



2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT- enabled tools including online resources for effective teaching and learning process

INDEX

Sr. No.	Content
<u>Experiential Learning Initiatives</u>	
1.	Industrial Projects completed by Students (Sample copy)
2.	Industrial Training completed by Students (Sample copy)
3.	Industrial Visits conducted for Students (Sample copy)
4.	Hospital Visits (Sample copy)
5.	Hands on Training for Students (Sample copy)
6.	Seminars, Conferences and Workshops attended by Students (Sample copy)
<u>Participative Learning Initiatives</u>	
1.	Guest Lectures conducted for Students (Sample copy)
2.	Career Guidance Activities for Students (Sample copy)
3.	Guest Lectures for Competitive Examination (Sample copy)
4.	Co-curricular Activities (National Pharmacy Week) (Sample copy)
5.	Medical Services Provided (National Service Scheme) (Sample copy)
<u>Problem Solving learning Initiatives</u>	
1.	Research Projects
	a. Research Project completed by UG Students (Sample copy)
	b. Research Project completed by PG Students (Sample copy)
2.	Hospital Related Projects (Sample copy)
3.	Case Studies (Sample copy)
4.	NPTEL Courses (Sample copy)
<u>Student Centric Learning- Additional Initiatives</u>	
1.	Self Learning Resources made available
2.	Pedagogical Methods Adopted



Experiential Learning Initiatives



Data of Industrial Projects Completed by Students



Data of Industrial Projects Completed by Students

(Last 5 years)

A.Y. 2022-23

Sr. No.	Name of Student	Collaborative activity	Collaborating Agency
1.	Shraddha Prakashrao Gaikwad	Design Synthesis of Novel Pyrrolopyrimidine Derived as Selective JAK INHIBITORS In Antineoplastic Activity.	CSIR-National Chemical Laboratory Pune.
2.	Virendrakumar Madhukar Kamble	Bile Acid Functionalized π -conjugated Derivatives: Synthesis & Biological evaluation.	CSIR-Indian Institute of Chemical Technology Hyderabad.
3.	Rutuja Udhav Gaikwad	Synthesis, purification, isolation and characterization of key impurities of Metoprolol.	Anasyn Lab. Pvt. Ltd. Tathawade, Pune.
4.	Pradnya sangram waghmare	Synthesis, purification, isolation and characterization of key impurities of Propranolol.	Anasyn Lab. Pvt. Ltd. Tathawade, Pune.
5.	Rashinkar Sneha Nandkumar	Synthesis, purification, isolation and characterization of some impurities of Bisoprolol	Anasyn Lab. Pvt. Ltd. Tathawade, Pune.

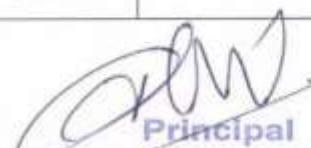
A.Y. 2021-22

Sr. No.	Name of Student	Collaborative activity	Collaborating Agency
1.	Akshay Hase	Formulation, development and in-vitro evaluation of anticancer film coated tablet 200 mg	Zenvision Pharma, Navi Mumbai
2.	Ketan Korde	Formulation, development and in-vitro evaluation of antineoplastic immediate release capsule	Zenvision Pharma, Navi Mumbai
3.	Shraddha Lakambare	Formulation development and evaluation of Empagliflozin film coated tablet using QbD approach	Callidus Research Laboratory Pvt. Ltd, Pune
4.	Netra Doiphode	Factorial Design Approach for Development and Evaluation of Prolonged Release Tablets of Centrally Acting Muscle Relaxant	Zuventus Pvt. Ltd., Pune

A.Y. 2020-21

Sr. No.	Name of Student	Collaborative activity	Collaborating Agency
1.	Pratik More	Application of RP-HPLC method in dissolution testing for simultaneous estimation of metformin and Vildagliptin in marketed dosage form	Sava Healthcare Limited




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2.	Harshal S Loharkar	Analytical Method Validation Of Stability Indicating HPLC Method For Related Substances of spironolactone	Callidus Research Lab, Pvt. Ltd.
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A.Y. 2018-19

Sr. No.	Name of Student	Collaborative activity	Collaborating Agency
1.	Mayuri Sawant	Development And Evaluation of An Aqueous Injectable Suspension of an Anti-inflammatory Glucocorticoid molecule	Cipla Mumbai/ F&D
2.	Sayali Shinde	Development And Evaluation of Multiple Unit System Tablet For BCS Class -I Drug	Emcure Pceuticals pune/ F&D
3.	Dhanasri Joshi	Formulation Development and Evaluation of Naproxen Sodium Controlled Release Tablet	Callidus/F&D
4.	Komal Gaikwad	Formulation And Evaluation Of Stiripentol Powder For Oral Suspension	Callidus/F&D
5.	Samiksha Tayade	Formulation And Evaluation of locosamide mouth Dissolving Tablet	Callidus/F&D
6.	Shivani Kalokhe	Quantification of methocarbamol and its impurities present in pharmaceutical dosage forms by stability – indicating HPLC method	Callidus/ Analytical
7.	Snehal kumbhar	Analytical method development and validation for stability indicating HPLC method for assay and preservative content of stiripentol in stiripentol oral suspension	Callidus/ Analytical
8.	Poonam Raskar	Novel stability indicating HPLC method for determination of related substance present in extrude base Posaconazole DR tablet	Callidus/ Analytical
9.	Sayali Damgude	Development and validation of RP-HPLC method for determination of scopletin and myricetin in bulk and dosage gorm	SAVA




