



# Vivekanand Education Society's College of Pharmacy

Hashu Advani Complex, Near Collector's Colony, Chembur (E) Mumbai 400074

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SR 355

A SEMINAR REPORT ON  
**PULMONARY DRUG DELIVERY  
SYSTEM: A PROMISING  
APPROACH AGAINST COVID-19**

Submitted By:

**Miss. Priya Krishna Baranwal**

First Year M. Pharm SEM 1 - Pharmaceutics

In the academic year of 2021-22

Under the Guidance of

Dr. Rajashree Hirlekar

Head of Department

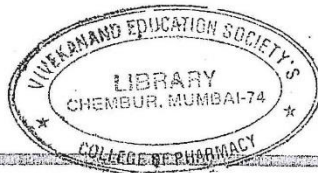
Department of Pharmaceutics

SR 355

**VES COLLEGE OF PHARMACY, CHEMBUR.**

Hashu Advani Memorial Complex, Chembur (E)

Mumbai, Maharashtra - 400074



VES COLLEGE OF PHARMACY

*SS*  
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VES COLLEGE OF PHARMACY, CHEMBUR

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2021- 2022

**CERTIFICATE**

This is to certify that the seminar report entitled '**PULMONARY DRUG DELIVERY**


**SYSTEM: A PROMISING APPROACH AGAINST COVID-19**' by

**Miss Priya Krishna Baranwal,**

being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on her bonafide work done in the academic year 2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur


Date: 14/03/2022



Dr. Rajashree Hirlekar

Head of Department

Department of Pharmaceutics



Dr. (Mrs.) Supriya S. Shidhaye  
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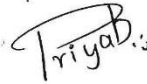
VES COLLEGE OF PHARMACY




## ACKNOWLEDGEMENT

I would like to express my deepest sense of gratitude towards our principal Dr. Supriya Shidhaye for providing this valuable opportunity. I would like to express my sincere gratitude towards my guide Dr. Rajashree Hirlekar for her support and guidance. I would also like to thank my fellow student friends for coordinating and encouraging me throughout.

Last, but not the least I would like to thank my parents for their continuous and unconditional support.



-Miss. Priya Krishna Baranwal



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SR 356

A SEMINAR REPORT ON

**AN OVERVIEW OF GASTRO-RETENTIVE  
DRUG DELIVERY SYSTEM**

**Submitted By:**  
ROHAN CHOUDHARY

**M. Pharm, First Year, Pharmaceutics**  
In The Academic Year Of 2021-22


**Roll No: M-PH-10222**

Under The Guidance Of  
**DR. HARSHA KATHPALIA**

SR 356

**VES COLLEGE OF PHARMACY, CHEMBUR**

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VES COLLEGE OF PHARMACY, CHEMBUR

Hashu Advani Memorial Complex, Chembur (E)

2021- 2022

**CERTIFICATE**

This is to certify that the Seminar Report entitled 'AN OVERVIEW OF GASTRO-RETENTIVE DRUG DELIVERY SYSTEM' by

**Mr Rohan Narayanlal Choudhary**

being submitted in the partial fulfilment of the requirement of First Semester of M. Pharm. Course, is based on his bonafide work done in the academic year 2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date: 14/3/22

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Dr. Harsha Kathpalia

Assistant Professor

Department Of Pharmaceutics

*Shidhaye*

Dr. (Mrs.) Sumitra S. Shidhaye

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Chembur, Mumbai - 400 074

## ACKNOWLEDGEMENT

I would like to express my gratitude towards our beloved principal Dr. Supriya Shidhaye ma'am for providing me this wonderful opportunity.


I would also like to express my sincere gratitude towards my humble guide Dr. Harsha Kathpalia for her constant guidance and support.

I would also like to thanks my fellow batchmates and colleagues for encouraging and supporting me.

Finally, I would also like to thank my Family for their unconditional love and support.



- Mr. Rohan Choudhary

  
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Vivekananda Education Society's  
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Chembur, Mumbai - 400 074

SR 357

A SEMINAR REPORT ON  
**LIPOSOMES AS AN ADJUVANT FOR  
VACCINE DELIVERY**

Submitted By:

**Miss. Dama Anjali Arvind**

M. Pharm, First Year Sem I- Pharmaceutics

In the academic year of 2021-22

Under the Guidance of


Dr. Rajan Kalamkar

SR 357

**VES COLLEGE OF PHARMACY, CHEMBUR.**

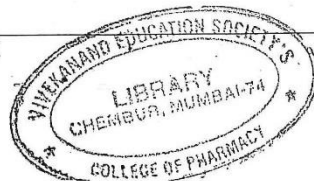
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Dr. (Mrs.)  Sushila S. Shidhaye  
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2021- 2022

**CERTIFICATE**

This is to certify that the project entitled '**LIPOSOMES AS AN ADJUVANT FOR VACCINE DELIVERY**' by Miss **Dama Anjali Arvind**, being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on her bonafide work done in the academic year 2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date: 21/03/2022



Dr. Rajan Kalamkar

Assistant Professor

Department of Pharmaceutics

2

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Chembur, Mumbai - 400 074



## ACKNOWLEDGMENT

I would like to express my deepest sense of gratitude towards our Principal Dr. Supriya Shidhaye for providing this valuable opportunity. I would like to express my sincere gratitude towards my guide Dr. Rajan Kalamkar. I would also like to thank my friends for encouraging me throughout.

Last but not the least, I would like to thank my parents for their continuous and unconditional support.

*Anjali*

-Miss. Dama Anjali Arvind.

*SS*  
Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai - 400 074



SR 358

A SEMINAR REPORT ON  
**APPLICATIONS OF SLN FOR  
TOPICAL DRUG DELIVERY  
SYSTEM**

Submitted By:

**Mr. Akash Vasant Gavhale**

First Year M. Pharm SEM 1- Pharmaceutics

In the academic year of 2021-22

Under the Guidance of

Dr. Rajashree Hirlekar

Head of Department

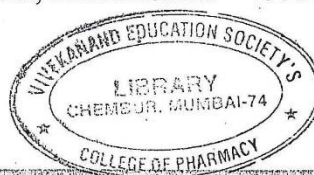
Department of Pharmaceutics

SR358

**VES COLLEGE OF PHARMACY, CHEMBUR.**

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2021- 2022

**CERTIFICATE**

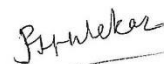
This is to certify that the Seminar Report entitled 'APPLICATIONS OF SLN  
FOR TOPICAL DRUG DELIVERY SYSTEM' by

**Mr Akash Vasant Gavhale**

being submitted in the partial fulfilment of the requirement of First Semester  
of M. Pharm. Course, is based on his bonafide work done in the academic year  
2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the  
guidance and supervision

Place: Chembur

Date: 14/03/2022



Dr. Rajashree Hirlekar

Head of Department

Department of Pharmaceutics



Dr. (Mrs.) Supriya S. Shidhaye

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Chembur, Mumbai - 400 074


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## ACKNOWLEDGEMENT

I would like to express my deepest sense of gratitude towards our principal Dr. Supriya Shidhaye for providing this valuable opportunity. I would like to express my sincere gratitude towards my guide Dr. Rajashree Hirlekar for her support and guidance. I would also like to thank my fellow student friends for coordinating and encouraging me throughout.

Last, but not the least I would like to thank my parents for their continuous and unconditional support.

  
-Mr. Akash Vasant Gavhale

  
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SR 359

A SEMINAR REPORT ON

**NOVEL APPROACHES IN  
FORMULATION AND DRUG  
DELIVERY USING CONTACT  
LENSES**

Submitted By:

**Miss. Vaishnavi Shankar Gunjal**

M. Pharm, First Year (SEM 1) Pharmaceutics

In the academic year of 2021-22

Under the Guidance of

Dr. Rajan Kalamkar

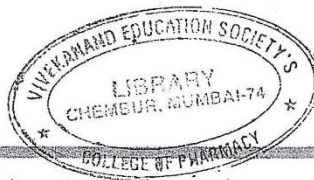
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University of Mumbai

2021-2022



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This is to certify that the report entitled '**NOVEL APPROACHES IN FORMULATION AND DRUG DELIVERY USING CONTACT LENSES**' by **Miss Vaishnavi Shankar Gunjal**, being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date: 14/3/22

  
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Assistant Professor  
Department of Pharmaceutics

  
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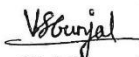
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## ACKNOWLEDGEMENT

I would like to express my deepest sense of gratitude towards our Principal Dr. Supriya Shidhaye ma'am and HOD of pharmaceuticals department Dr. Rajashree Hirlekar ma'am for providing this valuable opportunity. I would like to express my sincere gratitude towards my guide Dr. Rajan Kalamkar sir. I would also like to thank my fellow student friends for coordinating and encouraging me throughout.

Last, but not the least I would like to thank my parents for their continuous and unconditional support.

  
-Miss. Vaishanavi Shankar Gunjal

  
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Principal,  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

---

VES COLLEGE OF PHARMACY

SR 360

A SEMINAR REPORT ON

**APPLICATION OF MICRONEEDLE  
IN ANTIDIABETIC THERAPY**

Submitted By:

**Ms. Ankita Prakash Kanade**

First Year M. Pharm SEM 1- Pharmaceutics


In the academic year of 2021-22

Under the Guidance of

Dr. Rajashree Hirlekar

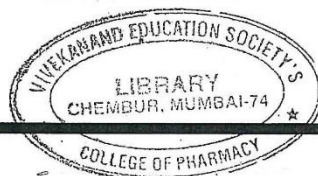
Head of Department

Department of Pharmaceutics

  
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Maharashtra 400074

2021- 2022

CERTIFICATE

This is to certify that the Seminar Report entitled  
**'APPLICATION  
OF MICRONEEDLE IN ANTIDIABETIC THERAPY'**  
by

**Ms. Ankita Prakash Kanade**

being submitted in the partial fulfillment of the requirement of First Semester  
of M. Pharm. Course, is based on her bonafide work done in the academic year  
2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the  
guidance and supervision.

