.
Pimpri, Pune.

B. P. Kurhe
Manager
Dr. B. P. Kurhe





Haffkine Bio-Pharmaceutical Corporation Ltd.

(A Govt. Of Maharashtra undertaking)

PIMPRI, PUNE - 411 018. PHONE (020) 27422206, 27421945. FAX : (020) 27420209

Regd Office - Acharya Dande Marg, Parel, Mumbai - 400 012 (INDIA)

Phones - 24129320-23 PUR - 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/507

Date: 26.07.2023

CERTIFICATE

This is to certify that, **Mr. Sarvesh Dilip Kulkarni** student of Final Year B.Pharmacy, Modern College of Pharmacy Sector no-21, Yamunanagar, Nigdi Pune-411044 has successfully completed his one month industrial training from 26.06.2023 to 26.07.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him all the best for his future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.,

Dr. B. P. Kurhe
Manager





**Haffkine Bio-Pharmaceutical
Corporation Ltd.**

(A Govt. Of Maharashtra undertaking)

PIMPRI, PUNE - 411 018. PHONE (020) 27422206, 27421945, FAX : (020) 27420209

Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012. (INDIA)

Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/ 504

Date: 26.07.2023

CERTIFICATE

This is to certify that, **Mr. Hrishikesh Anil Nikam** student of Final Year B.Pharmacy, Modern College of Pharmacy Sector no-21, Yamunanagar, Nigdi Pune-411044 has successfully completed his one month industrial training from 26.06.2023 to 26.07.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him all the best for his future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.,



B. P. Kurhe
Dr. B. P. Kurhe
Manager



**Haffkine Bio-Pharmaceutical
Corporation Ltd.**

(A Govt. Of Maharashtra undertaking)

PIMPRI, PUNE - 411 018. PHONE (020) 27422206, 27421945, FAX : (020) 27420209

Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012. (INDIA)

Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/508

Date: 26.07.2023

CERTIFICATE

This is to certify that, **Mr. Prathamesh Rajesh Panzade** student of Final Year B.Pharmacy, Modern College of Pharmacy Sector no-21, Yamunanagar, Nigdi Pune-411044 has successfully completed his one month industrial training from 26.06.2023 to 26.07.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him all the best for his future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.,


Dr. B. P. Kurhe
Manager





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Phones : 24129320-23 PUR : 24147564 MKI : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/493

Date: 21.07.2023

CERTIFICATE

This is to certify that, **Mr. Pratham Umesh Pawar** student of Final Year B. Pharmacy, PES's Modern College of Pharmacy, Nigdi,— Tal-Haveli, Dist- Pune- 411044 has successfully completed his one month industrial training from 21/06/2023 to 21/07/2023 at Haffkine Bio-Pharmaceutical Corporation Limited, Pimpri, Pune – 411 018.

He was found punctual during training. We wish him best of luck for future endeavors.

Haffkine Bio-Pharmaceutical Corporation Ltd.
Pimpri, Pune.


Manager
Dr. B. P. Kurhe





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PUNE - 411 018. PHONE : 020 - 27423833 / 9552530267 Email : ats@vaccinehaffkine.com

Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012, (INDIA)

Phones : 241 29320-23 PUR : 241 47564 MKT : 241 46419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 1117-1427 HBPC IN FAX : 241 68578

ATS/570

Date: 18.08.2023

CERTIFICATE

This is to certify that, **Mr. Rutwik Chandrakant Pawar** student of Final Year B. Pharmacy P.E.S. Modern college of Pharmacy, Nigdi, Pune – 411044 has successfully completed his one month industrial training from 18.07.2023 to 18.08.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During her tenure we found her sincere, hardworking, punctual and technically sound and result oriented.

We wish her all the best for her future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.




Dr. B. P. Kurhe
Manager



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Regd Office : Acharya Dande Marg, Parel, Mumbai - 400 012. (INDIA)

Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/563


Date: 18.08.2023

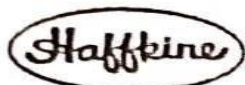
CERTIFICATE

This is to certify that, **Miss. Swapnali Laxman Shedge**, final year student of B.Pharmacy , P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. She has successfully completed her one month Industrial training (17.07.2023 to 18.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During her training she was found sincere & hardworking. We wish her best luck for future endeavors.




Dr. B. P. Kurhe
Manager



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24148578

ATS/521

Date: 25.08.2023

CERTIFICATE

This is to certify that, Mr. Abhishek Gokul Shendurkar student of Fourth year B. Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi, Pune- 411044 has successfully completed his one month Industrial Training from 26.07.2023 to 25.08.2023 at Haffkine Bio-Pharmaceutical Corporation Limited, Pimpri, Pune- 411 018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him best of luck for future endeavors.