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Sample for Industrial Project Completed by Students

सीएसआईआर - राष्ट्रीय रासायनिक प्रयोगशाला
CSIR-National Chemical Laboratory
पुणे / Pune - 411 008

सं. NCL/C&P/OCD-Trainee/2022

11-10-2022

कार्यालय ज्ञापन / OFFICE MEMORANDUM

विषय: सीएसआईआर-एनसीएल में Project Trainee के रूप में कार्य करने की अनुमति।

सक्षम प्राधिकाारी, सीएसआईआर-एनसीएल में Modern College of Pharmacy (SP, Pune University) के छात्र Ms. Shradha Gaikwad, M. Pharm को Dr. Muthukrishnan, Sr.Pr. Scientist के मार्गदर्शन में छह माह की अवधि के लिए 01-08-2022 से 31-01-2023 तक Organic Chemistry Division में Project Trainee के रूप में परियोजना कार्य करने हेतु मंजूरी प्रदान की है।


(सत्य प्रकाश पंकज)
अनुभाग अधिकारी

प्रति,
Ms. Shradha Gaikwad
OCD Division

इनमें अनुरोध है कि वे संस्थान/संगठन द्वारा जारी पहचान पत्र और एक हालिया रंगीन फोटोग्राफ की प्रति प्रस्तुत करें।

प्रतिलिपि :

1. प्रमुख, Organic Chemistry Division
2. परियोजना प्रमुख, Dr. Muthukrishnan, Sr.Pr. Scientist, OCD Division
3. सुरक्षा विभाग



Summary of Industrial Training completed by Students



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Summary of Industrial Training completed by Students (Last 5 years)

Sr. No.	Academic Year	Number of Students	Major Industries Associated
1	2021-22	56	<ul style="list-style-type: none"> ❖ Cipla Ltd ❖ Sun Pharmaceuticals ❖ Haffkine Bio-Pharmaceutical ❖ Lupin Ltd ❖ Nulife Pharmaceutical Ltd ❖ Flamingo Pharmaceutical Ltd ❖ Emcure Pharmaceuticals ❖ Gennova Biopharmaceuticals ❖ Sydler Remedies ❖ Callidus Research Laboratories ❖ Glaxosmithkline Pharmaceuticals Limited
2	2020-21	64	
3	2019-20	61	
4	2018-19	64	




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Sample for Industrial Training completed

A PROJECT REPORT
ON
"ONE MONTH INPLANT TRAINING" WITH
WOCKHARDTPHARMACEUTICALS
WALUNJ, AURANGABAD
SUBMITTED TO
SAVITRIBAI PHULE PUNE UNIVERSITY
SUBMITTED BY
Ms. Anuja Avinash Mohite
(B. Pharm.)
(2021-2022)

P.E.S. MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE 411044





Industrial Visits conducted for Students



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Data of Industrial Visits Conducted for Students
 (Last 5 years)

A.Y. 2022-2023

Sr. No.	Name of Industry	Date of Visit
1	Bio Radius Therapeutic Research Pvt. Ltd Phase I, Hinjawadi, Pune, Maharashtra	06/12/2022
2	Chakan Life Sciences Pvt. Ltd., Pirangut, MIDC, Maharashtra	28/06/2022
3	Hafkine, Bio-Pharmaceutical Corporation Ltd, Pimpri, Pune	11/04/2023
4	ICAR National Research Centre for Grapes, Manjari, Hadapsar, Pune	06/10/2022
5	MAGS-IARTC, Research and Training Pvt., Ltd. MIDC Bhosari, Pune, Maharashtra.	11/11/2022
6	Passiflora Laboratories Pvt. Ltd. Pune, MIDC, Maharashtra	28/06/2022
7	Sainath Hospital, Moshi, Pune	30/08/2022

A. Y. 2021-2022

Sr. No.	Name of Industry	Date of Visit
1	Anchrom Enterprises(I) Pvt.Ltd., Mumbai	14/ 07/2021
2	Callidus Research Labs Nighoje, Maharashtra, Pune	09/09/2021
3	Vishwa Connectome Pvt Ltd, Hadapsar, Pune.	05/10/2021
4	Omni Protect Drugs Pvt Ltd, Bhosari, Pune.	10/05/2022- 11/05/2022
5	Anasyn Lab Private Ltd. Tathawade, Pune	14/05/2022
6	Crystal Biological Solution, Hadapsar, Pune	21/05/2022

A.Y. 2020-2021

No industry visits were arranged due to pandemic Covid-19 situation

A. Y. 2019-2020

Sr. No.	Name of Industry	Date of Visit
1	Nulife Pharmaceuticals Pvt. Ltd, Bhosari, Pune	20/01/2020
2	Sava HealthCare Ltd Chinchwad, Pune	07/02/2020
3	Callidus Research Labs Nighoje, Maharashtra, Pune	29/02/2020

A.Y. 2018-2019

Sr. No.	Name of Industry	Date of Visit
1	Nulife Pharmaceuticals Pvt Ltd	21/02/2019
2	ACG Pharma Technologies Shirwal, Dist. Satara	12/02/2019
3	Callidus Research Labs Nighoje, Pune, Maharashtra	02/ 03/2019




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Sample for Industrial Visits conducted for Students