Place: Chembur

Date:14/3/22

*Hirlekar*

Dr. Rajashree Hirlekar

Head of Department

Department of Pharmaceutics

*Shidhaye*  
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## ACKNOWLEDGEMENT

I would like to express my deepest sense of gratitude towards our principal Dr. Supriya Shidhaye for providing this valuable opportunity. I would like to express my sincere gratitude towards my guide Dr. Rajashree Hirlekar for her support and guidance. I would also like to thank my fellow student friends for coordinating and encouraging me throughout.

Last, but not the least I would like to thank my parents for their continuous and unconditional support.

*A.P. Kanade*  
-Miss. Ankita Prakash Kanade

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Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai - 400 074

SR361

# A SEMINAR REPORT ON ADVANCES IN TRANSDERMAL DRUG DELIVERY SYSTEM

Submitted By:

Miss Nikita Shailendra Mashilkar

M. Pharm (Pharmaceutics), First Year

In the academic year of 2021-22

Under the Guidance of

Dr. Supriya Shidhaye

(Principal of VES College of Pharmacy)

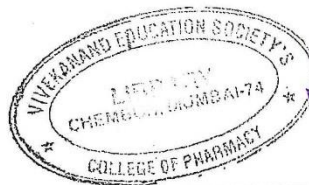
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Chembur, Mumbai - 400 074

## CERTIFICATE BY THE GUIDE

This is to certify that the seminar report entitled **ADVANCES IN TRANSDERMAL DRUG DELIVERY SYSTEM** is a bonafide work of Miss **Nikita Shailendra Mashilkar** and is submitted to VES College of Pharmacy, Chembur, Mumbai

Sign: sswdhaye

Name of Guide: Dr. Supriya Shidhaye

Date: 16/03/2022

Place: Mumbai

VES COLLEGE OF PHARMACY

  
Dr. (Mrs.) Supriya S. Shidhaye  
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HAMC, Behind Collector Colony,  
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2

## ACKNOWLEDGMENT


I would like to acknowledge and give my warmest thanks to Dr. Supriya Shidhaye, principal and my guide for her invaluable guidance and support. Her motivation and help contributed tremendously to the successful completion of my seminar

I would also like to extend my heartfelt thanks to my parents without their help this seminar would not have been successful.

Lastly, I thank God. He has been the source of my strength throughout this program and on his wings only I have soared.

-Miss Nikita Shailendra Mashilkar

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Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai - 400 074

SR362

A SEMINAR REPORT ON  
**IN-VITRO LIPID DIGESTION MODELS**

Submitted By:

Ms. Tanvi Pravin Mondkar

M. Pharm, First Year

In the academic year of 2021-22

Under The Guidance Of

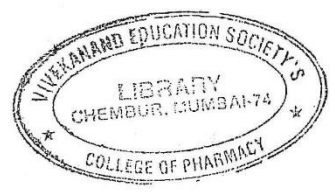
Dr. Mrs. Chaitali Surve  
Assistant Professor

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Hashu Advani Memorial Complex,

Behind Collectors Colony, Chembur, Mumbai-400074

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Chembur, Mumbai - 400 074

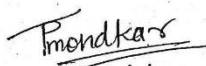


SR362




## ACKNOWLEDGEMENT

I would like to express my sincere gratitude to Dr. Supriya Shidhaye principal of VES COLLEGE OF PHARMACY & HOD Dr. Rajashree Hirlekar for providing me this valuable opportunity. I am grateful to my guide Dr. Chaitali Surve for her constant guidance and supervision; as well as for providing necessary information and imparting knowledge and expertise regarding the topic "*IN-VITRO LIPID DIGESTION MODELS*" and also for her support in completing this endeavor. Last but not the least I would like to thank my parents for their continuous & unconditional support.



- Ms. Tanvi Pravin Mondkar.

  
Dr. (Mrs.) Supriya S. Shidhaye  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074




## CERTIFICATE

UNIVERSITY OF MUMBAI  
VES College of Pharmacy  
Hashu Advani Memorial Complex,  
Chembur, Mumbai.  
2021-2022

This is to certify that the seminar entitled "IN VITRO LIPID DIGESTION MODELS" is being submitted by Ms. Tanvi Pravin Mondkar in the partial fulfilment of the requirement of the first semester of M. Pharm course based on her bonafide work done in the academic year 2021-22 at VES college of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

DR. MRS. SUPRIYA SHIDHAYE  
(Principal)


  
DR. MRS. CHAITALI SURVE  
(Guide)

Place:

Place: Mumbai

Date:

Date: 15/03/2022

  
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Vivekanand Education Society College of Pharmacy Chembur, Mumbai-400074

HAMC, Bel Page 3, Sector Colony,  
Chembur, Mumbai - 400 074

SR 363

A SEMINAR REPORT ON  
**NEW APPROCHES OF VACCINE  
DELIVERY FOR COVID 19**

Submitted by :

**Ms. Sharayu Naik**

M. Pharm, First Year

In the academic year of 2021-22

Under the Guidance of

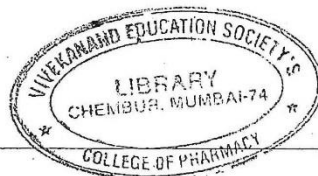
**Dr. Ganga Srinivasan**

Professor In Pharmaceutics


SR 363

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Chembur (E), Mumbai, Maharashtra- 400074

**CERTIFICATE**

This is to certify that the project entitled '**NEW APPROCHES OF VACCINE DELIVERY FOR COVID 19**' by Miss Sharayu Naik, being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on her bonafide work done in the academic year 2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur


Date: 14/03/2022

Dr. Ganga Srinivasan

Professor in Pharmaceutics

VES College of Pharmacy

VES College Of Pharmacy

  
Dr. (Mrs.) Sharada S. Shidhaye  
Vivekananda Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

## ACKNOWLEDGMENT

I would like to express my deepest sense of gratitude towards our Principal Dr. Supriya Shidhaye for providing this valuable opportunity.

I would like to express my sincere gratitude towards my guide Dr. Ganga Srinivasan for her support and guidance.

I would also like to thank my fellow student friends for coordinating and encouraging me throughout.

Last, but not the least I would like to thank my parents for their continuous and unconditional support.



- Miss Sharayu Naik



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Chembur, Mumbai - 400 074

SR364

**A SEMINAR REPORT ON**  
**FORMULATION PERSPECTIVE OF**  
**NITROSAMINES**

**Submitted By**

Ms. Swapnali Bhagwan Patil

**First year M. Pharm. Sem I, Pharmaceutics**

**In the academic year of 2021-22**

Under the Guidance of

Dr. Harsha Kathpalia

Assistant Professor

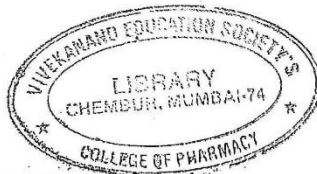
Department of Pharmaceutics

SR364

**VES COLLEGE OF PHARMACY, CHEMBUR.**

(Hashu Advani Memorial Complex, Behind Collector Colony, CHEMBUR

MUMBAI- 400074)



*SS*  
Dr. (Mrs.) Supriya S. Shidhaye  
Principal,  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

## CERTIFICATE

This is to certify that the report entitled 'Formulation Perspective of Nitrosamines' by Miss. Swapali Bhagwan Patil, being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date: 14-3-22



Dr. Harsha Kathpalia

Assistant Professor

Department of Pharmaceutics



Dr. (Mrs.) Supriya S. Shidhaye  
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HMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGMENT


With great pleasure, I acknowledge my sincere gratitude to my guide **Dr. Harsha Kathpalia** (Dept. of Pharmaceutics) for her active guidance, innovative ideas, constant inspiration, continuous supervision, valuable suggestions and support to complete the seminar effectively and successfully.

I express my sincere gratitude to **Dr. Supriya Shidhaye** (Principal, VES college of Pharmacy, Chembur) for her constant encouragement and for providing this valuable opportunity.

I am grateful to my family members, my friends for their lovable and moral support and constant inspiration.

I sincerely thank all.

  
-Ms. Swapnali B. Patil

  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
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HAMG, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR 365

A SEMINAR REPORT ON  
**3D PRINTING—A NEW ERA OF  
PHARMACEUTICAL MANUFACTURING**

Submitted By:

**Mr. YASH PRASHANT PAWAR**

M. Pharm, First Year

In the academic year of 2021-22

Under the Guidance of

**Dr. RAJAN KALAMKAR**

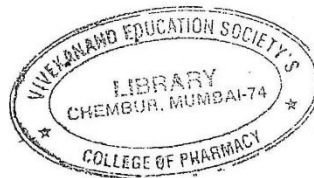
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University of Mumbai

2021- 2022

VES College of Pharmacy



SR 365  
*SS*  
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## CERTIFICATE

This is to certify that the project entitled '3D PRINTING – A NEW ERA OF PHARMACEUTICAL MANUFACTURING' by Mr. YASH PRASHANT PAWAR, being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on his bonafide work done in the academic year 2021- 2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date: 21/03/2022



Dr. Rajan Kalamkar

Assistant Professor

Department of Pharmaceutics

VES College of Pharmacy



Dr. (Mrs.) Sushila S. Shidhaye  
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Chembur, Mumbai - 400 074

## ACKNOWLEDGEMENT

I would like to express my heartfelt thanks to our Principal Dr. Supriya Shidhaye ma'am for giving me this opportunity. I would also like to thank our HOD, Dr. Rajashree Hirlekar ma'am for her kind support. I would like to express my sincere gratitude to my guide Dr. Rajan Kalamkar sir for helping me in fruitful completion of my report. I would also like to thank my fellow colleagues for coordinating and encouraging me throughout.

Last, but not the least I would like to thank my parents and family members for their continuous and unconditional support.



