



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S
COLLEGE OF PHARMACY (B.Pharm.)

Approved by PCI, AICTE, Govt. of Maharashtra & DTE
Affiliated to Savitribai Phule Pune University, Pune
DTE Code:- 6382 University Code:- CPHPO13150



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Hon. Shri. Sudhir V. Mungase
Secretary

Hon. Shri. Ajit D. Gavhane
Treasurer

Dr. Kishor S. Jain
Principal

1.3.3

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



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Dr. Kishor S. Jain
Principal

INDEX

Sr. No.	Title
1	List of students completed Project work & Project title
2	Certificates of Project work
3	List of students completed industrial training
4	Certificates of industrial training
5	Courses that include experiential learning through Practical Related Subjects



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1. List of Project Work Title

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी

Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.

Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)

Phone : (020) 20280280, 7447763086, 9422322070






 : www.rjspmpharmacy.com




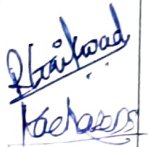


Email: rjspmcp123@gmail.com





Committed for Excellence in Education




End Semester Exam
Project Work (Sem.VIII)
A. Y. 2022-23
List of Guide, students, Topics

Sr. No.	Name of students	Name of Guide	Topic	Signature
1.	Ghule Jayraj	Mr. P. V. Rane & Ms. Madhuri Narode	Recent advances in treatment of COVID-19 A review.	
2.	Mazire Rushikesh Sadhu			
3.	Patole Sanchita Rajaram			
4.	Waghmare Sumit Siddharath			
5.	Gargote Monika Sarajerao	Mr. A. N. Phuge	A Review on Microwave synthesis & its use as a new drug discovery tool	
6.	Landge Dheeraj Bapurao			
7.	Sawant Sakshee Vishwas			
8.	Yadav Abhishek Bhausahab			
9.	Ghadge Sayali Krishnat	Ms. A. K. Thikekar	A Review on effect of Herbs on Absorption, Distribution, Metabolism and Elimination of Therapeutic Drugs	
10.	Parmeshwar Nilesh Deepak			
11.	Sathe Ganesh Suresh			
12.	Damale Atharv Anil			
13.	Kshirsagar Pratik Santosh	Ms. Shruti Pingale	Formulation and evaluation of shampoo from fruit of citrus <i>Sinensis</i>	
14.	Babar Piyush Ravindra			
15.	Newase Vaishnavi Vijay			
16.	Patil Vijay Sanjay			
17.	Dongare Mitali Dattatray	Ms. N. V. Nerkar	Formulation & evaluation of Polyherbal antifungal cream	
18.	Kurhade Hrishikesh Digambar			
19.	Mawale Suraj Anand			
20.	Ranpise Omkar Navnath			
21.	Halemani Shreedhar Mallikarjun			
22.	Bhusare Komal Dattatray			
			A brief review on Pulsatile drug	

23.	Gaikwad Onkar Sanjay	Ms. V. V. Vaidya	delivery system	
24.	Parhad Pooja Vilas			
25.	Shinde Nivrutti Laxman			
26.	Gunjal Harshad Babasaheb			
27.	Bote Sonal Margu	Ms. A. Z. Gite	An updated review nn Mucoadhesive Buccal Patch	
28.	Margale Ashwini Sitaram			
29.	Nehere Monika Namdev			
30.	Thite Chaitrali Vijay			
31.	Shete Aniket			
32.	Darade Nikita Parmeshwar	Ms. S. Adepawar	A brief review of Pharmacology of <i>Tinispora cordifolis</i> (Gulvel)	
33.	Gawade Monika Raosaheb			
34.	Jangle Pritee Sudhakar			
35.	Lahane Vishakha Sharad			
36.	Gawade Pratiksha Vitthal			
37.	Mohite Sudeshna Santajirao	Ms. Rajnigandha Gaikwad & Ms. Dhanashri Kachare	Research on the advantages and effects of Ayurvedic preparation in management of Renal Calculli.	
38.	Kalje Mansi Patilbuva			
39.	Rodage Nikita Sanjay			
40.	Kantule Manjusha Kalyanrao			
41.	Dubey Isha Amarnath	Ms. S. S. Shaikh	A brief review on Diabetes & its complications	
42.	Gholap Shweta Shivaji			
43.	Kolekar Pallavi Balu			
44.	Suryawanshi Shailkumari V.			
45.	Damse Triveni Suresh			
46.	Kadam Abhay Gorakh	Mr. A. B. Kumbhar	Gum wars: battle against Periodontitis	
47.	Buchude Reshma Savkar			
48.	Rathod Shivam Padamsing			
49.	Lohar Chaitali Atul			
50.	Shinde Siddhant Sanjay			

51.	Kanawade Chaitali Lahanu	Ms. P. S. Deorankar	Acne Vulgaris: Pathogenesis & treatment	
52.	Naikare Snehal Suresh			
53.	Pawar Supriya Anant			
54.	Bavale Sakshi Prabhakar	Dr. J. S. Dhumal	Extraction & evaluation of plants having nutraceutical value	
55.	Dunghav Nageshwar Mahadev			
56.	Gaikwad Neha Dattatray			
57.	Hole Rahul Dattatray			
58.	Kalje Swarupa Satish			
59.	Patil Sourabh Yuvraj	Mr. S. N. Ghodekar	Comparative Antimicrobial activity of some nutraceutically important plants collected from different areas of Maharashtra	
60.	Pawara Mangesh Narsing			
61.	Potwale Sachin Narsing			
62.	Waghmare Sumit Mahendra	Mr. O. H. Kolhe	Formulation of Herbal cookies (Immunity booster)	
63.	Limkar Rahul Shivaji			
64.	Dhumal Aditya Anil			
65.	Gadkar Akshay Madhavrao			
66.	Kankale Nayana Eknath			
67.	Shinde Rushikesh Vikram			
	Anarse Suraj Santosh			

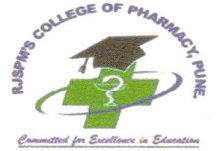

Project Co-ordinator


PRINCIPAL
Rajmata Jijau Shikshan Prasarak Mandal's
COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.



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Principal

2. Certificates of Project Work



CERTIFICATE


This is to certify that the work presented in this Project Report entitled,
***A REVIEW ON MICROWAVE SYNTHESIS AND ITS USE AS A NEW DRUG
DISCOVERY TOOL***

by

Students Name

Ms. Monika Gargote
Ms. Sakshee Sawant
Mr. Abhishek Yadav
Mr. Dheeraj Landage
(B. Pharm. Sem.VIII)

are in the partial fulfilment of activity carried out for the degree of Bachelor of Pharmacy at the RJSPTM, College of Pharmacy affiliated to Savitribai Phule Pune University, Pune (Maharashtra) and as the syllabus requirement by the Pharmacy Council of India, New Delhi, has been carried out under my guidance and supervision and is now ready for the examination.


Mr. A. N. Phuge
Associate Professor
(Pharmaceutical Chemistry)

GUIDE


Ms. P. S. Deorankar

**PROJECT WORK
CO-ORDINATOR**


Dr. K. S. Jain

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Rajmata Jijau Shikshan Prasarak Mandal's
COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.