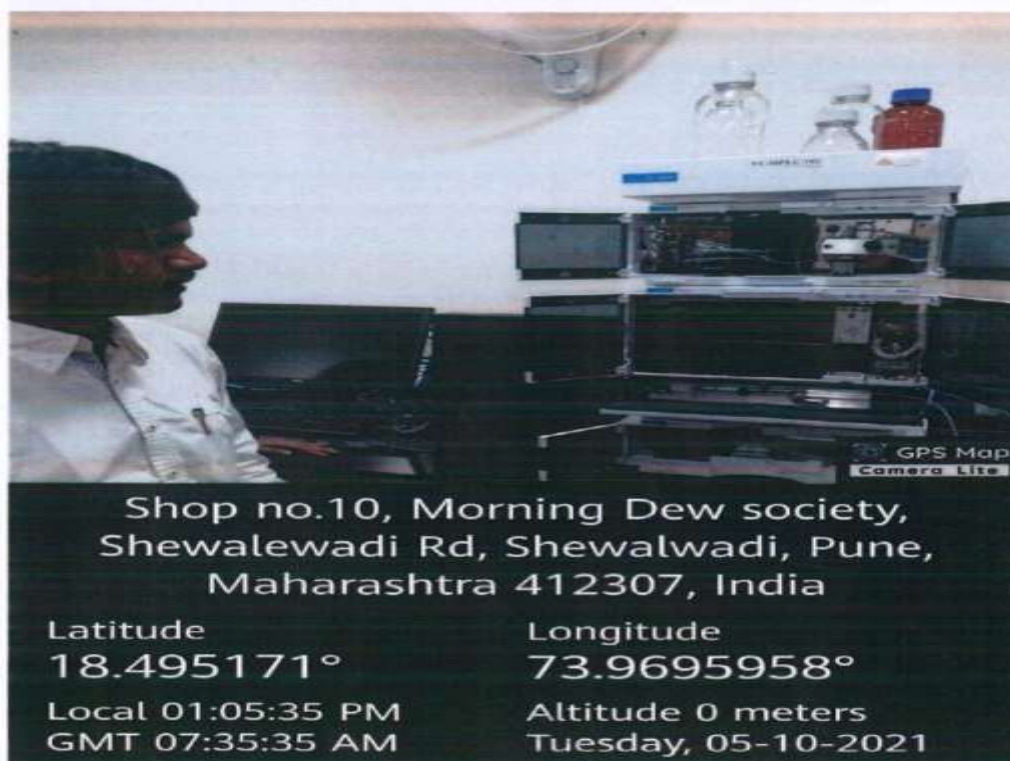
P.E.Society's
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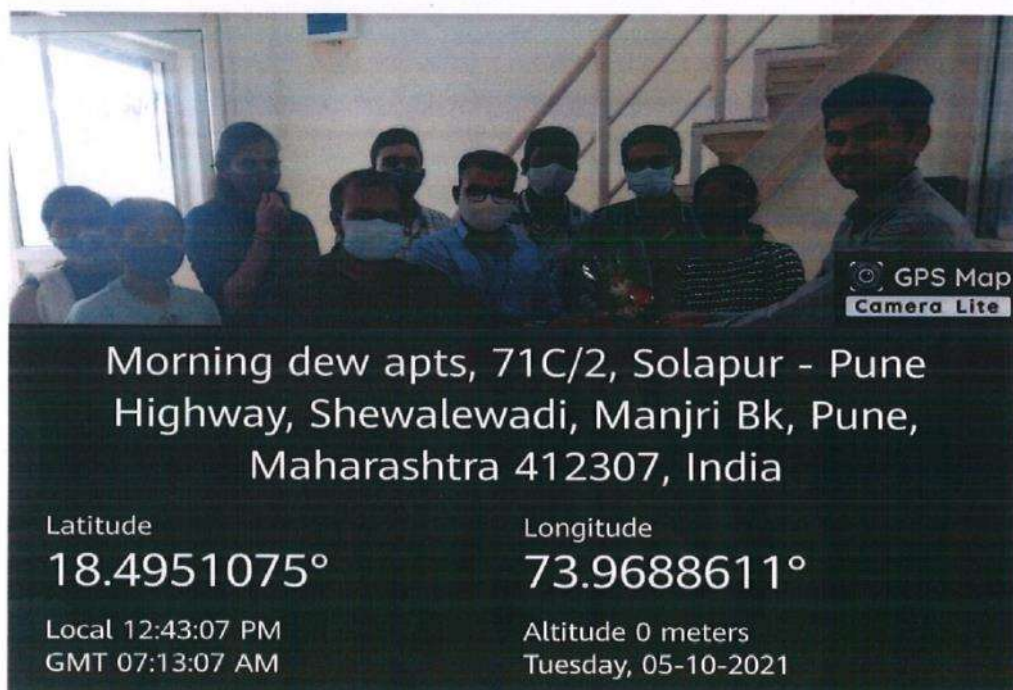
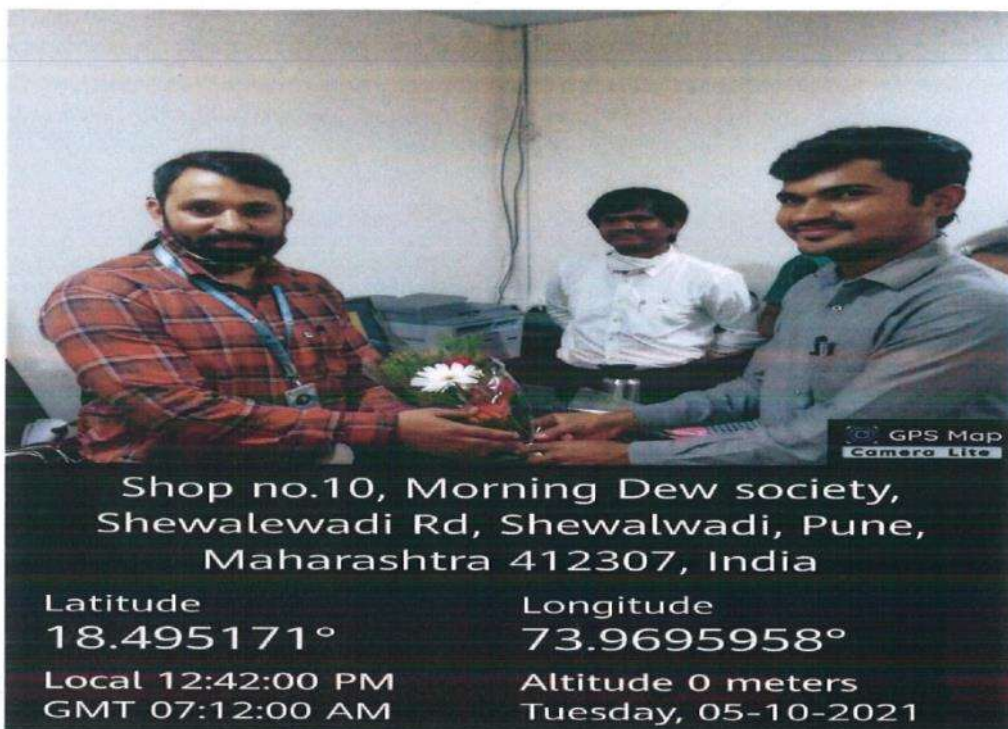
REPORT OF INDUSTRY VISIT 2021-22