-Mr. Yash Prashant Pawar

VES College of Pharmacy



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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR 300

A SEMINAR REPORT ON  
**AN OVERVIEW OF CARBON NANOTUBES  
– A NOVEL DRUG DELIVERY SYSTEM**

Submitted By:

**Miss. FARHEEN MOHAMMED AKRAM SALMANIYA**

M. Pharm (Pharmaceutics), First Year

In the academic year of 2021-2022

Under the Guidance of

**Guide: DR. GANGA SRINIVASAN**

**VES COLLEGE OF PHARMACY, CHEMBUR.**

SR366



*rs*  
Dr. (Mrs.) Supriya S. Shidhaye  
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Hashu Advani Memorial Complex, Chembur (E), Mumbai)-400074

2020-2021

This is to certify that the seminar entitled “AN OVERVIEW OF CARBON NANOTUBES – A NOVEL DRUG DELIVERY SYSTEM” is being submitted by **MS. FARHEEN MOHAMMED AKRAM SALMANIYA** in the partial fulfilment of the requirement of the first semester of M. Pharm course based on her bonafide work done in the academic year 2021-22 at VES college of Pharmacy, Chembur, Mumbai, under my guidance and supervision.


Dr. Ganga Srinivasan

Professor

Dept. of Pharmaceutics

**Place:** Chembur

**Date:** 21/3/2022

  
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Chembur, Mumbai - 400 074



## ACKNOWLEDGEMENT

I wish to express my sincere gratitude to Dr. Ganga Srinivasan for the guidance, encouragement and support in every aspect of this work, right from the selection of topic, presentation and submission of this report.

I express my sincere thanks to Dr. Supriya Shidhaye, Principal of VES College of Pharmacy, for granting me this opportunity to present myself which will help me in doing my further research work proficiently.

I express a word of thanks to all teachers and technical staff of VES College of Pharmacy for extending proper guidance.

And lastly, I am grateful to all the people who have helped me throughout this presentation and supported me.



Ms Farheen Salmaniya

M Pharm First year  
(Pharmaceutics)



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Chembur, Mumbai - 400 074

SR 367

**A SEMINAR REPORT ON**  
**GUMMIES, SOFT GELS AND GUMMY CAPS**

**Submitted By:**

Ms. Anushka Vijay Sharma

**First year, M. Pharm, Sem I, Pharmaceutics**

**In the academic year of 2021-22**

Under the Guidance of

Dr. Harsha Kathpalia

Assistant professor

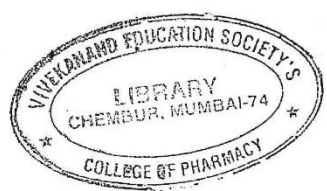
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*SS*  
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2021-2022

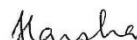
**CERTIFICATE**

This is to certify that the project entitled "Gummies, Soft gels and Gummy Caps" by Miss Anushka Vijay Sharma, being submitted in the partial fulfillment of the requirement of First Semester of M.Pharm Course, is being on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date: 15/3/2022


Ves College of Pharmacy



Dr. Harsha Kathpalia

Assistant Professor

Department of Pharmaceutics



Dr. (Mrs.) Supriya S. Shidhaye  
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## ACKNOWLEDGEMENT

I would like to express my sincere gratitude to Dr. Supriya Shidhaye principal of VES College of pharmacy and HOD Dr. Rajashree Hirlekar for providing me this valuable opportunity. I am grateful to my guide Dr. Harsha kathaplia for her constant guidance and supervision as well as for providing necessary information and imparting knowledge and expertise regarding the topic "Gummies, soft gels and gummy caps" and also for her support in completing this endeavor. Last but not the least I would like to thank my parents for their continuous and unconditional support.



Ms. Anushka Vijay Sharma.

Ves College of Pharmacy



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HAMC, Behind Collector Colony,  
Shembur, Mumbai - 400 074

3

SR 369

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A SEMINAR REPORT ON  
**ARTIFICIAL INTELLEGENCE IN  
DIAGNOSIS AND DIABETES  
PREVENTION**

**Submitted By:**

**Mittal Sanjay Tamboli**

**M. Pharm, First Year**

**In the academic year of 2021-22**

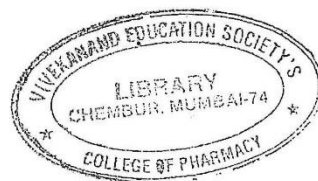
**Under the guidance of**

**Dr. Ganga Srinivasan**

**VES COLLEGE OF PHARMACY, CHEMBUR**

Hashu Advani Memorial Complex, Chembur (E)

SR369



*SS*  
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
This is to certify that the project entitled '**ARTIFICIAL INTELLEGENCE DIAGNOSIS AND DIABETES PREVENTION**' by **Miss. Mittal S. Tamboli**, being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm. Course, is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Chembur

Date:

**Dr. Ganga Srinivasan**

Department of Pharmaceutics

  
Dr. (Mrs.) Supriya S. Shidhaye  
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## ACKNOWLEDGMENT

I would like to thank our principal Dr. Supriya Shidhaye for her constant support and my guide Dr. Ganga Srinivasan for giving me the opportunity to explore the field of artificial intelligence in diagnosis and diabetes prevention thereby inculcating a strong sense of research based approach in me. I would also like to thank my fellow student friends for coordinating and encouraging me throughout. Last, but not the least I would like to thank my parents for their continuous and unconditional support.



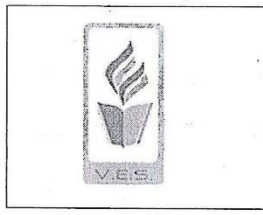
-Miss. Mittal S. Tamboli



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Chembur, Mumbai - 400 077

3

SR 370 370



VIVEKANAND EDUCATION SOCIETY  
COLLEGE OF PHARMACY

A SEMINAR REPORT ON  
**DIGITAL PILL/ ELECTRONIC PILL**

Submitted By:

Mr. Ashok Ramlal Choudhary

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022

Under the guidance of

Mr. Keyur V Shastri

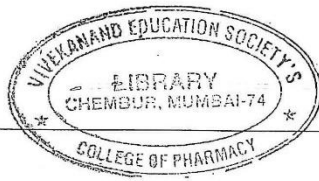
Assistant Professor - Department of Quality Assurance

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SR 370

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Hashu Advani Memorial Complex  
Chembur Mumbai  
2021-2022

This is to certify seminar entitled, " **DIGITAL PILL/ ELECTRONIC PILL** " by **Mr. Ashok Ramlal Choudhary** being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

*SS*  
Dr. (Mrs.) Supriya S. Shidhaye  
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*SS Shidhaye*



*KV Shastri*

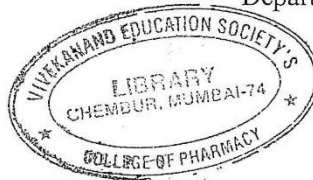
DR. (MRS.) SUPRIYA SHIDHAYE  
( Principal )

MR. KEYUR V SHASTRI  
Assistant professor

Department of Quality Assurance

Date: 14/03/2022

Place: Chembur



Date: 14/03/2022

Place: Chembur

## ACKNOWLEDGEMENT


I would like to express my gratitude to my principal, Dr. (Mrs.) Supriya Shidhaye, for her unwavering support and encouragement.

Mr. Keyur Shastri, my guide, deserves my gratitude and appreciation for his continual assistance, advice, and supervision, as well as for giving vital information for the completion of my seminar.

I'd want to express my gratitude to my family and friends for their unwavering support throughout my seminar work.



Mr. Ashok Ramlal Choudhary  
FY M pharm (Quality Assurance)  
VES College of Pharmacy.

  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR371

A SEMINAR REPORT ON

**INVITRO RELEASE TEST (IVRT)**  
**METHOD VALIDATION:**  
**SEMI SOLID DOSAGE FORMS**

**Submitted By:**

Ms. Akanksha Ramesh Dalvi

M. Pharm, First Year

In the academic year of 2021-22

Under the Guidance of

Mrs. Ashwini Wani

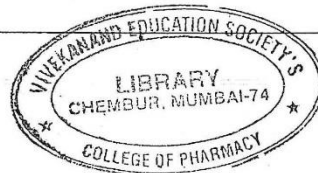
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**VES COLLEGE OF PHARMACY**

SR371

Hashu Advani Memorial Complex,

Behind Collectors Colony, Chembur, Mumbai-400074



## ACKNOWLEDGEMENT

I wish to express sincere thanks to principal Dr. (Mrs.) Supriya Shidhaye and Head of Department of Quality Assurance Dr. (Mrs.) Anita Ayre for their encouragement and support.

I convey my heartfelt thanks to my guide Mrs. Ashwini Wani for her constant motivation, encouragement and support in every aspect of this work, right from the selection of topic to the literature survey, presentation and submission of this report.

I express a word of thanks to all teachers, computer lab staff, and all technical staff for their help and cooperation.

And lastly, I am grateful to all the people who have helped me throughout this presentation and supported me.

*Akanksha*

- Ms. Akanksha Ramesh Dalvi

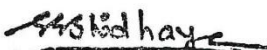
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Dr. (Mrs.) Supriya S. Shidhaye  
Principal  
Vivekanand Education Society's  
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Chembur, Mumbai.  
2021-2022

This is to certify that the seminar entitled "INVITRO RELEASE TEST (IVRT) METHOD VALIDATION: SEMISOLID DOSAGE FORMS" is being submitted by Ms. Akanksha Ramesh Dalvi in the partial fulfilment of the requirement of the first semester of M. Pharm course based on her bonafide work done in the academic year 2021-22 at VES college of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

  
DR. MRS. SUPRIYA SHIDHAYE  
(Principal)


Place: Chembur

Date: 15/03/2022

  
MRS. ASHWINI WANI  
(Guide)

Place: Chembur

Date: 15/03/2022

  
Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai Page 3074

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VIVEKANAND EDUCATION SOCIETY  
COLLEGE OF PHARMACY  
A SEMINAR REPORT ON  
**ARTIFICIAL INTELLIGENCE IN**  
**PHARMA**

Submitted By:

Ms. Asrin Anwar Khan


M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022

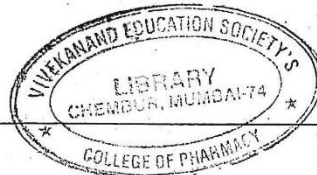
Under the guidance of

Mr. Ojaskumar D. Agrawal

  
Dr. (Mrs.) Supriya S. Shidhaye  
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SR372

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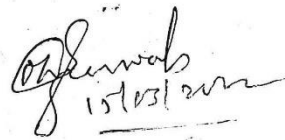
VES College of Pharmacy

Hashu Advani Memorial Complex

Chembur Mumbai

2020-2021


This is to certify seminar entitled, "ARTIFICIAL INTELLIGENCE IN PHARMA" by Ms. Asrin Anwar Khan being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2020-2021 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

  
15/03/2022

MR. OJASKUMAR D. AGRAWAL

Place: Chembur

Date: 15/3/2022

  
Dr. (Mrs.) Sunita S. Shidhaye  
Principal  
Vivekanand Education Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honorable principle Dr. (Mrs.) Supriya Shidhaye for all her encouragement.