DATE: 19/05/23


EXTERNAL

PLACE: Dudulgaon





CERTIFICATE

This is to certify that the work presented in this Practice School Report entitled,
**EXPLORING THE WONDERS OF *TINOSPORA CORDIFOLIA* (Guduchi):
A PHARMACOLOGICAL JOURNEY**

By,

**Ms. Nikita P. Darade
Ms. Pritee S. Jangle
Ms. Pratiksha V. Gawade
Ms. Monika R. Gawade
Ms. Vishakha S. Lahane**

(B. Pharm. Sem.VIII)

Is in the partial fulfilment of activity carried out for the degree of Bachelor of Pharmacy at the RJSPM, College of Pharmacy affiliated to Savitribai Phule Pune University, Pune (Maharashtra) and as the syllabus requirement by the Pharmacy Council of India-New Delhi, has been carried out under my guidance and supervision and is now ready for the examination.

Ms. S. P. Adepawar
Assistant Professor
(Pharmaceutical Chemistry)
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Ms. P. S. Deorankar
**PROJECT WORK
CO-ORDINATOR**

Dr. K. S. Jain
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COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.

DATE: 19/05/2023

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PLACE: Dudulgaon





CERTIFICATE

This is to certify that the work presented in this Project Report entitled,
AN UPDATED REVIEW ON MUCOADHESIVE BUCCAL PATCH

by

Students Name

Ms. Monika Nehere

Ms. Sonal Bote

Ms. Chaitrali Thite

Ms. Ashwini Margale

Mr. Aniket Shete

(B. Pharm. Sem.VIII)

Are in the partial fulfilment of activity carried out for the degree of Bachelor of Pharmacy at the RJSPM, College of Pharmacy affiliated to Savitribai Phule Pune University, Pune (Maharashtra) and as the syllabus requirement by the Pharmacy Council of India, New Delhi, has been carried out under my guidance and supervision and is now ready for the examination.

Ms. A. Z. Gite
GUIDE
Assistant Professor
(Pharmaceutics)

Ms. P. S. Deorankar
PROJECT WORK
CO-ORDINATOR

Dr. K. S. Jain
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Rajmata Jijau Shikshan Prasarak Mandal's
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Dudulgaon, Pune-412 105.

DATE: 19 May 2023

Mr. N. M. Galwad
EXTERNAL

PLACE: Dudulgaon





CERTIFICATE

This is to certify that the work presented in this Project Report entitled,
**REVIEW ON DIABETES MELLITUS: IT'S COMPLICATIONS AND
HERBAL ANTI-DIABETIC REMEDIES**

by

Ms. Pallavi Kolekar
Ms. Shweta Gholap
Ms. Isha Dubey
Ms. Shaikumari Suryawanshi
Ms. Triveni Dams
(B. Pharm. Sem.VIII)

Is in the partial fulfilment of activity carried out for the degree of Bachelor of Pharmacy at the RJSPM's College of Pharmacy affiliated to Savitribai Phule Pune University, Pune (Maharashtra) and as the syllabus requirement by the Pharmacy Council of India, New Delhi, has been carried out under my guidance and supervision and is now ready for the examination.

Ms. S. S. Shaikh
Assistant Professor (Pharmacology)
GUIDE

Ms. P. S. Deorankar
PROJECT WORK
CO-ORDINATOR

Dr. K. S. Jain

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COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.

DATE: 20/05/2023

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CERTIFICATE

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**A BRIEF REVIEW ON RECENT ADVANCES IN ORAL PULSATILE DRUG
DELIVERY SYSTEM**

by

Students Name

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Mr. Shinde Nivrutti

Mr. Gaikwad Onkar

Ms. Bhusare Komal

Mr. Gunjal Harshad

(B. Pharm. Sem.VIII)

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Ms. Vipra R. Vaidya
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Ms. P. S. Deorankar

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CO-ORDINATOR

Dr. K. S. Jain

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DATE: 20/05/2023

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PLACE: Dudulgaon





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This is to certify that the work presented in this Project Report entitled,
ACNE VULGARIS: PATHOGENESIS AND CURRENT TREATMENT
APPROACHES

by

Students Name

Ms. Chaitali Kanawade
Ms. Snehal Naikare
Ms. Supriya Pawar
Ms. Sakshi Bavale
Mr. Nageshwar Dunghav
(B. Pharm. Sem. VIII)

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Ms. P. S. Deorankar
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Ms. P. S. Deorankar
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Dr. K. S. Jain

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Dudulgaon, Pune-412 105.
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DATE: 19/05/23

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CERTIFICATE

This is to certify that the work presented in this Project Report entitled,
PHYTOCHEMICALS AS A NUTRACEUTICALS, A REVIEW

By,

Mr. Gadhave Rahul Uttamrao

Mr. Gatkal Abhishekh Suhas

Mr. Tathe Abhijeet Popat

Ms. Kirve Prajkta Rajendra

(B. Pharm. Sem. VIII)

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Dr. J. S. Dhumal

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Ms. P. S. Deorankar

ACADEMIC RESEARCH CO-ORDINATOR

Dr. K. S. Jain

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DATE: 24/05/2022



PLACE: DUDULGAON



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Associate Professor
(Pharmaceutical Chemistry)

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PLACE: Dudulgaon

DATE: 19/05/23





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This is to certify that the work presented in this Project Report entitled,
Recent Advances in Treatment of COVID-19 - A Review

by

Mr. Ghule Jayraj Dinkar
Mr. Mazire Rushikesh Sadhu
Ms. Patole Sanchita Rajaram
Mr. Waghmare Sumit Siddharth
(B. Pharm. Sem.VIII)

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MR. P. V. RANE
Associate Professor
(Pharmaceutical Chemistry)
GUIDE

Ms. P. S. Deorankar
PROJECT WORK
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Dr. K. S. Jain
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Dudulgaon, Pune-412 105.

DATE: 19/05/23

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PLACE: Dudulgaon





CERTIFICATE

This is to certify that the work presented in this Project Report entitled,
**FORMULATION, DEVELOPMENT AND EVALUATION OF
POLYHERBAL ANTIFUNGAL CREAM**

by

Students Name

Mr. Suraj Anand Mawale
Mr. Hrishikesh Digambar Kurhade
Ms, Mitali Dattatray Dongare
Mr. Shreedhar Mallikarjun Halemani
Mr. Omkar Navnath Ranpise

(B. Pharm. Sem.VIII)

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Ms. N. V. Nerkar
Assistant Professor (Pharmaceutics)

GUIDE

Ms. T. S. Deorankar

PROJECT WORK
CO-ORDINATOR

Dr. K. S. Jain

PRINCIPAL
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Rajmata Jijau Shikshan Prasarak Mandals
COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.