1.	Name of activity:	Industry visit for B. Pharm/ M Pharm/ Pharm D students
2.	Name of Industry	Vishwa Connectome Pvt Ltd, Hadapsar, Pune
3.	Date of activity	05/10/2021
4.	Total no students participate	15
5.	Occasion of activity	Industry Academic Interaction
6.	Place of visit	QAQC dept
7.	Objectives of activity	<ol style="list-style-type: none">1. To get pharmacy knowledge, planning abilities, problem analysis, modern tool usage, professional identity, pharmaceutical ethics, communication, environment and sustainability, life-long learning.2. To know working procedure of manufacturing unit and QAQC dept of Pharmaceutical industry3. To get importance of accuracy in practical's experiments4. How to operate equipments in pharma industry.
8.	Training given by	Dr. Virendra
9.	Name of faculty with students	Prof Somdatta Chaudhari Prof Shital Patil
10.	Activity co-coordinator	:Dr. Vitthal V Chopade


Dr. V V Chopade
Industry Visit Incharge









Data of Hospital Visits Conducted



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Data of Hospital Visits Conducted (Last 5 years)

Academic Year	Class	Number of Hospital Visits Completed
2022-23	Fifth Year Pharm D	171
	Fourth Year Pharm D	33
	Third Year Pharm D	35
	Second Year Pharm D	27
2021-22	Fourth Year Pharm D	12
	Third Year Pharm D	11
	Second Year Pharm D	11
2020-21	Third Year Pharm D	No Visits Due to Covid
	Second Year Pharm D	No Visits Due to Covid
2019-20	Second Year Pharm D	11




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Sample for Hospital Visits Conducted

No.	NAME	DAILY ATTENDANCE FOR														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
401	Agaewal Nitesh Radhesham	TIME IN	3:00	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
		TIME OUT	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
402	AKhade shreuti Chandokant	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
		TIME OUT	5:10	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
403	Awad Apaena manojkumar	TIME IN	3:00 PM	3:00 PM	3:00 PM	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
		TIME OUT	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
404	Balure Sukshmatq Digambar	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
		TIME OUT	5:10	5:10	5:10	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
405	Chavan vaishnavi vijnath	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
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		TIME OUT	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
406	Deshmukh vaishnavi Ganeshrao	TIME IN	3:00	3:00	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
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		TIME OUT	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
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407	Hagawane Divya Bandu	TIME IN	3:00 PM	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
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408	Kendee Shweta Ramkishan	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
		TIME OUT	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03	5:03
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
409	Khaire Abhishek	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)
		TIME OUT	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00
		SIGN	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)	(Signature)

[illegible]