I would also like to thank the head of department of Quality Assurance, Dr. Anita Ayre for her support.

I would like to express profound gratitude and appreciation to my guide Mr. Ojas kumar Agrawal for his valuable support, encouragement and supervision throughout my seminar work.

I would also like to appreciate the staff and librarians for all their help and cooperation.



Miss. Asrin Anwar Khan  
FY M pharm (Quality Assurance)  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR 373

A SEMINAR REPORT ON  
**DEVELOPEMENT AND VALIDATION  
OF UV VISIBLE SPECTROSCOPIC  
METHOD**

Submitted by:

Shruti Rajendra Khandave

M. Pharm, First Year

In the academic year of 2021-2022

Under the guidance of

Dr. Anita Ayre.

**VES COLLEGE OF PHARMACY, CHEMBUR**

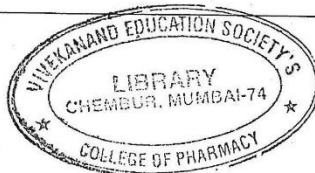
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Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur Mumbai

2021-2022

This is to certify seminar entitled, **DEVELOPMENT AND VALIDATION OF UV VISIBLE SPECTROSCOPIC METHOD** by Ms. Shruti Rajendra Khandave being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.


Place: Mumbai

Date: 15/3/2022

  
Dr. Anita Ayre

Associate professor,  
HOD, Department of Quality Assurance  
VES College of pharmacy

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Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGMENT

This is to express my sincere gratitude to my college authorities, our honorable principle Dr. Supriya Shidhaye for all her encouragement.

I would also like to thank the head of department of Quality Assurance, Dr. Anita Ayre for her support.

I would like to express profound gratitude and appreciation to my guide Dr. Anita Ayre for her valuable support, encouragement and supervision throughout my seminar work.

I would also like to appreciate the staff and librarians for all their help and cooperation.




Miss. Shrutika Rajendra Khandave

FY M pharm (Quality Assurance)

VES College of Pharmacy

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Dr. (Mrs.) Supriya S. Shidhaye  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



VIVEKANAND EDUCATION SOCIETY  
COLLEGE OF PHARMACY

A SEMINAR REPORT ON  
**NANOROBOTS: FUTURE OF**  
**HUMAN HEALTHCARE**

Submitted By:

Ms. Mrunmayee Prashant Kulkarni

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022

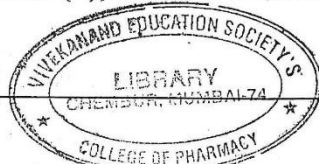
Under the Guidance of

Mr. Ojaskumar D. Agrawal

Dr. (Mrs.) <sup>SR</sup>Shriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074  
SR 374

**VES COLLEGE OF PHARMACY, MUMBAI**

Hashu Advani Memorial Complex, Behind Collector Colony,  
Chembur (E), Mumbai-400074

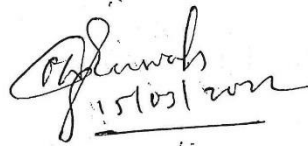


## CERTIFICATE

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VES College of Pharmacy  
Hashu Advani Memorial Complex,  
Chembur, Mumbai  
2020-2021


This is to certify seminar entitled, "NANOROBOTS: FUTURE OF HUMAN HEALTHCARE" by Ms. Mrunmayee Prashant Kulkarni being submitted in the partial fulfilment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.



Place: Chembur

Mr. Ojaskumar D. Agrawal

Date: 15/03/2022



Dr. (Mrs.) Supriya S. Shighaye  
PRINCIPAL  
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College of Pharmacy  
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Chembur, Mumbai - 400 074

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## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honourable principal Dr. (Mrs.) Supriya Shidhaye for all her encouragement.


I would also like to thank the head of department of Quality Assurance, Dr. (Mrs.) Anita Ayre for her support.

I would like to express profound gratitude and appreciation to my guide Mr. Ojaskumar Agrawal for his valuable support, encouragement and supervision throughout my seminar work.

I would also like to appreciate the staff and librarians for all their help and cooperation.



Miss. Mrunmayee Prashant Kulkarni  
FY M pharm (Quality Assurance)  
VES College of Pharmacy.



Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR 375

A SEMINAR REPORT ON

**Niosomes: A Novel Approach for  
Controlled and Targeted Drug Delivery**

Submitted By:

Ms. Akanksha Navalkumar Lad

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-22

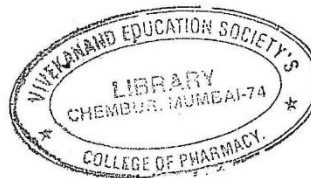
Under the Guidance of

Mrs. Vidhi Bhatia

SR 375

**VES COLLEGE OF PHARMACY, CHEMBUR.**

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Wadhawall Village, Chembur, Mumbai 400074



*MS*  
Dr. (Mrs.) Supriya S. Shidhaye  
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## CERTIFICATE

UNIVERSITY OF MUMBAI

VES College of Pharmacy

Hashu Advani Memorial Complex

Chembur Mumbai

2021-2022

This is to certify seminar entitled, “**Niosomes: A Novel Approach for Controlled and Targeted Drug Delivery**” by **Ms. Akanksha Navalkumar Lad** being submitted in the partial fulfilment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: *Chembur (Mumbai)*

Date: *21/3/2022*

*Vidhi Bhatia*  
Mrs. Vidhi Bhatia

*Shidhaye*  
Dr. (Mrs.) Suniya S. Shidhaye  
PRINCIPAL  
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College of Pharmacy 2  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGEMENT

I would also like to take this opportunity to thank our Principal Dr. (Mrs.) Supriya Shidhaye Mam and our Head Of Department, Dr. (Mrs.) Anita Ayre Mam for this opportunity and encouragement.

I would like to take this opportunity to express my sincere gratitude of thanks to my research guide, Mrs. Vidhi Bhatia Mam for her constant guidance, support, and encouragement for the completion of this seminar. Her experience and knowledge was very much helpful for the seminar.

This seminar gave me a good experience to develop my presentation skills and also to boost my confidence which will surely help me in future.


And lastly, I am grateful to all the people who have helped and supported me throughout this presentation.



- Miss. Akanksha Navalkumar Lad

F.Y. M.Pharm (Quality Assurance)

VES College of Pharmacy



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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

3

SR 376



Vivekanand Education Society's  
College of Pharmacy

A SEMINAR REPORT ON  
**TRANSFERSOMES: A NOVEL**  
**TECHNIQUE FOR TRANSDERMAL**  
**DRUG DELIVERY**

Submitted By:

Ms. Vedika Shriram Mishra

M.Pharm , First Year

(Quality Assurance)

In the academic year of 2020-21

Under the Guidance of

Mrs. Vidhi Bhatia

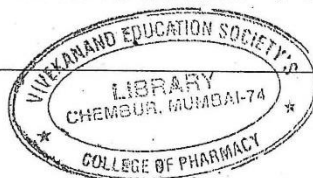
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1 | Page




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University of Mumbai  
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2020-21

This is to certify seminar entitled, "TRANSFEROSOMES: A NOVEL TECHNIQUE FOR TRANSDERMAL DRUG DELIVERY" by MS. VEDIKA SHRIRAM MISHRA being submitted in the partial fulfillment of the requirement of First Semester of M. Pharm course is based on her bonafide work done in the academic year 2020-21 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision of

  
Mrs. Vidhi Bhatia

Place: Chembur (Mumbai)

Date: 21/3/2022

  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honourable principle Dr. (Mrs.) Supriya Shidhaye for all her encouragement.

I would also like to thank the head of department of Quality Assurance, Dr. (Mrs.) Anita Ayre for her support.

I would like to express my profound gratitude to my guide Mrs. Vidhi Bhatia for her valuable support, encouragement and guidance throughout my seminar work.

*Vedika*

Ms. Vedika Shriram Mishra

FY M Pharm (Quality Assurance)

VES College of Pharmacy

*SM*  
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PRINCIPAL  
Vivekanand Education Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

377

A SEMINAR REPORT ON

**ATOMIC ABSORPTION SPECTROSCOPY**

**INSIGHT AND APPLICATION**

Submitted By:

Ms. Apeksha Arun More

M. Pharm. First year

In the academic year of 2021-22

Under the Guidance of

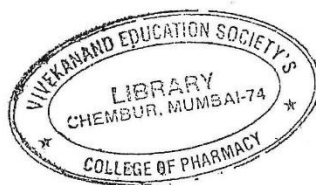
Dr. Anita Ayre

SR377

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Memorial Complex, Behind Collector Colony, Chembur (E) Mumbai

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
2021-2022

This is to certify seminar entitled, "ATOMIC ABSORPTION SPECTROSCOPY- INSIGHTS AND APPLICATIONS" by Ms. Apeksha Arun More being submitted in the partial fulfilment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

  
Dr. Anita Ayre

Place: *Chembur*

Date: *15/3/2022*

  
Dr. (Mrs.) Supriya S. Shidhaye  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

2



## ACKNOWLEDGMENT

I wish to express my sincere thanks to our college management, our honourable principal madam Dr. (Mrs.) Supriya Shidhaye for her kind help and encouragement.

I feel deeply obliged and indebted to, my guide Dr. Anita Ayre madam for her personal guidance regarding each and every aspect of this work, right from selection of the topic, literature survey, presentation up to the submission of this report.

I am very grateful to say a word of thanks to all my respected teachers for their time-to-time inspiration and our librarian and all technical staff for their cooperation.