DATE: 19/05/23

Dr. N. M. Gaitwad
EXTERNAL

PLACE: Dudulgaon





CERTIFICATE

This is to certify that the work presented in this Project Report entitled,
***EFFECT OF ELICITORS ON SOME IMPORTANT PLANTS USED IN
NUTRACEUTICAL***

By,

Students Name

Mr. Satyawan Gutte
Mr. Ninad Parhad
Mr. Ashu Singh
Mr. Aditya Suryawanshi
Ms. Rutika Suryawanshi
(B. Pharm. Sem. VIII)

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Mr. S. N. Ghodekar

GUIDE

Assistant Professor
(Pharmacognosy)

Ms. P. S. Deorankar

ACADEMIC RESEARCH CO-ORDINATOR

Dr. K.S. Jain

PRINCIPAL

RJSPM's College of Pharmacy

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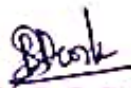
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20/05/23

Ms. S. S. Shaikh
Assistant Professor (Pharmacology)
GUIDE



Ms. P. S. Deorankar

PROJECT WORK
CO-ORDINATOR



Dr. N. S. Jain

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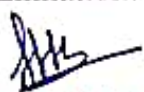
FORMULATION AND EVALUATION OF SHAMPOO FROM CITRUS SINENSIS (SWEET ORANGE)

By,
Students Name

**Mr. Pratik Santosh Kshirsagar
Mr. Vijay Sanjay Patil
Mr. Piyush Ravindra Babar**

(B.Pharm. Sem.VIII)

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Ms. S. V. Pingale

GUIDE

Assistant Professor

(Pharmaceutical Chemistry Department)


Ms. P. S. Deorankar
Project Work Co-Ordinator



Dr. K. S. Jadhav

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Ms. Vipra R. Vaidya
Assistant Professor (Pharmaceutics)

GUIDE

Ms. P. S. Deorankar

**PROJECT WORK
CO-ORDINATOR**

Dr. K. S. Jain

**PRINCIPAL
PRINCIPAL**

Rajmata Jijau Shikshan Prasarak Mandals
COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.

DATE: 20/05/2023

Dr. N. M. Gaikwad
EXTERNAL

PLACE: Dudulgaon





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Hon. Shri. Ajit D. Gavhane
Treasurer

Dr. Kishor S. Jain
Principal


3. List of Students Completed Industrial Training

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी

Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.

Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)

Phone : (020) 20280280, 7447763086, 9422322070

 : www.rjspmpharmacy.com

Email: rjspmcp123@gmail.com

Committed for Excellence in Education

     /rjspmpharmacy



RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S
COLLEGE OF PHARMACY (B.Pharm.)

Approved by PCI, AICTE, Govt. of Maharashtra & DTE
Affiliated to Savitribai Phule Pune University, Pune
DTE Code:- 6382 University Code:- CPHPO13150



Certified by ISO 9001-2015,
ISO : 14001-2015

Recognised as Green Educational
Campus

Hon. Shri. Vilasrao V. Lande
President

Hon. Shri. Sudhir V. Mungase
Secretary


Hon. Shri. Ajit D. Gavhane
Treasurer

Dr. Kishor S. Jain
Principal

List of students completed Industrial Training in A. Y. 2022-23

Sr. No	Name of Student	Duration	Name of Industry
1	Bote Sonal Margu	11/07/2022 to 10/08/2022	Hindustan Antibiotics
2	Damse Triveni Suresh	11/07/2022 to 10/08/2022	Hindustan Antibiotics
3	Dubey Isha Amarnath	10/09/2022 to 10/10/2022	Nulife Pharmaceuticals
4	Gaikwad Neha Dattatray	10/07/2022 to 10/08/2022	Hindustan Antibiotics
5	Gawade Monika Raosaheb	30/07/2022 to 30/08/2022	Nulife Pharmaceuticals
6	Halemani Shreedhar M.	25/06/2022 to 25/07/2022	Nulife Pharmaceuticals
7	Kshirsagar Pratik Santosh	23/07/2022 to 23/08/2022	Nulife Pharmaceuticals
8	Kurhade Hrishikesh D.	30/07/2022 to 30/08/2022	Nulife Pharmaceuticals
9	Mazire Rushikesh Sadhu	30/07/2022 to 30/08/2022	Nulife Pharmaceuticals
10	Nehere Monika Namdev	30/07/2022 to 30/08/2022	Nulife Pharmaceuticals
11	Parhad Pooja Vilas	30/08/2022 to 30/09/2022	Nulife Pharmaceuticals
12	Patole Sanchita Rajaram	05/07/2022 to 04/08/2022	Nulife Pharmaceuticals
13	Pawar Supriya Anant	11/07/2022 to 10/08/2022	Hindustan Antibiotics
14	Suraj Anand Mawale	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
15	Dongare Mitali	15/10/2022 to 15/11/2022	Nulife Pharmaceutical
16	Mohite sudeshna	12/11/2022 to 12/12/2022	Nulife Pharmaceuticals
17	Margale Ashwini Sitaram	01/09/2022 to 30/09/2022	T. WAWALKER Pharmaceuticals
18	Kalaje Swarupa	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
19	Landage Dheeraj	15/10/2022 to 15/11/2022	Nulife Pharmaceutical
20	Bavale Sakshi	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
21	Chaitali Lohar	23/07/2022 to 23/08/2022	Nulife Pharmaceuticals
22	Mansi kalje	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
23	Komal Bhusare	12/11/2022 to 12/12/2022	Nulife Pharmaceuticals
24	Reshma Buchude	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
25	Nikita Darade	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
26	Sayali Ghadge	15/10/2022 to 15/11/2022	Nulife Pharmaceuticals
27	Pritee Jangale	12/11/2022 to 12/12/2022	Nulife Pharmaceuticals
28	Chaitali Kanawade	12/11/2022 to 12/12/2022	Nulife Pharmaceuticals




PRINCIPAL
Rajmata Jijau Shikshan Prasarak Mandal's
COLLEGE OF PHARMACY
Dudulgaon, Pune-412 105.

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी
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Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)
Phone : (020) 20280280, 7447763086, 9422322070

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President

Hon. Shri. Sudhir V. Mungase
Secretary

Hon. Shri. Ajit D. Gavhane
Treasurer

Dr. Kishor S. Jain
Principal


4. Certificates of Industrial Training

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी

Gat No.101/102, Moshi-Alandi Road, Dudulgaon, Pune.

Post-Alandi, Tal.: Haveli, Pune-412105, Maharashtra (India)

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HINDUSTAN ANTIBIOTICS LIMITED

(A GOVT. OF INDIA ENTERPRISE)

PIMPRI, PUNE - 411 018.

TRG/BPHARMTR/3156/21-22

August 10, 2022

CERTIFICATE

This is to certify that Miss Supriya Anant Pawar B. Pharm student of Rajmata Jijau Shikshan Prasarak Mandal's College of Pharmacy Moshi Alandi Road, Pune has completed One Month Industrial Internship at Organization from 11/07/2022 to 10/08/2022.

For HINDUSTAN ANTIBIOTICS LIMITED

(Ms. Sunita N. Shivatare)

Sr. Officer (Legal/Welfare & Training)

सुनिता शिवतारे / Sunita Shivatare

Senior Welfare Officer

Senior Personnel Officer

Organic Division H.A.L. LTD.

Plot PIMPRI, PUNE - 411018



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy
Dudulgaon, Pune – 412 105

Date: 12th Dec., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Komal Dattatray Bhusare student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Dudulgaon, Pune – 412 105 has successfully completed his / her one month In - Plant training during 12th Nov., 2022 to 12th Dec., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

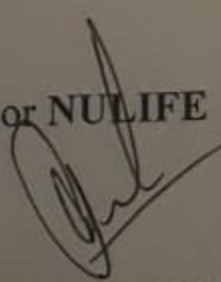
CERTIFICATE

This is to certify that Mr. / Ms. Swarupa Satish Kalje student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS


SUDHIR DEVALE
HR MANAGER



T. WALKER'S PHARMACEUTICALS PVT. LTD.

Resi. : "Vishnupad", 5th Lane, Subhashnagar, 1253, Shukrawar Peth, Pune - 411 002.