Criteria 2: Teaching- Learning and Evaluation



No.	NAME	DAILY ATTENDANCE FOR														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
419	Patil vedant prakash	TIME IN 3:00	2:30	3:00	2:30	2:30	-	2:30	2:30	2:30	2:30	2:30	2:30	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-
		TIME OUT	5:15	5:15	4:45	5:15	-	5:15	5:15	5:15	5:15	5:15	5:15	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	-	Ab	Ab	Ab	Ab	Ab	Ab	-	-	-
420	Rangubhe Rachita Sanjeev	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-
		TIME OUT	5:15	5:00	4:45	5:15	5:15	5:15	5:15	5:15	5:15	5:15	5:15	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-	-
421	Savane Sumedha Anil	TIME IN	3:00	3:00	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-
		TIME OUT	5:15	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-	-
422	Shewale Shubham vitthal	TIME IN	3:00	-	2:30	2:30	2:30	2:30	2:30	2:30	2:30	-	-	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
		TIME OUT	5:15	-	4:30	5:00	5:00	5:15	5:15	5:15	5:15	-	-	-	-	-
		SIGN.	Ab	-	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-	-	-	-
423	Shinde Avinash Santosh	TIME IN	3:00	2:30	2:30	2:30	-	-	-	-	2:30	2:30	2:30	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
		TIME OUT	5:15	5:00	4:30	5:00	-	-	-	-	5:00	5:00	5:00	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	-	-	-	-	Ab	Ab	Ab	-	-	-
424	Talegaonkar Sanket Prashant	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
		TIME OUT	5:15	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-	-
425	Udawat Sumeet Baburao	TIME IN	3:00	2:30	2:30	2:30	2:30	-	2:30	-	-	-	-	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
		TIME OUT	5:15	5:00	5:00	5:00	5:00	-	5:00	-	-	-	-	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	-	Ab	-	-	-	-	-	-	-
426	Yadav Saloni Anirudha	TIME IN	3:00	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
		TIME OUT	5:05	5:00	4:30	5:15	5:00	5:00	5:00	5:00	5:00	5:00	5:00	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	-	-	-
427	Yelamkar Pranav Shivkumar	TIME IN	3:00	2:30	2:30	2:30	2:30	-	2:30	-	-	-	-	-	-	-
		SIGN.	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab	Ab
		TIME OUT	5:15	5:00	5:00	5:15	5:15	-	5:15	-	-	-	-	-	-	-



Criteria 2: Teaching- Learning and Evaluation



No.	NAME	DAILY ATTENDANCE FOR														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
428	Yenpure Jagruti Umesh	TIME IN 8:00	2:30	2:50	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:10	5:00	5:00	5:10	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00		
		SIGN.														
429	Ghotule swapnil prabhakare	TIME IN 8:10	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30			
		SIGN.														
		TIME OUT 5:25	5:15	4:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30		
		SIGN.														
430	Jadhav Harshal Nandu	TIME IN 8:05	8:05	2:30	2:30	2:30	-	-	2:30	2:30	2:30	2:30	2:30			
		SIGN.														
		TIME OUT 5:25	5:15	5:15	5:30	5:00	-	-	5:00	5:00	5:00	5:00	5:00	5:00		
		SIGN.														
431	Kumbhare Satyan Rajendra	TIME IN 8:00	2:15	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:25	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00		
		SIGN.														
432	Nachane Shreedha Jayant	TIME IN 8:10	2:30	2:15	2:30	-	8:10	2:30	4:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:25	5:13	5:00	5:00	-	5:25	5:25	5:25	5:25	5:25	5:25	5:25	5:25		
		SIGN.														
433	Bhoite Pratishtha Sudesh	TIME IN 8:10	2:30	2:30	2:30	2:30	-	2:30	2:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:10	5:00	5:00	5:30	5:30	-	5:00	5:00	5:00	5:00	5:00	5:00	5:00		
		SIGN.														
434	Radhanpura Muskan Riyaz	TIME IN 8:10	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:05	5:00	4:40	6:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00		
		SIGN.														
435	Thokal Sujata Hanumanth	TIME IN 8:10	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:10	5:00	5:00	5:00	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30	5:30		
		SIGN.														
436	Vaze Ashwin Anil	TIME IN 8:10	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30	2:30		
		SIGN.														
		TIME OUT 5:10	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00	5:00		
		SIGN.														



Data of Hands on Training for Students



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Data of Hands on Training for Students

Sr. No.	Name of the Instrument	Name of Faculty
1	Texture analyzer	Dr. U. C. Galgatte
2	R & D Coater	Dr. U. C. Galgatte
3	Hot Melt Extrusion	Dr. U. C. Galgatte
4	Horiba Particle size analyzer and zeta sizer	Dr. Ujwala Desai
5	Auto analyzer	Dr. Sonali Nipte
6	Spray Dryer	Ms. A. R. Bhure
7	UV-Visible Spectrophotometer	Ms. V. S. Bawadekar
8	IR Spectrophotometer	Dr A. R. Balap
9	HPTLC	Ms. Nikita Kale
10	HPLC	Dr. M. T. Harde
11	Rotary Evaporator	Mrs. Sheetal Chaudhari
12	Parallel Synthesizer	Mrs. Rupali Jinturkar
13	Brookfield Viscometer	Mr. S. V. Mane
14	Cooling centrifuge	Mr. Prashant Pawar
15	Neuropharmacology Lab Equipments	Ms. Swateja Bhosle
16	Tablet Punching Machine	Mr. D. L. Visokar
17	Fluorescence microscope	Dr. N. M. Gaikwad




Dr. N. M. Gaikwad
E. S. Modern College of Pharmacy
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Pune - 411 044.