*Amore*

**Miss. Apeksha Arun More**

*SS*  
**Dr. (Mrs.) Supriya S. Shidhaye**  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR 378

A SEMINAR REPORT ON  
**NANOPARTICLES USED IN  
TREATMENT OF CANCER**

Submitted By:

Ms. Anugna Vinmaye Munipalli

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022

Under the guidance of

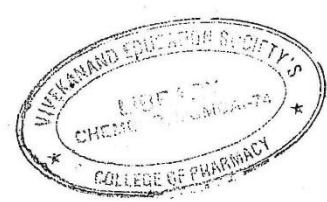
Mr. Keyur V Shastri

Assistant Professor - Department of Quality Assurance

VES COLLEGE OF PHARMACY, CHEMBUR

Hashu Advani Memorial Complex, Behind Collector Colony,  
Chembur (E), Mumbai-400074

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*MS*  
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Chembur Mumbai  
2021-2022

This is to certify seminar entitled, "NANOPARTICLES USED IN TREATMENT OF CANCER" by Ms. Anugna Vinmaye Munipalli being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2020-2021 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: CHEMBUR, MUMBAI

Date: 21-03-2022

*K.V. Shastri*

MR. KEYUR SHASTRI  
ASSTT. PROFESSOR

*gsh*  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honorable principal Dr. (Mrs.) Supriya Shidhaye for all her encouragement.

I would also like to thank the head of department of Quality Assurance, Dr. Anita Ayre for her support.


I would like to express profound gratitude and appreciation to my guide Mr. Keyur V Shastri for his valuable support, encouragement and supervision throughout my seminar work.

I would also like to appreciate the staff and librarians for all their help and cooperation.

Miss. Anugna Vinmaye Munipalli

FY M pharm (Quality Assurance)

VES College of Pharmacy

  
Dr. (Mrs.) Supriya S. Shidhaye  
Principal  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



VIVEKANAND EDUCATION SOCIETY

COLLEGE OF PHARMACY

A SEMINAR REPORT ON

**ZEBRAFISH AS A MODEL ORGANISM**  
**FOR CANCER STUDY**

Submitted By:

**Mr. Tejesh Uddhav Nagargoje**

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022


Under the guidance of

**Mrs. Pradnya Korlekar**

SR379

**VES COLLEGE OF PHARMACY, CHEMBUR**

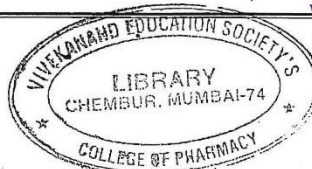
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Dr. (Mrs.) Supriya S. Shidhaye  
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# Certificate

UNIVERSITY OF MUMBAI

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Mumbai- 400071

This is to certify that the seminar entitled "ZEBRAFISH AS A MODEL ORGANISM FOR CANCER STUDY" is being submitted by Mr. Tejesh Nagargoje in the partial fulfilment of the requirement of the first semester of M. Pharm course based on his Bonafide work done in the academic year 2021-22 at VES College of Pharmacy, Chembur, Mumbai, under my guidance and supervision.



*Supriya Shidhaye*

*Pradnya Korlekar*

DR. (MRS.) SUPRIYA SHIDHAYE

MRS. PRADNYA KORLEKAR

(Principal)

(Guide)

Date: 16/03/2022

Date: 16/03/2022

Place: Chembur

Place: Chembur

*Supriya S. Shidhaye*  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL

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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honourable principal Dr. (Mrs.) Supriya Shidhaye for all her encouragement.

I would like to express profound gratitude and appreciation to my guide Mrs. Pradnya Korlekar for her valuable support, encouragement and supervision throughout my seminar work.

I would also like to thank the head of department of Quality Assurance, Dr. (Mrs.) Anita Ayre for her support.

I express a word of thanks to all teachers, senior's, computer lab staff and all technical staff for their help and cooperation.


Last but not the least, I am grateful to all the people who have helped me throughout this presentation and supported me.



Mr. Tejesh Uddhav Nagargoje

FY M Pharm (Quality Assurance)

VES College of Pharmacy.



Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy

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Chembur, Mumbai - 400 074

S/R 380

*Novel approach for delivery of topical antimicrobials*

**A SEMINAR REPORT ON**

**NOVEL APPROCHES FOR DELIVARY OF TOPICAL  
ANTIMICROBIALS**

**Submitted by:**

Ms. Mayuri Bharat Namade

M.Pharm, First Year

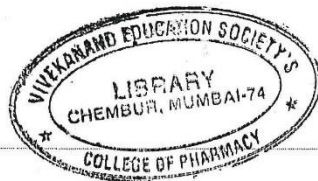
In the academic year of 2021-22

Under the guidance of  
Mrs. Ashwini Wani

S/R 380

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Behind Collectors Colony, Chembur, Mumbai-400074



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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074


## ACKNOWLEDGEMENT


I wish to express sincere thanks to Principal Dr. (Mrs.) Supriya Shidhaye and Head of Department of Quality Assurance Dr. (Mrs.) Anita Ayre for their encouragement and support.

I convey my heartfelt thanks to my guide Mrs. Ashwini Wani for her constant motivation, encouragement and support in every aspect of this work, right from the selection of topic to the literature survey, presentation and submission of this report.

I express a word of thanks to all teachers, computer lab staff, and all technical staff for their help and cooperation.

And lastly, I am grateful to all the people who have helped me throughout this presentation and supported me.

  
-Ms. Mayuri B. Namade.


  
Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai.  
2021-22

This is to certify that the seminar report entitled "NOVEL APPROCHES FOR DELIVARY OF TOPICAL ANTIMICROBIALS" is being submitted by Ms. Mayuri B. Namade in the partial fulfilment of the requirement of the first semester of M. Pharm course based on her bonafide work done in the academic year 2021-22 at VES college of Pharmacy, Chembur, Mumbai, under my guidance and supervision.

  
**DR. MRS. SUPRIYA SHIDHAYE**  
(Principle)

  
**MRS. ASHWINI WANI**  
(Guide)

Date: 15/03/2022  
Place: chembur

  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

Date: 15/03/2022  
Place: chembur

Page 3

SK 381  
1

A SEMINAR REPORT ON  
**MICROSPHERES: A NOVEL APPROACH**  
**FOR DELIVERY OF HEBAL**  
**FORMULATION**

Submitted By:

Ms. Varsha Pandey

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022

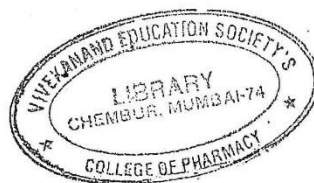
Under the guidance of

Mrs. Vidhi Bhatia

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Chembur Mumbai

2021-2022

This is to certify seminar entitled, "**MICROSPHERES: A NOVEL APPROACH FOR DELIVERY OF HERBAL FORMULATION**" by Ms. Varsha Sunil Pandey being submitted in the partial fulfilment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.


  
Mrs. Vidhi Bhatia

Place:

Chembur (Mumbai)

Date:

21/3/2022

  
Dr. (Mrs.) Supriya S. Shidhaye  
Principal  
Vivekanand Education Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honorable principle Dr. (Mrs.) Supriya Shidhaye for all her encouragement.

I would also like to thank the head of department of Quality Assurance, Dr. Anita Ayre for her support.

I would like to express profound gratitude and appreciation to my guide Mrs. Vidhi Bhatia for her valuable support, encouragement and supervision throughout my seminar work.


I would also like to appreciate the staff and librarian for all their help and cooperation.

Varsha

Miss. Varsha Sunil Pandey

FY M pharm (Quality Assurance)

VES College of Pharmacy.

  
Dr. (Mrs.) Supriya S. Shidhaye  
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Vivekanand Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

**A SEMINAR REPORT ON  
PROCESS ANALYTICAL  
TECHNOLOGY (PAT) –  
INNOVATIVE PHARMACEUTICAL  
DEVELOPMENT**

**Submitted By:**

Tanaya Nilesh Powale

M. Pharm First Year

(Quality Assurance)

In the academic year of 2021-2022

Under the guidance of

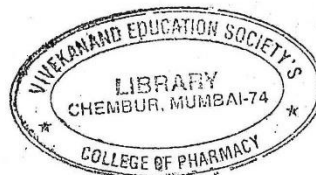
Dr. Anita Ayre

*SA*  
Dr. (Mrs.) Sushma S. Shidhaye  
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Chembur Mumbai

2021-2022

This is to certify seminar entitled, "**PROCESS ANALYTICAL TECHNOLOGY (PAT)- INNOVATIVE PHARMACEUTICAL DEVELOPMENT**" by Ms. **Tanaya Nilesh Powale** being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academic year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

Place: Mumbai

Date: 18/3/2022



Dr. Anita Ayre

Associate Professor

HOD, Dept. of Quality Assurance

VES College of Pharmacy



Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL,

Vivekanand - Education Society's  
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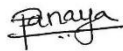
## ACKNOWLEDGEMENT

This is to express my sincere gratitude to our honorable principal Dr. (Mrs.) Supriya Shidhaye for all her encouragement.


I would like to express sincere gratitude to my guide Dr. Anita Ayre, for her valuable and impeccable guidance in every aspect of seminar work.

I am also thankful to all my classmates, seniors for their support.

I would also like to appreciate the teaching staff and librarians for all their help and cooperation.



Miss. Tanaya Nilesh Powale  
F. Y M. Pharm (Quality Assurance)  
VES College of Pharmacy



Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
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Chembur, Mumbai - 400 074

5K 000



VIVEKANAND EDUCATION SOCIETY  
COLLEGE OF PHARMACY

A SEMINAR REPORT ON  
**METHOD OF PREPARATION**  
**OF NANOSTRUCTURED LIPID**  
**CARRIER (NLC)**

Submitted By:

**Ms. Nirmiti Bipin Prabhu**

M. Pharm, First Year

(Quality Assurance)

In the academic year of 2021-2022

Under the guidance of

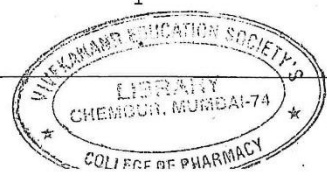
**Mrs. Pradnya Korlekar**

*PK*  
Dr. (Mrs.) Suciya S. Shidhaye  
Vivekanand Education Society's  
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HAMC, Behind Collector Colony,  
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1



## ACKNOWLEDGEMENT

This is to express my sincere gratitude to my college authorities, our honorable principle Dr. (Mrs.) Supriya Shidhaye for all her encouragement.