Phone : (020) 24475959 Telefax : (020) 24467699

E-mail: t.walker1916@gmail.com

Ref. No. :-TWPPPL/PN4022113/2022

Date:-01/10/2022

CERTIFICATE

This is to certify that **Miss. Margale Ashwini Sitaram** from Rajmata jijau shikshan prasark mandal's college of pharmacy Moshi- Alandi road, Pune. Has taken training in our production & Q.C. department from 01/09/2022 to 30/09/2022.

For

T.WALKER'S PHAMACEUTICALS PVT. LTD. PUNE

PLANT INCHARGE

T-WALKER'S

PHARMACEUTICALS PVT. LTD

GAT.No.258-B, KASARAMBOLI,

TAL-MULSHI, DIST-PUNE-412115



HINDUSTAN ANTIBIOTICS LIMITED

(A GOVT. OF INDIA ENTERPRISE)

PIMPRI, PUNE - 411 018.

TRG/BPHARMTR/3155/21-22

August 10, 2022

CERTIFICATE

This is to certify that Miss Sonal Margu Bote B. Pharm student of Rajmata Jijau Shikshan Prasarak Mandal's College of Pharmacy Moshi Alandi Road, Pune has completed One Month Industrial Internship at our Organization from 11/07/2022 to 10/08/2022.

For HINDUSTAN ANTIBIOTICS LIMITED

(Ms. Sunita N. Shivatare)
Sr. Officer (Legal/Welfare & Training)

सुनिता शिवतारे Sunita Shivatare

HINDUSTAN ANTIBIOTICS LIMITED
PIMPRI, PUNE - 411 018



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune -412 105

Date: 12th Jan., 2023

CERTIFICATE

This is to certify that Mr. /Ms. Reshma Savkar Buchude student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune -412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His /Her attendance was regular and conduct was satisfactory.

Best wishes for his /her future.

For **NULIFE PHARMACEUTICALS**

SUDHIR DEVALE
HR MANAGER



HINDUSTAN ANTIBIOTICS LIMITED

(A GOVT. OF INDIA ENTERPRISE)

PIMPRI, PUNE - 411 018.

TRG/BPHARMTR/3153/21-22

August 10, 2022

CERTIFICATE

This is to certify that Miss Triveni Suresh Damse B. Pharm
student of Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy Moshi Alandi Road, Pune has completed One
Month Industrial Internship at our Organization from
11/07/2022 to 10/08/2022.

For HINDUSTAN ANTIBIOTICS LIMITED

(Ms. Sunita N. Shivatare)
Sr. Officer (Legal/Welfare & Training)

सुनिता शिवतारे/Sunita Shivatare
संयुक्त कार्मिक अधिकारी
Sr. Officer Personnel Officer
हिन्दुस्तान एंटीबायोटिक्स लि. H.A. LTD.
पिंपरी PIMPRI, पुणे PUNE- 411018.



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Nikita Parmeshwar Darade student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his/her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS


SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy
Dudulgaon, Pune - 412 105

Date: 12th Dec., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Neha Dattatray Gaikwad student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Dudulgaon, Pune - 412 105 has successfully completed his / her one month In - Plant training during 12th Nov., 2022 to 12th Dec., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 30th Aug., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Monika Raosaheb Gawade student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 30th July, 2022 to 30th Aug., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS


SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Sayali Krishnat Ghadge student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For **NULIFE PHARMACEUTICALS**

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 25th July, 2022

CERTIFICATE

This is to certify that Mr. / ~~Ms.~~ Shreedhar Mallikarjun Halemani student of B. Pharm Third year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / ~~her~~ one month In-plant training during 25th June, 2022 to 25th July, 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / ~~Her~~ attendance was regular and conduct was satisfactory.

Best wishes for his / ~~her~~ future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy
Dudulgaon, Pune – 412 105

Date: 12th Dec., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Pritee Sudhakar Jangle student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Dudulgaon, Pune – 412 105 has successfully completed his/her one month In - Plant training during 12th Nov., 2022 to 12th Dec., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For **NULIFE PHARMACEUTICALS**

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy
Dudulgaon, Pune - 412 105

Date: 12th Dec., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Chaitali Lahanu Kanawade student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Dudulgaon, Pune - 412 105 has successfully completed his / her one month In - Plant training during 12th Nov., 2022 to 12th Dec., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For **NULIFE PHARMACEUTICALS**

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 23rd Aug., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Pratik Santosh Kshirsagar student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 23rd July, 2022 to 23rd Aug., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 23rd Aug., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Chaitali Atul Lohar student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 23rd July, 2022 to 23rd Aug., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Landge Dheeraj Bapurao student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Suraj Anand Mawale student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS


SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Sanchita Rajaram Patole student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 30th Aug., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Monika Namdev Nehere student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 30th July, 2022 to 30th Aug., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 30th Aug., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Rushikesh Sadhu Mazire student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 30th July, 2022 to 30th Aug., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 13th Sept., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Pooja Vilas Parhad student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105, has successfully completed his / her one month In - Plant training during 13th Aug., 2022 to 13th Sept., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Mansi Patilbua Kalje student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For **NULIFE PHARMACEUTICALS**

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Sakshi Prabhakar Bavale student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For **NULIFE PHARMACEUTICALS**

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 10th Oct., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Isha Amarnath Dubey student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 10th Sept., 2022 to 10th Oct., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 30th Aug., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Hrishikesh Digambar Kurhade student of B. Pharm Third Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 30th July, 2022 to 30th Aug., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

for Nulife

SUDHIR DEVALE
HR MANAGER



To,
In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy, Gat No. 101, 102
Dudulgaon, Moshi - Alandi Road
Pune - 412 105

Date: 15th Nov., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Mitali Dattatray Dongare student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Gat No. 101,102, Dudulgaon, Moshi - Alandi Road, Pune - 412 105 has successfully completed his / her one month In - Plant training during 15th Oct., 2022 to 15th Nov., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

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HR MANAGER



To,
In-Charge Training and Placement Cell
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College of Pharmacy
Dudulgaon, Pune - 412 105

Date: 12th Dec., 2022

CERTIFICATE

This is to certify that Mr. / Ms. Sudeshna Santajirao Mohite student of B. Pharm Final Year of Rajmata Jijau Shikshan Prasarak Mandal's, College of Pharmacy, Dudulgaon, Pune - 412 105 has successfully completed his / her one month In - Plant training during 12th Nov., 2022 to 12th Dec., 2022 in Nulife Pharmaceuticals Pimpri, Pune.

His / Her attendance was regular and conduct was satisfactory.

Best wishes for his / her future.

For NULIFE PHARMACEUTICALS

SUDHIR DEVALE
HR MANAGER



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In-Charge Training and Placement Cell
Rajmata Jijau Shikshan Prasarak Mandal's
College of Pharmacy
Dudulgaon, Pune – 412 105

Date: 12th Dec., 2022

CERTIFICATE

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Best wishes for his / her future.