Sample for Hands on Training

P. E. Society's
Modern College of Pharmacy Nigdi-44
Certificate course on "Hands on Training of Sophisticated Instrument"

REPORT OF TRAINING

1. Name of activity:		Certificate course on "Hands on Training of Sophisticated Instrument"
2.	Topic of training	Hands on Training of Horiba Particle size analyzer and zeta sizer.
3.	Date of activity	13/02/2023
4.	Total no Students participated	62
5.	Place of training	Instrumental Lab, 3 rd floor, MCOP, Nigdi, Pune.
6.	Scope & Objectives of training	<ul style="list-style-type: none">• To understand the theory and operation of light scattering particle sizers.• To get hands-on experience using state of the art instrumentation.• To understand the significance of particle size and zeta potential in Novel Drug Delivery System.
7.	Outcome of training	<ul style="list-style-type: none">• Measuring particle size distributions using Horiba Particle size analyzer instruments.• Data analysis and interpretation of results.• Operation and usage of SZ 100 Horiba software for result interpretation
8.	Training given by	Dr. U. S. Desai
9.	Activity co-coordinator	Dr. Vithal V Chopade / Dr A S Tapkir

Name & sign of Trainers
Dr Ujwala Desai





Photo's of Activity



Desai

Name & sign of Trainers
Dr Ujwala Desai





Data of Seminars/Conferences/ Workshops Attended by Students



Data of Seminars/Conferences/ Workshops Attended by Students

(Last 5 years)

A. Y. 2022-2023

Sr. No.	Name of Student	Name of Event	Name of Organization	Date
1.	Pratiksha Hajare, Abhijit Deshmukh, Khelbade, Pradnya, Vinod Gaikwad, Ganesh Pore, Nikita Pawar, Pranali Bhandare, Gayatri Gadekar, Dhanashri Katkar, Kajal Pawade, Surabhi Shinde, Prajakta Jambe, Akanksha Amritkar	International Conference on "Drug Discovery"	BITS-Pilani KK Birla, Goa Campus.	10/11/2022-11/11/2022
2.	Prajakta Tambe	Two Days International Conference on Recent Innovations: A Holistic and Integrated Approach to Pharmaceutical Science	Gokhale Education Society's, Gosavi College of Pharmaceutical Education and Research, Nashik	23/09/2022-24/09/2022
3	Mohsin Mansoori, Pratiksha Hajare, Abhijit Deshmukh, Khelbade Pradnya, Vinod Gaikwad, Ganesh Pore, Nikita Pawar, Pranali Bhandare, Gayatri Gadekar, Dhanashri Katkar, Kajal Pawade, Surabhi Shinde, Akanksha Amritkar	Second International Virtual Conference on "Current Scenarios in Chemical Sciences (CSCS-2022)"	School of Chemical Sciences, Moolji Jaitha College, Jalgoan (MS), India	16/09/2022 17/09/2022
4.	Namrata Shinde Narsingrao	"Indian Pharmaceutical Congress" Nagpur	Department of P'cal Sciences Rashtrasant Tukdoji Maharaj Nagpur University- Nagpur	09/02/2023
5.	Jadhav Sidheshwar Lobhaji	SNJB's "PHARMACON"	Shriman Sureshdada Jain College Of Pharmacy Neminagar Chandwad Nashik	02/12/2022
6.	Pradnya Waghmare, Rutuja Gaikwad, Geeta Anawade, Rashikar Sneha, Dnyaneshwari Chopade, Radhika Vyavhare,	International Conference on "Drug Discovery"	BITS-Pilani KK Birla Goa Campus.	10/11/2022-11/11/2022



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	Shraddha Gaikwad, Shirsath Sanket, Asavari Shinde, Namrata Shinde, Akshata Birajdar			
7.	Magar Vaishnavi, Vyavahare Radhika, Shinde Namrata, Shinde Asavari, Suryawanshi Mayuri, Waghmare Pradnya, Gaikwad Rutuja, Kamble Virendrakumar	Impact lecture series 2022 {MOEs} {MIC} AICTE {IIC}	AISSMS College of Pharmacy-Pune	08/07/2022
8.	Magar Vaishnavi, Shinde Asavari	International Virtual Conference on "Current Scenario in Chemical Sciences"	Moolji Jaitha College, Jalgaon	16/02/2022-17/02/2022
9.	Magar Vaishnavi, Shinde Asavari, Waghmare Pradnya, Gaikwad Rutuja	Quiz Competition on "Innovation and Entrepreneurship"	Y.B.Chavan college of Pharmacy, Aurangabad	12/08/2022
10.	Rushikesh Khorde,	International on "Webinar Emergence of Nutraceuticals as Pharmaceutical: Challenges and Promises"	Vishnu Institute of Pharmaceutical Education and Research, Telangana	17/3/2023
11.	Yashoda Tidake,	International Conference "Recent Innovations: A holistic and integrated approach to Pharmaceutical science"	G E S's Sir Dr. M.S. Gosavi College of Pharmaceutical Education and Research, Nashik	23/09/2022 - 24/09/2022
12.	Yashoda Tidake, Darshana Wani Gaurav Mahajan, Aishwarya Mahangade, Priyanka Pote	Pharmanecia 3.E International eTech Fest (NPW)	Dr D Y PIPSR, Pune	25/09/2022 -30/09/2022
13.	Yashoda Tidake, Shefali Wankhade,	National seminar on "Explore and identify avenues of interaction with industry" (Online)	Vijaya College of Pharmacy, Telangana	10/10/2022
14.	Darshana Wani,	National seminar on "Good clinical practice workshop for ethics committee members"	Indian Society for Clinical Research	16/07/22
15.	Yogish Garhwani,	International seminar on "START HERB: Journey from Innovation to Entrepreneurship in Herbals"	D.Y. Patil Deemed to be University, School of Pharmacy, Navi Mumbai & APR	14/10/2022-15/10/2022