I would like to express profound gratitude and appreciation to my guide Mrs. Pradnya Korlekar for her valuable support, encouragement and supervision throughout my seminar work.

I would also like to thank the head of department of Quality Assurance, Dr. (Mrs.) Anita Ayre for her support.

I would also like to appreciate the staff and librarians for all their help and cooperation.



Miss. Nirmiti Bipin Prabhu  
FY M pharm (Quality Assurance)  
VES College of Pharmacy



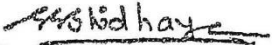
Dr. (Mrs.) Supriya S. Shidhaye  
Principal,  
Vivekanand Pharmacy Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## CERTIFICATE


**UNIVERSITY OF MUMBAI**  
VES College of Pharmacy  
Hashu Advani Memorial Complex  
Chembur Mumbai  
2021-2022

This is to certify seminar entitled, “**METHOD OF PREPARATION OF NANOSTRUCTURED LIPID CARRIERS (NLC)**” by Ms. **Nirmiti Bipin Prabhu** being submitted in the partial fulfilment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.


  
Dr. (Mrs.) Supriya Shidhaye  
(Principal)

Date: 16/03/2022  
Place: Chembur



  
Mrs. Pradnya Korlekar  
(Guide)

Date: 16/03/2022  
Place: Chembur

  
Dr. (Mrs.) Supriya S. Shidhaye  
Principal  
Vivekanand Education Society's  
College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

A SEMINAR REPORT ON  
**VALIDATION IN PHARMA**

Submitted By :

Ms. Suryawanshi Jayashri Shashikant

M. Pharm, First Year Quality Assurance


In the Academic Year of 2021-22

Under the Guidance of

Mr. K. V. Shastri.

Assistant Professor

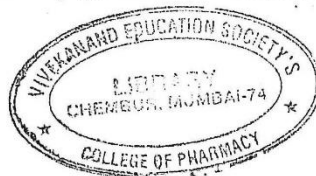
Department of Quality Assurance

  
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**VES COLLEGE OF PHARMACY, CHEMBUR.**

College Address

Hashu Advani Memorial Complex, Behind Collector Colony,  
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UNIVERSITY OF MUMBAI

VES College of Pharmacy

Hashu Advani Memorial Complex

Chembur Mumbai

2021-2022

This is to certify seminar entitled, "VALIDATION- IN PHARMA" by Ms. **Suryawanshi Jayshri Shashikant** being submitted in the partial fulfilment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the Academic Year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

*K.V. Shastri*

MR. KEYUR V. SHASTRI

ASSTT. PROFESSOR

Place: CHEMBUR, MUMBAI

Date: 21-03-2022

*gsh*  
Dr. (Mrs.) **Surya S. Shidhaye**  
PRINCIPAL  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

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
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I would also like to thank the head of department of Quality Assurance, Dr.(Mrs.) Anita Ayre for her support.

I would like to express profound gratitude and appreciation to my guide Mr. Keyur Shastri for his valuable support, encouragement and supervision throughout my seminar work.

I would also like to appreciate the staff and librarians for all their help and cooperation.

Miss. Suryawanshi Jayshri Shashikant  
F.Y.M.PHARM Quality Assurance  
VES College of Pharmacy, Chembur.

  
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HAMC, Behind Colloctor Colony,  
Chembur, Mumbai - 400 074

3

**A SEMINAR REPORT ON**

**A REVIEW OF PATENTS ON**

**SYNTHETIC MEDICINAL AGENT**

**ON COVID-19**

**SUBMITTED BY:**

**Ms. Husna Sadique Aden**

M.Pharm, First Year

In the Academic Year of 2021-2022

**Under the guidance of:**

**Dr. Mushtaque A. S. Shaikh**

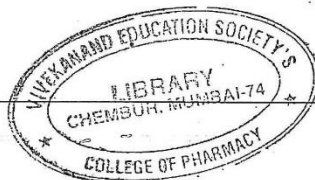
Head and Associate Professor

Dept. of Pharmaceutical Chemistry

SR385

**VES COLLEGE OF PHARMACY**

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur (E),  
Mumbai – 400 074



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College of Pharmacy  
HAMC, Behind Collector Colony,  
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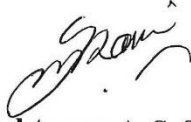
VES College of Pharmacy

Shri Hashu Advani Memorial Complex, Chembur,  
Mumbai- 400074

This is to certify that the seminar entitled - "A REVIEW OF PATENTS ON SYNTHETIC MEDICINAL AGENT ON COVID-19" is being submitted by Ms. Husna S. Aden in the partial fulfilment of the requirement of the first semester of M. Pharm course based on her bonafide work done in the academic year 2021-22 at VES College of Pharmacy, Chembur, Mumbai, under my guidance and supervision.

Place: VES COP - Chembur


Date: 15.03.2022

  
**Dr. Mushtaque A. S. Shaikh**

Head and Associate Professor

Department of Pharmaceutical Chemistry

2

  
Dr. (Mrs.) Supriya S. Shidhaye  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGMENT

I would firstly like to thank Dr. Supriya Shidhaye, Principal, VESCOP for her undying support in the excellence of her students and for providing us with the facilities and the opportunity to showcase ourselves in a positive light.

I would also like to express my gratitude to Dr. Mushtaque A. S. Shaikh, Associate Professor, for being a constant source of inspiration and motivation and consider myself fortunate to work under his guidance.

Dr. Anand Chintakrindi and Dr. Reshma Tendulkar have also been monumental in the completion of this presentation report, and I am ever grateful for their valuable insights and generous guidance.

I would also like to extend my sincere gratitude towards my senior Mr. Aaron G. Taites and all my classmates for their support and guidance in the completion of this review.

I consider myself fortunate to have the constant support and blessings of my family and friends for it is through their efforts that I have become the individual I am today.

Last but not the least I would like to thank God, for always blessing me with a good health of mind and body through all my endeavors.



-Ms. Husna S. Aden



Dr. (Mrs.) Supriya S. Shidhaye  
Principal,  
Vivekananda Education Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

**A SEMINAR REPORT ON  
THE EMERGING ROLE OF JANUS KINASE  
INHIBITORS IN THE TREATMENT OF  
AUTOIMMUNE AND INFLAMMATORY  
DISEASES.**

**Submitted By :**

**Ms. BHAIRAVEE BANDU CHIMANE**

M. Pharm, First Year

In the academic year of 2021-22

Under the Guidance of

**Dr. RESHMA TENDULKAR**

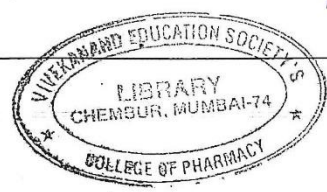
Assistant Professor,  
Dept. of Pharmaceutical Chemistry

SR 386

**VES COLLEGE OF PHARMACY**

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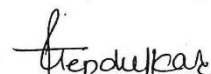
VES College of Pharmacy

Shri Hashu Advani Memorial Complex, Chembur,  
Mumbai- 400074

This is to certify that the seminar entitled - "The emerging role of Janus Kinase Inhibitors in the treatment of Autoimmune and Inflammatory diseases." is being submitted by Ms. Bhairavee Bandu chimane in the partial fulfilment of the requirement of the first semester of M. Pharm course based on her bonafide work done in the academic year 2021-22 at VES College of Pharmacy, Chembur, Mumbai, under my guidance and supervision.

Place : Mumbai

Date : 14/08/2022




Dr. Reshma Tendulkar

Assistant Professor,

Department of Pharmaceutical Chemistry

2



Dr. (Mrs.) Supriya S. Shidhaye  
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## ACKNOWLEDGMENT

I would firstly like to thank Dr. Supriya Shidhaye, Principal, VESCOP for her undying support in the excellence of her students and for providing us with the facilities and the opportunity to showcase ourselves in a positive light.

I would also like to express my gratitude to Dr. Reshma Tendulkar, Associate Professor, for being a constant source of inspiration and motivation and consider myself fortunate to work under his guidance.

Dr. Mushtaque A.S. Shaikh, Dr. Anand Chintakrindi and Mrs. Sonali Mahendale-Munj have also been monumental in the completion of this presentation report and I am ever grateful for their valuable insights and generous guidance.

I consider myself fortunate to have the constant support and blessings of my family and friends for it is through their efforts that I have become the individual I am today.

*Bhairavee*

- Ms. Bhairavee Bandu Chimane

3

*SS*  
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HAMC, Behind Collector Colony  
Chembur, Mumbai - 400 074

SR 387

A SEMINAR REPORT ON

**RECENT STATUS AND TRENDS ON  
ANTI-TUBERCULAR TARGETING**

**Submitted By:**

**Ms. Mayuri Dattatray Desai**

M. Pharm, First Year

In the academic year of 2021-2022

Under the Guidance of

**Dr. Mushtaque A. S. Shaikh**

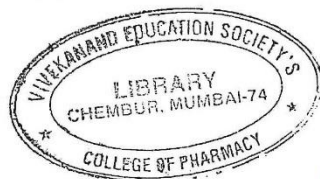
Head and Associate Professor

Dept. of Pharmaceutical Chemistry

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## ACKNOWLEDGMENT


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I would also like to express my gratitude to Dr. Mushtaque A. S. Shaikh, Associate Professor, for being a constant source of inspiration and motivation and consider myself fortunate to work under his guidance.

Dr. Anand Chintakrindi and Dr. Reshma Tendulkar have also been monumental in the completion of this presentation report and I am ever grateful for their valuable insights and generous guidance.

I consider myself fortunate to have the constant support and blessings of my family and friends for it is through their efforts that I have become the individual I am today.

Last but not the least I would like to thank God, for always blessing me with a good health of mind and body through all of my endeavours.