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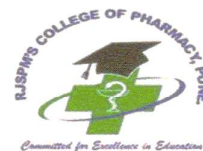


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**Courses that include experiential
learning through Practical Related
Subjects
A. Y. 2023-24**

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**List of Courses that include experiential learning through
project work/fieldwork/internship A. Y. 2022-23**

Sr. No.	Name of Course	No. of Students	Duration	Place
1	Project Work	68	One Semester	Pharmacy Labs
2	Internship	28	One Month	Pharmaceutical Industry
3	Courses that include experiential learning through Practical Related Subjects			
4	Human Anatomy and Physiology – I Practical	68	One Semester	Pharmacology lab
5	Pharmaceutical Analysis I – Practical	68	One Semester	Pharmaceutical analysis lab
6	Pharmaceutical Inorganic Chemistry – Practical	68	One Semester	Pharmaceutical chemistry
7	Communication skills – Practical	68	One Semester	Computer lab
8	Human Anatomy and Physiology II – Practical	68	One Semester	pharmacology
9	Pharmaceutical Organic Chemistry I	68	One Semester	Pharmaceutical chemistry
10	Biochemistry	68	One Semester	Pharmaceutical chemistry
11	Computer Applications in Pharmacy	76	One Semester	Computer lab
12	Pharmaceutical Organic Chemistry II	76	One Semester	Pharmaceutical chemistry
13	Physical Pharmaceutics I	76	One Semester	Pharmaceutics lab
14	Pharmaceutical Microbiology	76	One Semester	Pharmaceutics lab
15	Pharmaceutical Engineering	76	One Semester	Pharmaceutics lab
16	Medicinal Chemistry I – Practical	76	One Semester	Pharmaceutical chemistry
17	Physical Pharmaceutics II – Practical	76	One Semester	Pharmaceutics lab
18	Pharmacology I – Practical	76	One Semester	Pharmacology lab
19	Pharmacognosy and Phytochemistry I – Practical	76	One Semester	Pharmacognosy lab

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20	Industrial Pharmacy	73	One Semester	Pharmaceutics lab
21	Pharmacology II – Practical	73	One Semester	Pharmacology lab
22	Pharmacognosy and Phytochemistry II – Practical	73	One Semester	Pharmacognosy lab
23	Medicinal chemistry III – Practical	73	One Semester	Pharmaceutical chemistry
24	Pharmacology III – Practical	73	One Semester	Pharmacology lab
25	Herbal Drug Technology – Practical	73	One Semester	Pharmacognosy lab
26	Instrumental Methods of Analysis – Practical	67	One Semester	Pharmaceutical chemistry

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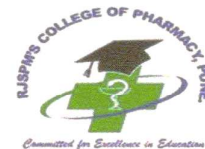


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Syllabus for Practical related subjects

Sr. No.	Class & Syllabus Pattern	Subjects	Subject Code	Syllabus
1.	F. Y. B. Pharm; 2019 Pattern	Human Anatomy and Physiology – Practical	BP107P	1. Study of compound microscope. 2. Microscopic study of epithelial and connective tissue. 3. Microscopic study of muscular and nervous tissue. 4. Identification of axial bones 5. Identification of appendicular bones. 6. Introduction to haemocytometer. 7. Enumeration of white blood cell (WBC) count. 8. Enumeration of total red blood corpuscles (RBC) count. 9. Determination of bleeding time 10. Determination of clotting time 11. Estimation of haemoglobin content. 12. Determination of blood group. 13. Determination of erythrocyte sedimentation rate (ESR). 14. Determination of heart rate and pulse rate. 15. Recording of blood pressure. 16. Visit to Blood bank.

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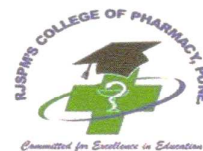
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2	F. Y. B. Pharm; 2019 Pattern	Pharmaceutical Analysis I – Practical	BP108P	<p>I. Preparation and standardization of</p> <p>(1) Aq. Sodium Hydroxide I. P. (2) Aq. Sulphuric Acid I. P./ Aq. Hydrochloric Acid I. P. (3) Aq. Sodium Thiosulfate I. P. (4) Aq. Potassium Permanganate I. P. (5) Aq. Ceric Ammonium Sulphate I. P. 3 turns</p> <p>II. Assay of the following compounds along with Standardization of Titrant</p> <p>(1) Ammonium chloride by acid-base titration (2) Sodium benzoate I. P. by non-aqueous titration (3) Sodium chloride I. P. by precipitation titration (4) Calcium gluconate I. P. by complexometry (5) Hydrogen peroxide I. P./B. P. by Permanganometry (6) Ferrous sulphate I. P. by cerimetry (7) Copper sulphate I. P. by iodometry 8 turns</p> <p>III. Determination of Normality by electro-analytical methods</p> <p>(1) Conductometric titrations of strong acid against strong base (2) Conductometric titration of strong acid and weak acid against strong base (3) Potentiometric titration of strong acid against strong base (Using Sigmoidal and First order derivative plot) 3 turns</p> <p>IV. Measurement of refractive index of some samples (Glycerol, Water, Rectified Spirit, Castor Oil I. P.)</p>
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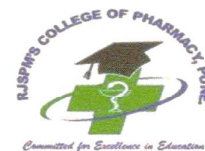
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3	F. Y. B. Pharm; 2019 Pattern	Pharmaceutics I – Practical	BP109P	1. Syrups a) Syrup IP'66 b) Compound syrup of Ferrous Phosphate BPC'68 2. Elixirs a) Piperazine citrate elixir b) Paracetamol pediatric elixir 3. Linctus a) Terpin Hydrate Linctus IP'66 b) Iodine Throat Paint (Mandles Paint) 4. Solutions a) Strong solution of ammonium acetate b) Cresol with soap solution c) Lugol's Solution 5. Suspensions (Any two experiments) a) Calamine lotion b) Magnesium Hydroxide mixture c) Aluminium Hydroxide gel 6. Emulsions a) Turpentine Liniment b) Liquid paraffin emulsion 7. Powders and Granules (Any three experiments) a) ORS powder (WHO) b) Effervescent granules c) Dusting powder d) Divided powders 8. Suppositories (Any two experiments) a) Glycerol gelatin suppository b) Cocoa butter suppository c) Zinc Oxide suppository 8. Semisolids (Any two experiments) a) Sulphur ointment b) Non staining-iodine ointment with methyl salicylate c) Carbopol gel 42 9. Gargles and Mouthwashes a) Iodine gargle b) Chlorhexidine mouthwash
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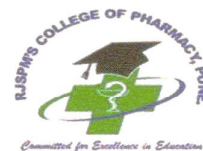
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4	F. Y. B. Pharm; 2019 Pattern	Pharmaceutical Inorganic Chemistry – Practical	BP110P	<p>I. Limit Test of the following:</p> <p>(1) Chloride (2) Sulphate (3) Iron (4) Arsenic (5) Lead (6) Heavy metals 6 turns</p> <p>II. Identification test</p> <p>(1) Magnesium hydroxide (2) Ferrous sulphate (3) Sodium bicarbonate (4) Calcium gluconate (5) Copper sulphate 3 turns</p> <p>III. Test for purity</p> <p>(1) Swelling power of Bentonite (2) Neutralizing capacity of Aluminum hydroxide gel (3) Determination of Potassium iodate and iodine in Potassium Iodide 3 turns</p> <p>IV. Preparation of Inorganic Pharmaceuticals</p> <p>(1) Boric acid (2) Potash alum (3) Ferrous sulphate</p>
5	F. Y. B. Pharm; 2019 Pattern	Communication skills – Practical	BP111P	<p>The following learning modules are to be conducted using wordsworth® English language lab software Basic communication covering the following topics</p> <ol style="list-style-type: none"> Meeting People Asking Questions Making Friends What did you do? Do's and Dont's Pronunciations covering the following topics Pronunciation (Consonant Sounds) Pronunciation and Nouns Pronunciation (Vowel Sounds) Advanced Learning Listening Comprehension / Direct and Indirect Speech Figures of Speech Effective Communication Writing Skills Effective Writing Interview Handling Skills E-Mail etiquette Presentation Skills