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16.	Yogish Garhwani	International "Preparation & Evaluation of Antidandruff Hair Oil using Various Herbs"	Bulletin of Environment, Pharmacology & Life Sciences	27/10/2022
17.	Yogish Garhwani	AAVISHKAR-2022 Zonal Level Research Project Competition	SPPU, Pune	08/12/2022
18.	Yogish Garhwani, Gaurav Mahajan, Tushar Phalke	72nd IPC on Access to Quality & Affordable Medical Products	Indian Pharmaceutical Congress Association	20/01/2023 -22/01/2023
19.	Yogish Garhwani, Amrut Godbharle	International conference on 'Emerging Trends in Pharmaceutical-Care in Digital Era'	Operant Pharmacy Federation, Pune	27/02/2023
20.	Akshata Birajdar, Amrut Godbharle, Mayuri Borbane	International conference on Drug Discovery	BITS-Pilani, Goa	10/11/2022- 11/11/2022

A. Y. 2021-2022

Sr. No.	Name of Student	Name of Event	Name of Organization	Date
1.	Pooja Ingole Ashwini Kotkar	National Workshop on "Pharmacovigilance"	Dr. D Y Patil Institute of Pharmaceutical Sciences and Research, Pimpri -Online	17/09/2021- 23/09/2021
2.	Pooja Ingole, Ashwini Kotkar, Snehal Kotwal, RituMahale, Ashwini Navale	Prof. Ambikanandan Mishra Memorial International E-conference on "Recent advances and trends in novel drug delivery system"	AISSMS College of Pharmacy, Pune	24/09/2021- 25/09/2021
3.	Pooja Ingole, Ashwini Kotkar, Snehal Kotwal, RituMahale, Ashwini Navale	One Day National Webinar organized by Gokhale Education Society's	GE S's Dr.M.D. Gosavi college of Pharmaceutical and Research, Nashik	8/10/2021
4.	Pooja Ingole, Ashwini Kotkar, Omkar Kalsait	A webinar on "Clinical Trials Data Analytics"	Online mode- conducted by KITEL- AI Technologies Pvt. Ltd. Pune	27/11/2021
5.	RituMahale	"SNJB's Pharmacon-2021 Research, Innovations And Technologies: Challenges	Online- ShrimanSureshdada Jain College Of	3/12/202- 6/12/2021



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		and Opportunities in P'cal Sciences"	Pharmacy NeminagarChandwad Nashik	
6.	Pooja Ingole	Joint Webinar on "Importance of Intellectual Property Rights"	Poona College of Pharmacy Pune- Online mode	09/12/2021
7.	Omkar Kalsait, Ashwini Navale	First International "Webinar Series on Artificial Intelligence in Drug Discovery"	Shree Vile Parle Kelvani Mandal's Institute of Pharmacy, Dhule – Online Mode	16/02/2022-18/02/2022
8.	DhanashriKatkar,AkankshaAmritkar, PranaliBhandare, Abhijit Deshmukh, Gayatri Gadekar, KhelbadePradnya, Vinod Gaikwad,Kajal Pawade, Nikita Pawar,Ganesh Pore, Surabhi Shinde	One Day National Conference on "Future of Pharmaceutical Industry"	Swami Sevabhavi Sanstha's Lotus Buisness School, Pune	28/05/2022
9.	Magar Vaishnavi, Vyavahare Radhika, Shinde Namrata,SuryawanshiMayuri, Waghmare, Pradnya, Rashinkar Sneha, Gaikwad Rutuja, Gaikwad Shraddha, KambleVirendrakumar, Chopade Dnyaneshwari	One Day National Conference on "Future of Pharmaceutical Industry"	Swami Sevabhavi Sanstha's Lotus Buisness School, Punawale, Pune	28/05/2022
10.	Magar Vaishnavi, Vyavahare Radhika, Shinde Namrata,Suryawanshi Mayuri, Gawande Sahil, Waghmare Pradnya, Rashinkar Sneha, Gaikwad Rutuja, Gaikwad Shraddha, KambleVirendrakumar, Chopade Dnyaneshwari	National workshop on "Computer Aided Drug Design"	D. S. T. S. Mandal's College of Pharmacy, Solapur	21/01/2022-22/01/2022
11.	Shinde Namrata Narsingrao Magar Vaishnavi Sanjay, Vyavahare Radhika, Suryawanshi Mayuri, Gawande Sahil , Waghmare Pradnya, Gaikwad Rutuja, Gaikwad Shraddha,Kamble Virendra	International Conference on "Advances In Pharmaceutical Medicinal Chemistry 2022"	D Y Patil Deemed to be University School of Pharmacy Sector-7, Nerul (E), Navi Mumbai 400706	21/04/2022 22/04/2022