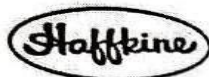
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Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/S84

Date: 25.08.2023

CERTIFICATE

This is to certify that, Mr. Vijay Uttam Shinde , final year student of B.Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. He has successfully completed his one month Industrial training (24.07.2023 to 25.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During his training he was found sincere & hardworking. We wish him best luck for future endeavors.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11 7-1427 HBPC IN FAX : 24148578

ATS/568

Date: 18.08.2023

CERTIFICATE

This is to certify that, Miss. Sukanya Kalyan Vyavahare student of Final Year B. Pharmacy P.E.S. Modern college of Pharmacy, Nigdi, Pune - 411044 has successfully completed her one month industrial training from 18.07.2023 to 18.08.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During her tenure we found her sincere, hardworking, punctual and technically sound and result oriented.

We wish her all the best for her future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.




Dr. B. P. Kurhe
Manager



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/562


Date: 18.08.2023

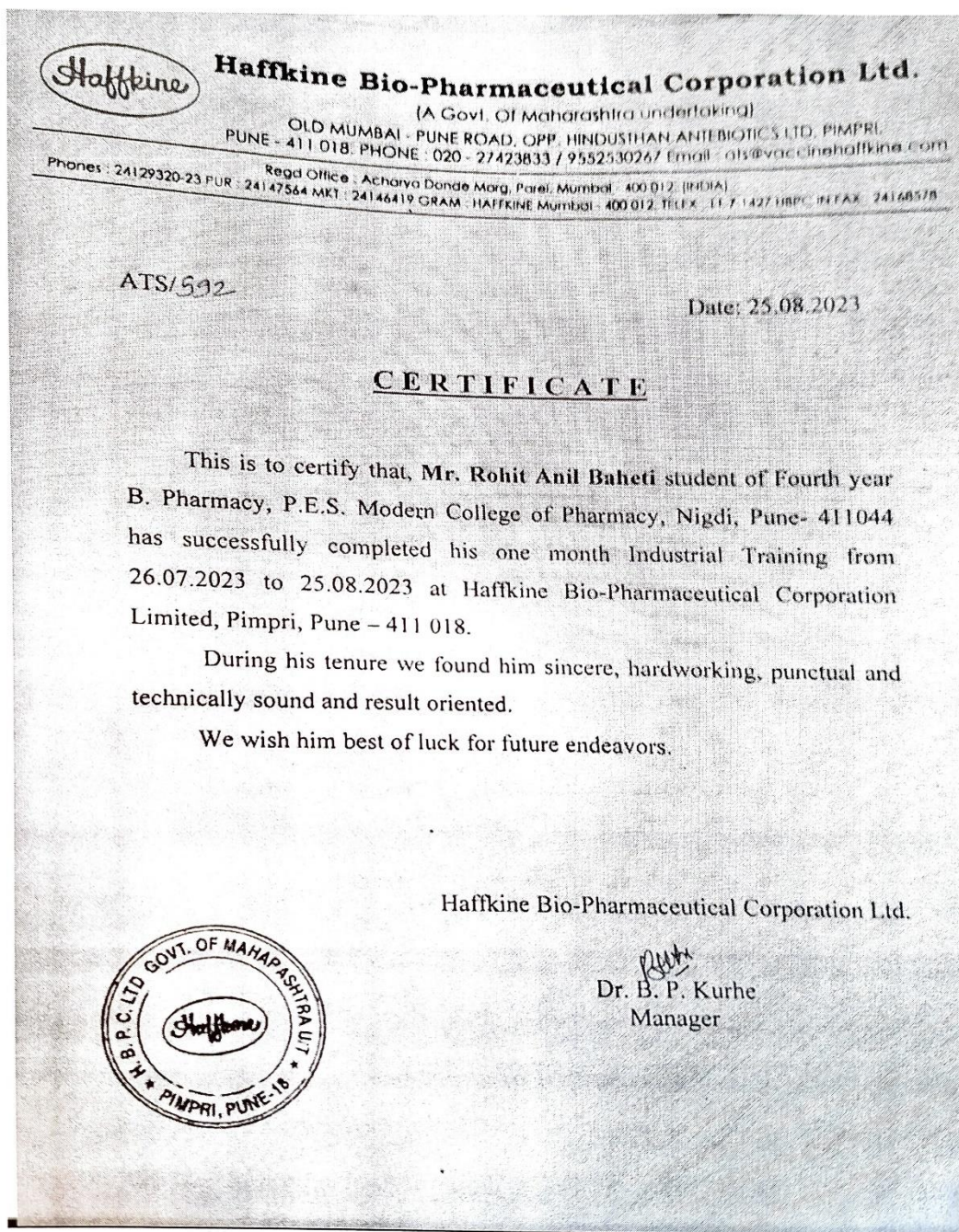
CERTIFICATE

This is to certify that, **Miss. Srushti Samir Phand** , final year student of B.Pharmacy , P.E.S. Modern College of Pharmacy, Nigdi Pune-411044 . She has successfully completed her one month Industrial training (17.07.2023 to 18.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During her training she was found sincere & hardworking. We wish her best luck for future endeavors.