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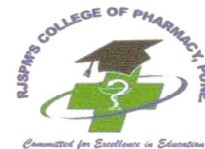




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6	F. Y. B. Pharm; 2019 Pattern	Remedial Biology – Practical*	BP112RBP	1. Introduction to experiments in biology a) Study of Microscope b) Section cutting techniques c) Mounting and staining d) Permanent slide preparation 2. Study of cell and its inclusions 3. Study of Stem, Root, Leaf, seed, fruit, flower and their modifications 4. Detailed study of frog by using computer models 5. Microscopic study and identification of tissues pertinent to Stem, Root Leaf, seed, fruit and flower 6. Identification of bones 7. Determination of blood group 8. Determination of blood pressure 9. Determination of tidal volume
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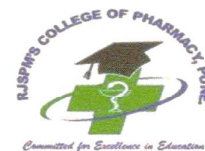
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7	F. Y. B. Pharm; 2019 Pattern	Human Anatomy and Physiology II – Practical	BP207P	<ol style="list-style-type: none">1. To study the integumentary and special senses using specimen, models, etc.,2. To determine the Platelet count.3. To perform the differential leukocyte count (DLC).4. To determine the Arneht index.5. Determination of osmotic fragility of RBCs.6. To study the nervous system using specimen, models, etc.,7. To study the endocrine system using specimen, models, etc8. To demonstrate the general neurological examination9. To demonstrate the function of olfactory nerve10. To examine the different types of taste.11. To demonstrate the visual acuity12. To demonstrate the reflex activity13. Recording of body temperature14. To demonstrate positive and negative feedback mechanism.15. Determination of tidal volume and vital capacity.16. Study of Digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.17. Recording of basal mass index.18. Study of family planning devices and pregnancy diagnosis test. 5919. Demonstration of total blood count by cell analyzer.20. Permanent slides of vital organs and gonads.21. Visit to Hospital/ Pathology Laboratory.
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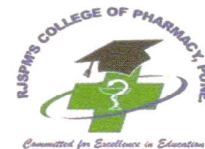
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8	F. Y. B. Pharm; 2019 Pattern	Pharmaceutical Organic Chemistry I	BP208P	<p>I. Safety measures in an organic laboratory. 1 turn</p> <p>II. Introduction to laboratory techniques: Calibration of thermometer, melting point, boiling point, distillation, and crystallization. 3 turns</p> <p>III. Systematic qualitative analysis of unknown organic compounds (min 05)</p> <ol style="list-style-type: none"> 1. Preliminary test: color, odour, aliphatic/aromatic compounds, saturation and unsaturation, etc. 2. Detection of elements like nitrogen, sulphur and halogen by Lassaigne's test. 3. Solubility test 4. Functional group test like phenols, amides, carbohydrates, amines, carboxylic acids, aldehydes and ketones, alcohols, esters, aromatic and halogenated hydrocarbons, nitro compounds and anilides. 5. Melting point/Boiling point of organic compounds. 6. Identification of the unknown compound from the literature using melting point/ boiling point. 8 turns <p>IV. Preparation of suitable solid derivatives from organic compounds 2 turns</p> <p>V. Building of molecular models of structures containing various functional groups</p>
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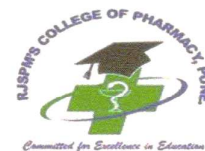
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9	F. Y. B. Pharm; 2019 Pattern	Biochemistry	BP209P	Qualitative analysis of carbohydrates (Glucose, Fructose, Lactose, Maltose, Sucrose and Starch) 3 turns 2. Identification tests for amino acids (any one aromatic and one aliphatic) 1 turn 3. Identification tests for proteins (albumin and casein) 1 turn 4. Qualitative analysis of urine for abnormal constituents (at least four abnormal constituents) 2 turns 5. Determination of blood creatinine 1 turn 6. Determination of blood sugar by Folin-Wu method/Glucose-oxidase method 1 turn 7. Determination of serum total cholesterol. 1 turn 8. Preparation of buffer solution and measurement of pH (any two). 1 turn 9. Quantitative analysis of reducing sugars (DNSA method) and Proteins (Biuret method). 1 turn 10. Determination of salivary amylase activity. 1 turn 11. Study the effect of temperature on salivary amylase activity. 1 turn 12. Study the effect of substrate concentration on salivary amylase activity.
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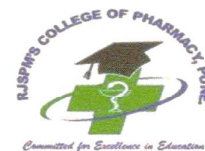
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10	F. Y. B. Pharm; 2019 Pattern	Computer Applications in Pharmacy	BP210P	<ol style="list-style-type: none">1. Design a questionnaire using a word processing package to gather information about a particular disease.2. Create a HTML web page to show personal information.3 Retrieve the information of a drug and its adverse effects using online tools4 Creating mailing labels Using Label Wizard , generating label in MS WORD5 Create a database in MS Access to store the patient information with the required fields Using access6. Design a form in MS Access to view, add, delete and modify the patient record in the database7. Generating report and printing the report from patient database8. Creating invoice table using – MS Access9. Drug information storage and retrieval using MS Access10. Creating and working with queries in MS Access11. Exporting Tables, Queries, Forms and Reports to web pages12. Exporting Tables, Queries, Forms and Reports to XML pages
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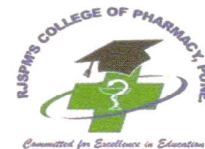
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11	S. Y. B. Pharm; 2019 Pattern	Pharmaceutical Organic Chemistry II	BP305P	<p>1. Experiments involving laboratory techniques Recrystallization</p> <ul style="list-style-type: none"> • Steam distillation • 1 Turn <p>2. Experiments involving Separation of Binary mixtures 2 Turns</p> <p>3. Determination of saponification value of oil samples (Any two) 1 Turn</p> <p>4. Synthesis of following compounds Benzanilide /phenyl benzoate /acetanilide from aniline/ phenol/ aniline</p> <ul style="list-style-type: none"> • by benzoylation/acylation reaction <p>2, 4, 6-Tribromoaniline/para-bromo acetanilide from aniline</p> <ul style="list-style-type: none"> • p-bromo Acetanilide by halogenation (Bromination) reaction. • 5-Nitrosalicylic /meta-dinitrobenzene from salicylic acid/ nitrobenzene • by nitration reaction Benzoic acid/ Salicylic acid from alkyl benzoate/ alkyl salicylate by • hydrolysis reaction. 1-Phenylazo-2-naphthol from aniline by diazotization and coupling • reactions/ pIodobenzoic acid from P-aminobenzoic acid by replacement reaction. Benzil from benzoin by oxidation reaction • Dibenzal acetone from benzaldehyde by Claisen-Schmidt reaction •
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12	S. Y. B. Pharm; 2019 Pattern	Physical Pharmaceutics I	BP306P	Determination the solubility of drug at room temperature 2. Determination of pKa value by Half Neutralization/ Henderson Hasselbalch equation. 3. Determination of Partition co-efficient of benzoic acid in benzene and water 4. Determination of Partition co-efficient of Iodine in CCl ₄ and water 5. Determination of % composition of NaCl in a solution using phenol-water system by CST method 6. Determination of surface tension of given liquids by drop count and drop weight method 7. Determination of HLB number of a surfactant by saponification method 8. Determination of Freundlich and Langmuir constants using activated char coal 9. Determination of critical micellar concentration of surfactants 10. Determination of stability constant and donor acceptor ratio of PABA-Caffeine complex by solubility method 11. Determination of stability constant and donor acceptor ratio of Cupric-Glycine complex by pH titration method. 12. Determination of Refractive index of given sample. 13. Determination of thermodynamic parameters using solubility studies.
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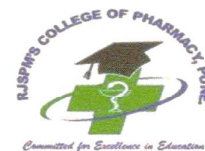
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13	S. Y. B. Pharm; 2019 Pattern	Pharmaceutical Microbiology	BP307P	<ol style="list-style-type: none"> 1. Introduction and study of different equipments and processing, e.g., B.O.D. incubator, laminar flow or aseptic hood, autoclave, hot air sterilizer, deep freezer, refrigerator, microscopes used in experimental microbiology. 2. Sterilization of glassware, preparation and sterilization of media. 3. Sub culturing of bacteria and fungus. Nutrient stabs and slants preparations. 4. Staining methods- Simple, Grams staining and acid fast staining (Demonstration with practical). 5. Isolation of pure culture of micro-organisms by multiple streak plate technique and other techniques. 6. Microbiological assay of antibiotics by cup plate method and other methods 7. Motility determination by Hanging drop method. 8. Sterility testing of pharmaceuticals (Any two samples). 9. Bacteriological analysis of water 10. Biochemical test of any one microorganism.
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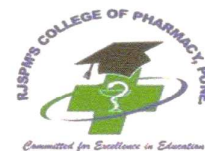