  
- Ms. Mayuri D. Desai

  
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Chembur, Mumbai - 400 074



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Shri Hashu Advani Memorial Complex, Chembur,

Mumbai- 400074

This is to certify that the seminar entitled —Recent status and Trends on Anti-Tubercular targets: is being submitted by Ms. Mayuri D. Desai in the partial fulfilment of the requirement of the first semester of M. Pharm course based on his bonafide work done in the academic year 2021 - 22 at VES College of Pharmacy, Chembur, Mumbai, under my guidance and supervision.

Place : VECOP, Chembur

Date : 15.03.2022



Dr. Mushtaque A. S. Shaikh

Head and Associate Professor,

Department of Pharmaceutical Chemistry



Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SR 388

**A SEMINAR REPORT ON  
CATIONIC LIPIDS: SYNTHESIS AND  
IT'S APPLICATIONS**

Submitted By:

Ms. Ghongade Kavyashree Dhananjay

M. Pharm, First Year (Pharmaceutical Chemistry)

In the academic year of 2021-22

Under the Guidance of

Dr. Anand S. Chintakrindi

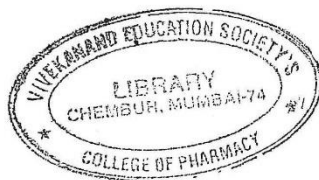
Assistant Professor,

Department Of Pharmaceutical Chemistry,

SR 388

**VES COLLEGE OF PHARMACY, CHEMBUR.**

Hashu Advani Memorial Complex, Chembur, Mumbai 400074



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Dr. (Mrs.) Supriya S. Shidhaye  
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HAMC, Behind Connector Colony,  
Chembur, Mumbai - 400 074

## Certificate

This is to certify that seminar entitled "CATIONIC LIPIDS: SYNTHESIS AND IT'S APPLICATIONS" is submitted by Ms. GHONGADE KAVYASHREE DHANANJAY as a part of coursework in partial fulfillment of the requirement for the degree of master of pharmacy at Vivekanand Education Society's College of Pharmacy affiliated to Mumbai University during the academic year 2021-2022.



**Dr. ANAND S. CHINTAKRINDI**  
Assistant Professor,

Department of Pharmaceutical  
Chemistry

Vivekananda Education Society's  
College Of Pharmacy,  
Chembur, Mumbai 400074

Date: 15-03-22

Place: Chembur,  
Mumbai


**Dr. MRS. SUPRIYA SHIDHAYE**  
Principal,

Vivekananda Education Society's

College of pharmacy, Chembur,  
Mumbai 400074

Date: 15-03-22

Place: Mumbai



**Dr. (Mrs.) Supriya S. Shidhaye**  
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Chembur, Mumbai - 400 074

## ACKNOWLEDGMENT


I would firstly like to thank Dr. Supriya Shidhaye, Principal, VESCOP for her undying support in the excellence of her students and for providing us with the facilities and the opportunity to showcase ourselves in a positive light.

I would also like to express my gratitude to, Associate Professor Dr. Mushtaque A. S. Shaikh, for being a constant source of inspiration and motivation.

I feel deeply obliged and indebted to, my guide Dr. Anand S. Chintakrindi for his personal guidance regarding each and every aspect of this work, right from selection of the topic, literature survey, and presentation up to the submission of this report.



- Ms. Kavyashree D. Ghongade



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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074  
3

**A SEMINAR REPORT ON  
SiRNA THERAPEUTICS: AN  
OVERVIEW**

**Submitted By:**

**Mr. PIYUSH D. MAHAJAN**

**M. Pharm, First Year**

**In the academic year of 2021-22**

**Under the Guidance of**

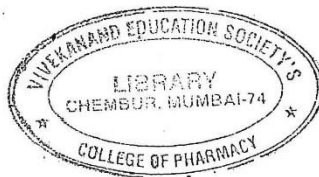
**DR.MRS. NUTAN RAO**

**ASSOCIATE PROFESSOR,**

**DEPARTMENT OF PHARMACEUTICAL  
CHEMISTRY & QUALITY ASSURANCE**

**VES COLLEGE OF PHARMACY, CHEMBUR.**

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Chembur, Mumbai - 400 074



Vivekanand Education Society's College of pharmacy, Chembur.

2021-2022

**CERTIFICATE**

This is to certify that seminar entitled "SIRNA THEREAPEUTICS AN OVERVIEW" is submitted by MR.PIYUSH D. MAHAJAN as a part of coursework in partial fulfilment of requirement for the degree of master of pharmacy at Vivekanand Education Society's College of pharmacy, Chembur. affiliated to Mumbai University during the academic year 2021-2022.

*Nutan*

DR. MRS. NUTAN RAO

Associate Professor,

Department Of Pharmaceutical Chemistry,

Vivekanand Education Society's

College of pharmacy, Chembur -400074

DR. MRS. SUPRIYA SHIDHAYE

Principal, Vivekanand Education

Society's college of pharmacy

chembur -400074

Date : 14/03/2022

Place : Chembur, Mumbai

Date :

Place :

*Supriya*  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
Vivekanand Education Society's  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGMENT

First and foremost, I bow before the Almighty for showering His blessings on me, for providing enough patience and strength that enable me to complete this dissertation successfully.

I wish to express my sincere thanks to our college management, our honorable principal madam Dr. (Mrs.) Supriya Shidhaye for her kind help and encouragement.


I feel deeply obliged and indebted to, my guide Dr. (Mrs.) Nutan Rao for her personal guidance regarding each and every aspect of this work, right from selection of the topic, literature survey, presentation up to submission of this report.

I am very grateful to say word of thanks to all my respected teachers for their time-to-time inspiration and our librarian and all technical staff for their cooperation.

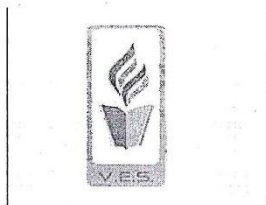
Lastly, I am very glad to say special thanks to my family members and all lovable friends for their moral support.



-Mr. PIYUSH D. MAHAJAN

  
Dr. (Mrs.) Supriya S. Shidhaye  
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HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074

SK 390



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COLLEGE OF PHARMACY

A SEMINAR REPORT ON

**IN-VITRO EVALUATION**  
**TECHNIQUES FOR SCREENING OF**  
**EFFLUX PUMP INHIBITORS.**

Submitted By:

Ms. Nikita Gangadhar Patil.

M. Pharm, First Year

(Pharmaceutical Chemistry)

In the academic year of 2021-2022

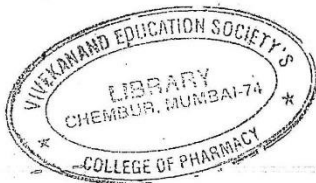
Under the guidance of

Mrs. Sonali Munj.

Assistant Professor

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Chembur (E), Mumbai-400074

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HAMC, Behind Collector Colony,  
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VES College of Pharmacy

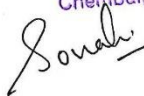
Hashu Advani Memorial Complex

Chembur Mumbai

2020-2021

This is to certify seminar entitled, "IN-VITRO EVALUATION TECHNIQUES FOR SCREENING OF EFFLUX PUMP INHIBITORS" by Ms. Nikita Gangadhar Patil being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2020-2021 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.

  
Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai - 400 074



MRS. SONALI MUNJ

Assistant Professor

Department of Pharmaceutical Chemistry

Place: Chembur.

Date: 15/3/2022

## ACKNOWLEDGEMENT


I would like to express my gratitude to my principal, Dr. (Mrs.) Supriya Shidhaye, for her unwavering support and encouragement.

Mrs. Sonali Munj, my guide, deserves my gratitude and appreciation for his continual assistance, advice, and supervision, as well as for giving vital information for the completion of my seminar.

I'd want to express my gratitude to my family and friends for their unwavering support throughout my seminar work.



Ms. Nikita Gangadhar Patil  
FY M pharm (Pharmaceutical Chemistry)  
VES College of Pharmacy.

  
Dr. (Mrs.) Supriya S. Shidhaye  
PRINCIPAL  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



VIVEKANAND EDUCATION SOCIETY  
COLLEGE OF PHARMACY

A SEMINAR REPORT ON  
**OZONE THERAPY-**  
**BOON OR BANE**

Submitted By:

Ms. Shefali Shekhar Patil

M. Pharm, First Year

(Pharmaceutical Chemistry)

In the academic year of 2021-2022

Under the guidance of

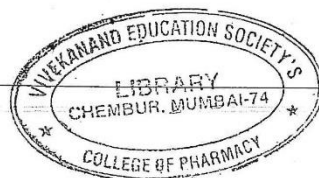
Dr. Reshma Tendulkar

Assistant Professor- Department of Pharmaceutical Chemistry

SR 391

VES COLLEGE OF PHARMACY, CHEMBUR

Hashu Advani Memorial Complex, Behind Collector Colony, Chembur  
(E), Mumbai-400074



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Dr. (Mrs.) Supriya S. Shidhaye  
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College of Pharmacy  
HAMC, Behind Collector Colony,  
Chembur, Mumbai - 400 074



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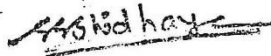
VES College of Pharmacy

Hashu Advani Memorial Complex

Chembur Mumbai

2021-2022

This is to certify seminar entitled, 'OZONE THERAPY-BOON OR BANE' by **Ms. Shefali Shekhar Patil** being submitted in the partial fulfillment of the requirement of first semester of M. Pharm course is based on her bonafide work done in the academics year 2021-2022 at VES College of Pharmacy, Chembur, Mumbai, under the guidance and supervision.




**DR. (MRS.) SUPRIYA SHIDHAYE**  
(Principal)



**DR. RESHMA TENDULKAR**  
Assistant Professor,  
Department of Pharmaceutical Chemistry

Date: 14/03/2022

Place: Mumbai



**Dr. (Mrs.) Supriya S. Shidhaye**  
Principal,  
Vivekananda Education Society's  
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HAMC, Behind Gunecor Colony,  
Chembur, Mumbai - 400 074



## ACKNOWLEDGEMENT

I would like to express my gratitude to my Principal, Dr. (Mrs.) Supriya Shidhaye, for her unwavering support and encouragement.