Dr. B. P. Kurhe
Manager



MODERN COLLEGE OF PHARMACY, NIGDI.



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Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012. (INDIA)
Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 H8PC IN FAX : 24168578

ATS/572

Date: 18.08.2023

CERTIFICATE

This is to certify that, Miss. Sakshi Ashok Barangule student of Final Year B. Pharmacy P.E.S. Modern college of Pharmacy, Nigdi, Pune – 411044 has successfully completed her one month industrial training from 18.07.2023 to 18.08.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During her tenure we found her sincere, hardworking, punctual and technically sound and result oriented.

We wish her all the best for her future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.



Belm
Dr. B. P. Kurhe
Manager

Criteria 1 - Curricular Aspects



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/571

Date: 18.08.2023

CERTIFICATE


This is to certify that, Miss. Bhumika Kishor Bhole student of Final Year B. Pharmacy P.E.S. Modern college of Pharmacy, Nigdi, Pune - 411044 has successfully completed her one month industrial training from 18.07.2023 to 18.08.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During her tenure we found her sincere, hardworking, punctual and technically sound and result oriented.

We wish her all the best for her future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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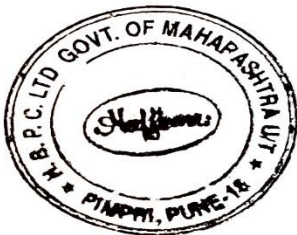
ATS/583


Date: 25.08.2023

CERTIFICATE

This is to certify that, **Miss. Aditi Sanjay Bonde**, final year student of B.Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. She has successfully completed her one month Industrial Training (24.07.2023 to 25.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During her training she was found sincere & hardworking. We wish her best luck for future endeavors.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



Industrial Training Report, Academic Year 2023-24



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Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012. (INDIA)
Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24169578

ATS/567


Date: 18.08.2023

CERTIFICATE

This is to certify that, Miss. Vidya Dilip Chaudhari, final year student of B.Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. She has successfully completed her one month Industrial training (17.07.2023 to 17.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During her training she was found sincere & hardworking. We wish her best luck for future endeavors.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



Industrial Training Report, Academic Year 2023-24



Haffkine Bio-Pharmaceutical Corporation Ltd.

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Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012, (INDIA)
Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/566

Date: 18.08.2023

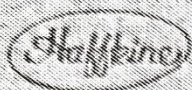
CERTIFICATE

This is to certify that, **Miss. Siddhi Sangram Chavan**, final year student of B.Pharmacy , P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. She has successfully completed her one month Industrial training (17.07.2023 to 17.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During her training she was found sincere & hardworking. We wish her best luck for future endeavors.



B.P.K.
Dr. B. P. Kurhe
Manager



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Regd Office : Acharya Dadas Marg, Parel, Mumbai - 400 012. (MCA)

Phones : 24129320-23 PUNE : 24147564 MUM : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEFAX : 11-711477 HOSP. IN FAX : 24118576

ATS/506

Date: 26.07.2023


CERTIFICATE

This is to certify that, Mr. Yashraj Ravindra Dhamale student of Final Year B.Pharmacy, Modern College of Pharmacy Sector no-21, Yamunanagar, Nigdi Pune-411044 has successfully completed his one month industrial training from 26.06.2023 to 26.07.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him all the best for his future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.,


Dr. B. P. Kurhe
Manager





Criteria 1 - Curricular Aspects



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFKINE Mumbai - 400 012. TELEX : 11-7-1427 H8PC IN FAX : 24168578

ATS/505

Date: 26.07.2023

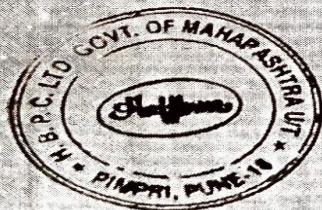
CERTIFICATE

This is to certify that, **Mr. Sanket Sanjay Dhangare** student of Final Year B.Pharmacy, Modern College of Pharmacy Sector no-21, Yamunanagar, Nigdi Pune-411044 has successfully completed his one month industrial training from 26.06.2023 to 26.07.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him all the best for his future endeavors.