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14	S. Y. B. Pharm; 2019 Pattern	Pharmaceutical Engineering	BP 308P	<p>I. Determination of radiation constant of any one of – brass/ iron/unpainted and painted glass.</p> <p>II. Steam distillation- To calculate the efficiency of steam distillation.</p> <p>III. To determine the overall heat transfer coefficient by heat exchanger.</p> <p>IV. Construction of drying curves (for calcium carbonate and starch)</p> <p>V. Determination of moisture content and loss on drying.</p> <p>VI. Determination of humidity of air - i) From wet and dry bulb temperatures -use of Dew point method</p> <p>VII. Description of Construction, working and application of any two Pharmaceutical Machinery such as Rotary tablet Machine, capsule filling machine, tablet coating machine, autoclave, oven and dehumidifier.</p> <p>VIII. Size analysis by sieving -To evaluate size distribution of tablet granulations – Construction of various size frequency curves including arithmetic and logarithmic probability plots.</p> <p>IX. Size reduction: To verify the laws of size reduction using ball mill and determining Kicks, Rittinger's, Bond's coefficients, power requirement and critical speed of Ball Mill.</p> <p>X. Demonstration of any two equipments such as colloid mill, planetary mixer, fluidized bed dryer, Spray dryer Laminar Air Flow, Ball Mill and such other major equipments.</p> <p>XI. Factors affecting Rate of Filtration and Evaporation (Surface area, Concentration and Thickness/ viscosity).</p> <p>XII. To study the effect of time on the Rate of Crystallization.</p> <p>XIII. To calculate the uniformity Index for given sample by using Double Cone Blender</p>
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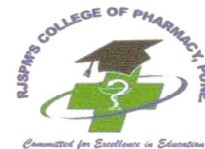




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15	S. Y. B. Pharm; 2019 Pattern	Medicinal Chemistry I – Practical	BP406P	<p>Synthesis of following medicinally important compounds / drug intermediates with Recrystallization of compound and monitoring reactions with TLC Preparation of drugs/ intermediates (any six)</p> <p>10 turns 1,3-pyrazole</p> <ul style="list-style-type: none"> • 1,3-oxazole • Benzimidazole • Benzotriazole • 2,3- diphenyl quinoxaline • Benzocaine • Phenytoin • Phenothiazine • Barbiturate <p>• Purification of above synthesized compounds by Column chromatography 01turn (any one)</p> <p>Determination of Partition coefficient and Ionization constants 04 turns (any two compounds).</p>
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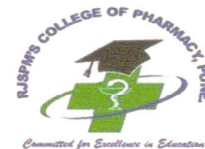
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16	S. Y. B. Pharm; 2019 Pattern	Physical Pharmaceutics II – Practical	BP407P	<ol style="list-style-type: none">1. Determination of particle size, particle size distribution using sieving method2. Determination of particle size, particle size distribution using Microscopic method3. Determination of bulk density, true density and porosity4. Determine the angle of repose and influence of lubricant on angle of repose5. Determination of viscosity of liquid using Ostwald's viscometer6. Determination sedimentation volume with effect of different suspending agent7. Determination sedimentation volume with effect of different concentration of single suspending agent8. Determination of viscosity of semisolid by using Brookfield viscometer9. Determination of reaction rate constant first order.10. Determination of reaction rate constant second order11. Accelerated stability studies12. Determination of Cloud point and Krafft point of given surfactant.13. Determination of effect of salts on stability of hydrophobic sols
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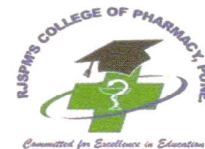
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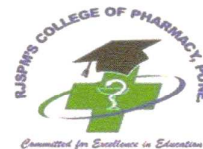
17	S. Y. B. Pharm; 2019 Pattern	Pharmacology I – Practical	BP408P	<ol style="list-style-type: none"> 1. Introduction to experimental pharmacology. 2. Commonly used instruments in experimental pharmacology. 3. Study of common laboratory animals and its possible use. 4. Maintenance of laboratory animals as per CPCSEA guidelines. 5. Common laboratory techniques. Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies. 6. Study of different routes of drugs administration in mice/rats. 7. Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice. 8. Effect of drugs on ciliary motility of frog oesophagus 9. Effect of drugs on rabbit eye. 10. Effects of skeletal muscle relaxants using rota-rod apparatus. 11. Effect of drugs on locomotor activity using actophotometer. 12. Anticonvulsant effect of drugs by MES and PTZ method. 13. Study of stereotype and anti-catatonic activity of drugs on rats/mice. 14. Study of anxiolytic activity of drugs using rats/mice. 15. Study of local anaesthetics by different methods <p>Note: All laboratory techniques and animal experiments are demonstrated by simulated experiments by softwares and videos</p>
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18	S. Y. B. Pharm; 2019 Pattern	Pharmacognosy and Phytochemistry I – Practical	BP409P	1. Analysis of crude drugs by chemical tests: (i) Tragacanth (ii) Acacia (iii) Agar (iv) Gelatin (v) starch (vi) Honey (vii) Castor oil 2. Determination of stomatal number and index 3. Determination of vein islet number, vein islet termination and palisade ratio. 4. Determination of size of starch grains, calcium oxalate crystals by eye piece micrometer 5. Determination of Fiber length and width 6. Determination of number of starch grains by Lycopodium spore method 7. Determination of Ash value 8. Determination of Extractive values of crude drugs 9. Determination of moisture content of crude drugs 10. Determination of swelling index and foaming index
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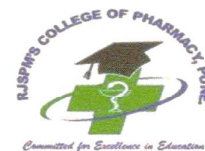
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19	T. Y. B. Pharm; 2019 Pattern	Industrial Pharmacy	BP506P	<ol style="list-style-type: none"> 1. Preformulation studies on paracetamol/asparin/or any other drug 2. Preparation and evaluation of Paracetamol tablets 3. Preparation and evaluation of Aspirin tablets 4. Coating of tablets- film coating of tables/granules 5. Preparation and evaluation of Tetracycline capsules 6. Preparation of Calcium Gluconate injection 7. Preparation of Ascorbic Acid injection 8. Qulaity control test of (as per IP) marketed tablets and capsules 9. Preparation of Eye drops/ and Eye ointments 10. Preparation of Creams (cold / vanishing cream) 11. Evaluation of Glass containers (as per IP)
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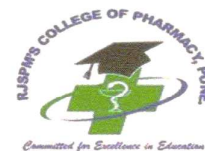
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20	T. Y. B. Pharm; 2019 Pattern	Pharmacology II – Practical	BP507P	<ol style="list-style-type: none">1. Introduction to in-vitro pharmacology and physiological salt solutions.2. Effect of drugs on isolated frog heart.3. Effect of drugs on blood pressure and heart rate of dog.4. Study of diuretic activity of drugs using rats/mice.5. DRC of acetylcholine using frog rectus abdominis muscle.6. Effect of physostigmine and atropine on DRC of acetylcholine using frog rectus abdominis muscle and rat ileum respectively.7. Bioassay of histamine using guinea pig ileum by matching method.8. Bioassay of oxytocin using rat uterine horn by interpolation method.9. Dose calculation in pharmacological experiments10. Bioassay of acetylcholine using rat ileum/colon by four point bioassay.11. Determination of PA2 value of prazosin using rat anococcygeus muscle (by Schilds plot method).12. Determination of PD2 value using guinea pig ileum.13. Effect of spasmogens and spasmolytics using rabbit jejunum.14. Anti-inflammatory activity of drugs using carrageenan induced paw-edema model.15. Analgesic activity using hotplate method16. Antiallergic activity by mast cell stabilization assay17. Clinical Case study Note: All laboratory techniques and animal experiments are demonstrated by simulated experiments by softwares and videos
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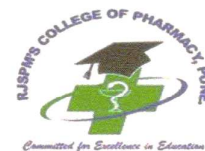
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**RAJMATA JIJAU SHIKSHAN PRASARAK MANDAL'S
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Affiliated to Savitribai Phule Pune University, Pune