Dr. Reshma Tendulkar, my guide, deserves my gratitude and appreciation for his continual assistance, advice, and supervision, as well as for giving vital information for the completion of my seminar.

I'd want to express my gratitude to my family and friends for their unwavering support throughout my seminar work.

*Patil*

Ms. Shefali Shekhar Patil

FY M pharm (Pharmaceutical Chemistry)

VES College of Pharmacy.

*SS*  
Dr. (Mrs.) Supriya S. Shidhaye  
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Chembur, Mumbai - 400 074

**A SEMINAR REPORT ON  
DRUG DISCOVERY THROUGH  
CLINICAL OBSERVATION**

**Submitted By:**

**MS. ROSHNI DEEPAK POWAR**

**First Year, M. Pharm**

**In the academic year of 2021-22**

**Under the Guidance of**

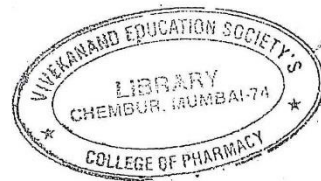
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**ASSOCIATE PROFESSOR,**

**DEPARTMENT OF PHARMACEUTICAL  
CHEMISTRY & QUALITY ASSURANCE**

**VES COLLEGE OF PHARMACY, CHEMBUR.**

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SR392

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**Vivekanand Education Society's College of pharmacy, Chembur.**

Vivekanand Education Society's College of pharmacy, Chembur.

2021-2022

**CERTIFICATE**

This is to certify that seminar entitled "DRUG DISCOVERY THROUGH CLINICAL OBSERVATION" is submitted by MS.ROSHANI DEEPAK POWAR as a part of coursework in partial fulfilment of requirement for the degree of master of pharmacy at Vivekanand Education Society's College of pharmacy, Chembur. affiliated to Mumbai University during the academic year 2021-2022.

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Principal, Vivekanand Education  
Society's college of pharmacy  
chembur -400074

Date : 14/03/2022 .  
Place : Chembur, Mumbai

Date :  
Place :

*RS*  
Dr. (Mrs.) Supriya S. Shidhaye  
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## ACKNOWLEDGEMENT

I would like to express my gratitude to my principal, Dr. (Mrs.) Supriya Shidhaye, for her unwavering support and encouragement.

Dr. (Mrs.) Nutan Rao, my guide, deserves my gratitude and appreciation for his continual assistance, advice, and supervision, as well as for giving vital information for the completion of my seminar.


I'd want to express my gratitude to my family and friends for their unwavering support throughout my seminar work.



Ms. Roshani Deepak Powar

F.Y. M pharm (Pharmaceutical Chemistry)

VES College of Pharmacy.



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SR 393

**A SEMINAR REPORT ON**  
**SCAFFOLD HOPPING**

**Submitted By: Ms Tanvi Mohan Ramugade**

**M. Pharm, First Year**

**In the academic year of 2021-2022**

**Under the Guidance of Dr. Nutan Rao**

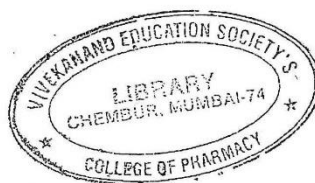
**Associate Professor**

**Dept. of Pharmaceutical Chemistry**

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SR 393



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## Certificate

UNIVERSITY OF MUMBAI

VES College of Pharmacy

Shri Hashu Advani Memorial Complex, Chembur, Mumbai- 400071

This is to certify that the seminar entitled —SCAFFOLD HOPPING is being submitted by MS. Tanvi Mohan Ramugade in the partial fulfilment of the requirement of the first semester of M. Pharm course in the academic year 2020-21 at VES College of Pharmacy, Chembur, Mumbai, under my guidance and supervision.

Place: CHEMBUR

*Nutan*  
14/3/2022

Dr. Nutan Rao

Associate Professor,

Department of Pharmaceutical

Chemistry.

*MS*  
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## ACKNOWLEDGMENT

I would firstly like to thank Dr. Supriya Shidhaye, Principal, VESCOP for her undying support in the excellence of her students and for providing us with the facilities and the opportunity to showcase ourselves in a positive light.

I would also like to express my gratitude to Dr. Nutan Rao, Associate Professor, for being a constant source of inspiration and motivation and consider myself fortunate to work under her guidance.

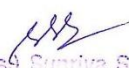
Dr. Anand Chintakrindi and Mrs. Reshma Tendulkar have also been monumental in the completion of this presentation report and I am ever grateful for their valuable insights and generous guidance.

I consider myself fortunate to have the constant support and blessings of my family and friends for it is through their efforts that I have become the individual I am today.

Last but not the least I would like to thank God, for always blessing me with a good health of mind and body through all of my endeavours.



- Ms. Tanvi Mohan Ramugade



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SR394

A SEMINAR REPORT ON

**ADJUNCTIVE NUTRACEUTICAL  
THERAPIES IN COVID-19**

Submitted By:

Ms. Neha Sanjay Sawant

M. Pharm, First year

In the academic year of 2021-22

Under the Guidance of

Dr. Reshma Tendulkar

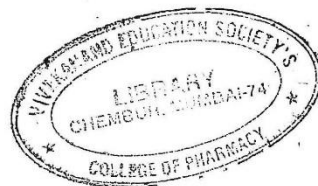
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## CERTIFICATE

This is to certify that seminar entitled “**Adjunctive nutraceutical therapies in covid-19**” is submitted by **Miss. Neha Sanjay Sawant** as a part of course work in partial fulfilment of the requirement for the degree of master of pharmacy at Vivekanand Education Society’s College of Pharmacy affiliated to Mumbai University during the academic year 2021-2022.

*Tendulkar*



*Shidhaye*

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**DR.MRS.SUPRIYA SHIDHAYE**

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**Mumbai -400074**

**Date:** 14/03/2022

**Place:** Mumbai

**Date:** 14/03/2022

**Place:** Mumbai

*SS*  
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## ACKNOWLEDGMENT

First and foremost, I bow before the Almighty for showering His blessings on me, for providing enough patience and strength that enable me to complete this dissertation successfully.

I wish to express my sincere thanks to our college management, our honourable principal madam Dr. (Mrs.) Supriya Shidhaye for her kind help and encouragement.

I feel deeply obliged and indebted to, my guide Dr. Reshma Tendulkar madam for her personal guidance regarding each and every aspect of this work, right from selection of the topic, literature survey, and presentation up to the submission of this report.


I am very grateful to say a word of thanks to all my respected teachers for their time-to-time inspiration and our librarian and all technical staff for their cooperation.

Lastly, I am very glad to say special thanks to my family members and all lovable friends for their moral support.

  
Miss. Neha Sanjay Sawant

Roll No. M-PC-11022

(Pharmaceutical Chemistry)

  
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Chembur, Mumbai - 400 074.

SR 395

A SEMINAR REPORT ON  
**COMPUTER AIDED DRUG DESIGN:  
AN OVERVIEW**

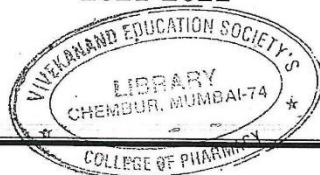
SUBMITTED TO THE  
UNIVERSITY OF MUMBAI  
FOR THE  
MASTER OF PHARMACY DEGREE  
IN  
PHARMACEUTICAL CHEMISTRY  
(Partial fulfilment for the postgraduate Degree Partly by research)

SUBMITTED BY  
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**CERTIFICATE**

This is to certify that the seminar entitled "**COMPUTER AIDED DRUG DESIGN: AN OVERVIEW**", has been submitted by **Kajal Vilas Surana** student of Master of Pharmacy, Semester I, at Vivekanand Education Society's College of Pharmacy affiliated to University of Mumbai, during the academic year 2021-2022. In Partial fulfilment of the requirement for the Degree of Master of Pharmacy.

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*14/03/2022*

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## ACKNOWLEDGEMENT

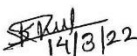
The success of any work depends on the efforts of individuals. This research project work has an eye-opener for me as it opened new vistas of information.

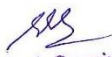
Work shall never be sufficient to describe experiences while doing a study.

I would like to thank **Dr. Mrs. Supriya Shidhaye**, Principal, her kind disciplined and invaluable guidance who inspired us to solve all the difficulties that came across during the completion of the project.

I would like to thank **Dr. Mrs. Nutan Rao**, for her personal guidance regarding each and every aspect of this work, right from selection of the topic, literature survey, presentation up to submission of this report.

Finally, I am thankful to one and all that directly and indirectly helped me in the successful completion of this project.

  
14/3/22  
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**M.Pharm (SEM I)**

  
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A SEMINAR REPORT ON  
DRUG DISCOVERY THROUGH  
METABOLISM STUDIES

Submitted By:

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First Year M.Pharm,

In the academic year of 2021-2022

Under the guidance of

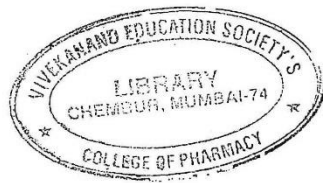
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### ACKNOWLEDGEMENT

First and foremost, I bow before the almighty for showering his blessing on me, for providing enough patience and strength that enable me to complete this seminar report successfully.

I wish to express my sincere thanks to our college management, our honorable principal madam Dr. (Mrs.) Supriya Shidhaye for her kind help and encouragement.

I feel deeply obliged and indebted to, my guide Dr. (Mrs.) Nutan Rao for her personal guidance regarding each and every aspect of this work, right from selection of the topic, literature survey, presentation up to the submission of this report.

I am very grateful to say a word of thanks to all my respected teachers for their time-to-time inspiration and our librarian and all technical staff for their cooperation.

Lastly, I am very glad to say special thanks to my family members and all lovable friends for their moral support

## CERTIFICATE

This is to certify that seminar entitled "Drug Discovery Through Metabolism ; is submitted by **MISS JAYA VARMA** as a part of coursework in partial fulfilment of the requirement for the degree of master of pharmacy at **Vivekanand Education Society's College Of Pharmacy** affiliated to Mumbai university during the academic year 2021-2022.

*date*  
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*Signature*  
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