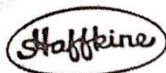
Haffkine Bio-Pharmaceuticals Corporation Ltd.,



B.P.K.
Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012. (INDIA)

Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012, TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/569

Date: 18.08.2023

CERTIFICATE


This is to certify that, **Mr. Soham Shekhar Doshi** student of Final Year B. Pharmacy P.E.S. Modern college of Pharmacy, Nigdi, Pune - 411044 has successfully completed his one month industrial training from 18.07.2023 to 18.08.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd, Pimpri, Pune- 411018.

During her tenure we found her sincere, hardworking, punctual and technically sound and result oriented.

We wish her all the best for her future endeavors.

Haffkine Bio-Pharmaceuticals Corporation Ltd.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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Phones : 24129320-23 PUR : 24147564 MKT : 24144419 GRAM : HAFFKINE Mumbai - 400 012, TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/564 Date: 18.08.2023

CERTIFICATE

This is to certify that, **Mr. Sudhir Giridhar Gaikwad**, final year student of B.Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. He has successfully completed his one month Industrial training (17.07.2023 to 17.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During his training he was found sincere & hardworking. We wish him best luck for future endeavors.




Dr. B. P. Kurhe
Manager



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Phones : 24129320-23 PUR 24147564 MKT. 24146419 GRAM. HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/490

Date: 21.07.2023

CERTIFICATE

This is to certify that, **Mr. Vishal Sachin Gangawane** student of Final Year B. Pharmacy, PES's Modern College of Pharmacy, Nigdi, - Tal-Haveli, Dist- Pune- 411044 has successfully completed his one month industrial training from 21/06/2023 to 21/07/2023 at Haffkine Bio-Pharmaceutical Corporation Limited, Pimpri, Pune - 411 018.

He was found punctual during training. We wish him best of luck for future endeavors.

Haffkine Bio-Pharmaceutical Corporation Ltd.
Pimpri, Pune.


Manager
Dr. B. P. Kurhe





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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168572

ATS/565


Date: 18.08.2023

CERTIFICATE

This is to certify that, **Mr. Dipak Pandurang Gonde**, final year student of B.Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi Pune-411044. He has successfully completed his one month Industrial training (17.07.2023 to 17.08.2023) in QC Department at Haffkine Bio-Pharmaceutical Corporation Ltd., Pimpri, Pune- 411018.

During his training he was found sincere & hardworking. We wish him best luck for future endeavors.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/593

Date: 25.08.2023

CERTIFICATE


This is to certify that, **Mr. Aditya Kumar Kasar** student of Fourth year B. Pharmacy, P.E.S. Modern College of Pharmacy, Nigdi, Pune-411044 has successfully completed his one month Industrial Training from 26.07.2023 to 25.08.2023 at Haffkine Bio-Pharmaceutical Corporation Limited, Pimpri, Pune-411 018.

During his tenure we found him sincere, hardworking, punctual and technically sound and result oriented.

We wish him best of luck for future endeavors.

Haffkine Bio-Pharmaceutical Corporation Ltd.




Dr. B. P. Kurhe
Manager



Criteria 1 - Curricular Aspects



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Regd Office : Acharya Dande Marg, Parel, Mumbai - 400 012. (INDIA)

Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/503

Date: 26.07.2023

CERTIFICATE

This is to certify that, **Miss. Purva Munjaji Korde** student of Final Year B.Pharmacy, Modern College of Pharmacy Sector no-21, Yamunanagar, Nigdi Pune-411044 has successfully completed her one month industrial training from 26.06.2023 to 26.07.2023 at Haffkine Bio-Pharmaceuticals Corporation Ltd. Pimpri, Pune- 411018.

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Haffkine Bio-Pharmaceuticals Corporation Ltd.


Dr. B. P. Kurhe
Manager





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Corporation Ltd.**

(A Govt. Of Maharashtra undertaking)

PIMPRI, PUNE - 411 018. PHONE (020) 27422206, 27421945, FAX : (020) 27420209

Regd Office : Acharya Donde Marg, Parel, Mumbai - 400 012. (INDIA)

Phones : 24129320-23 PUR : 24147564 MKT : 24146419 GRAM : HAFFKINE Mumbai - 400 012. TELEX : 11-7-1427 HBPC IN FAX : 24168578

ATS/492

Date: 21.07.2023

CERTIFICATE

This is to certify that, **Mr. Sahil Anil Amble** student of Final Year B. Pharmacy, PES's Modern College of Pharmacy, Nigdi, Tal- Haveli, Dist- Pune- 411044 has successfully completed his one month industrial training from 21/06/2023 to 21/07/2023 at Haffkine Bio-Pharmaceutical Corporation Limited, Pimpri, Pune – 411 018.

He was found punctual during training. We wish him best of luck for future endeavors.

Haffkine Bio-Pharmaceutical Corporation Ltd.
Pimpri, Pune.

Manager
Dr. B. P. Kurhe