DTE Code:- 6382 University Code:- CPHPO13150



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Dr. Kishor S. Jain
Principal

21	T. Y. B. Pharm; 2019 Pattern	Pharmacognosy and Phytochemistry II – Practical	BP508P	<ol style="list-style-type: none"> Morphology, histology and powder characteristics & extraction & detection of: Cinchona, Cinnamon, Senna, Clove, Ephedra, Fennel and Coriander Exercise involving isolation & detection of active principles <ol style="list-style-type: none"> Caffeine - from tea dust. Diosgenin from Dioscorea Atropine from Belladonna Sennosides from Senna Separation of sugars by Paper chromatography TLC of herbal extract Distillation of volatile oils and detection of phytoconstituents by TLC Analysis of crude drugs by chemical tests: <ol style="list-style-type: none"> Asafoetida Benzoin Colophony Aloes Myrrh
22	T. Y. B. Pharm; 2019 Pattern	Medicinal chemistry III – Practical	BP607P	<ol style="list-style-type: none"> Preparation of drugs and intermediates (Any six) 10 turns <ol style="list-style-type: none"> Sulphanilamide 7-Hydroxy, 4-methyl coumarin Chlorobutanol Triphenyl imidazole Tolbutamide Hexamine Paracetamol Methyl salicylate Caprolactum Preparation of medicinally important compounds or intermediates by Microwave synthesis (any two) 02 turns Drawing structures and reactions using Chem draw® 01 turn Determination of physicochemical properties such as logP, clogP, MR, Molecular weight 01 turn Hydrogen bond donors and acceptors for class of drugs using drug design software Drug likeliness screening (Lipinskies RO5)

राजमाता जिजाऊ शिक्षण प्रसारक मंडळाचे, कॉलेज ऑफ फार्मसी

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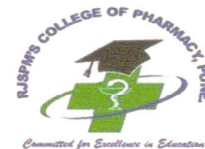
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23	T. Y. B. Pharm; 2019 Pattern	Pharmacology III – Practical	BP608P	<ol style="list-style-type: none"> 1. Study of anti-ulcer activity of a drug using pylorus ligand (SHAY) rat model and NSAIDS induced ulcer model. 2. Study of effect of drugs on gastrointestinal motility 3. Effect of agonist and antagonists on guinea pig ileum 4. Estimation of serum biochemical parameters by using semi-autoanalyser 5. Effect of saline purgative on frog intestine 6. Hypoglycemic effect of insulin in rabbit 7. Test for pyrogens (rabbit method) 8. Determination of acute oral toxicity (LD50) of a drug from a given data 9. Determination of acute skin irritation / corrosion of a test substance 10. Determination of acute eye irritation / corrosion of a test substance 11. Calculation of pharmacokinetic parameters from a given data 12. Biostatistics methods in experimental pharmacology(student's t test, ANOVA) 13. Biostatistics methods in experimental pharmacology (Chi square test, Wilcoxon Signed Rank test) 14. Bioassay of serotonin using rat fundus strip by three point bioassay. 15. Bioassay of acetylcholine using rat ileum/colon by four point bioassay. 16. Study of mydriatic and miotic effects on rabbit eye.
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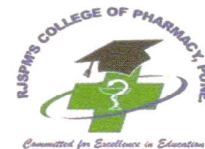
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24	T. Y. B. Pharm; 2019 Pattern	Herbal Drug Technology – Practical	BP609P	<ol style="list-style-type: none">1. To perform preliminary phytochemical screening of crude drugs.2. Determination of the alcohol content of Asava and Arista3. Evaluation of excipients of natural origin4. Incorporation of prepared and standardized extract in cosmetic formulations like creams, lotions and shampoos and their evaluation.5. Incorporation of prepared and standardized extract in formulations like syrups, mixtures and tablets and their evaluation as per Pharmacopoeial requirements6. Monograph analysis of herbal drugs from recent Pharmacopoeias7. Determination of Aldehyde content8. Determination of Phenol content9. Determination of total alkaloids
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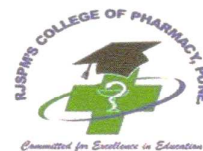
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24	Final Year B. Pharm; 2019 Pattern	Instrumental Methods of Analysis – Practical	BP705P	<ol style="list-style-type: none"> 1. Weights and measures and pharmacopoeia in analysis 2. Determination of absorption maxima and effect of solvent on absorption maxima of organic compounds 3. Assay of Drug product as per IP (Assay of Paracetamol tablet by UV Spectrophotometry) 4. Assay of Drug product by Calibration curve method 5. Assay of any drug/drug product by colorimetry. 6. Simultaneous estimation of multicomponent formulation by UV spectroscopy (SE/Q analysis) 7. Estimation of drug by fluorimetry 8. Study of quenching of fluorescence 9. Determination of sodium and potassium by flame photometry 10. Separation of amino acids by paper chromatography 11. Separation of sugars by thin layer chromatography 12. Separation of plant pigments by column chromatography 13. Demonstration of HPLC instrument 14. Demonstration of FTIR instrument 15. Interpretation of spectra of organic compounds by IR spectroscopy as per pharmacopoeia
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