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12.	Gaikwad Shraddha	"National Intellectual Property Mission"	Intellectual property of India	01/02/2022
13.	Gaikwad Shraddha	National Level "Nano Formulation Based on Drug Delivery Systems"	Datta Meghe College of Pharmacy, Wardha	29/02/2022
14.	Chopade Dnyaneshwari	International Workshop on "Intellectual Property Rights(IPR):Career In IP"	Sheth Govind Raghunath Sable College of Pharmacy, Saswad.	10/06/2022
15.	Chopade Dnyaneshwari	International e-onference on "Covid-19 Era- Need and hallenges in Healthcare and Pharma Sector"	Dayanand College of Pharmacy BarshiRoad,Latur	11/06/2021-12/06/2021
16.	Sanket Bhadange, Dhone Yogita, Bansude Tejmal, Gujar Anuja, Akshay Giri, Mayuresh Jadhav, Shruti Kolsure, Alka Bhure	International webinar on "3-D Printing in Pharmaceutical and Medical Applications"	Sanjivani College of Pharmaceutical Education & Research, Kopargaon.	7/02/2022-8/02/2022
17.	Sanket Bhadange, Dhone Yogita, Bansude Tejmal, Gujar Anuja, Akshay Giri, Mayuresh Jadhav	Nano Formulation based Drug Delivery System.	Datta Meghe College of Pharmacy, Wardha	29/01/2022
18.	Dhone Yogita Shivaji, Mayuri Borbane, Tushar Phalke	National webinar on "Pharmaceutical Quality Assurance."	AISSMS college of pharmacy Pune	25/02/2022
19.	Bansude Tejmal Vijay	7th series National Webinar on "Understanding Brain An Exciting Journey"	SGMSPM's Sharadchandra Pawar College of Pharmacy	13/07/2021
20.	Bansude Tejmal Vijay	10th series National Webinar on "Neutraceutical: Emerging Trends"	SGMSPM's Sharadchandra Pawar College of Pharmacy	17/07/2021
21.	Bansude Tejmal Vijay, Gujar Anuja,	International webinar PRIP INNOVATE 4: "Novel Sterically Stabilized Disulphide Linkers for Gene Therapy & Peptide Drug discovery	Pulla Reddy Institute of Pharmacy with IPA, Dommadugu, Hyderabad	28/01/2022
22.	Korde Ketan,	National Webinar on IQ-OQ-PQ of HPTLC	Anchrom Enterprises (I) & IQAC of AISSMS COP, Pune	09/07/2021




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23.	Korde Ketan	1st International Webinar Series on Artificial Intelligence in Drug Discovery	SVPKM's Institute of Pharmacy, Dhule	16/02/2022-18/02/2022
24.	Mayuri Borbane, Rushikesh Khorde, Yashoda Tidake, Yogish Garhwani, Tushar Phalke, Shefali Wankhade	State level Conference on "Research Methodology"	Shankarrao Ursal College of Pharmaceutical sciences and research centre, Pune	11/5/2022
25.	Mayuri Borbane, Rushikesh Khorde, Yashoda Tidake, Yogish Garhwani, Tushar Phalke, Shefali Wankhade	State level Conference on "Intellectual property Rights"	Shankarrao Ursal College of Pharmaceutical sciences and research centre, Pune	11/5/2022
26.	Yashshri Holambe,	Webinar on "Cell Line Studies: A Powerful Research Tool"	Bharati Vidyapeeths College of Pharmacy, C. B. D. Belaur	17/07/2021
27.	Tushar Phalke, Yashoda Tidake, Darshana Wani, Shefali Wankhade, Amrut Godbharle, Akshata Birajdar, Priyanka Pote	A National Conference on "Future of Pharmaceutical Industry"	Lotus Bussiness School, Pune	28/5/2022

A. Y. 2020-2021

Sr. No.	Name of Student	Name of Event	Name of Organization	Date
1.	Prachi Gholve, Rajanigandha Jori, Nilesh Choudhary, Aishwarya Mandhare, Priyanka Karad	One Day Free Training Session on "HPTLC" by Anchrom Enterprises Pvt.Ltd.Mumbai	PES's Modern College of Pharmacy Nigdi, Pune	08/06/2021
2.	Nilesh Chaudhary	SRTMU Sponsored Two Days International E-Conference on "Covid-19 era-Need & challenges in Healthcare & Pharma sector"	DES's Dayanand College of Pharmacy, Latur (Online)	11/06/2021-12/06/2021
3.	Aishwarya Mandhare, Rajanigandha Jori	ICSSR Sponsored one day International level Webinar on "Tobacco & Tuberculosis"	ADT,s SPIPSR Shardanagar, Baramati	28/03/2021
4.	Netal Rahul Bhansali, Bhabad Deepak, Raksha Rao, Shubham Mali	NPW Role of Healthcare Professional In Adverse Drug	Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research, Pimpri, Pune	17/09/2021-23/09/2021
5.	Sanket Bhatshankar, Yedake Ujwala, Shubham Mali	"Catch The Rain"	PES's MCOP, Nigdi, Pune	24/08/2021
6.	Netal Bhansali, Raksha Rao	"Water QDA Mass Detector with camang HPTLC-MS"	PES's Modern College of Pharmacy Nigdi, Pune	06/06/2021



[Signature]
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7.	Sanket Bandu Bhatshankar YedakeUjwala Bhaskar	"Stereotaxic Neurosurgery: Exploration of the Brain"	Sharadchandra Pawar College Of Pharmacy, Otur	06/06/2021
8.	Bhabad Deepak Ramnath	"Emerging Trends in Pharmaceutical Research"	Dr. D. Y. Patil Institute of Pharmaceutical Sciences and Research	20/02/2021- 15/05/2021
9.	Rahul Dighe, Surbhi Gupta	Biologics: The Future of Therapeutics & Healthcare Management	SCES's Indira College of Pharmacy, Pune	06/06/2020- 09/06/2020
10.	Shraddha Mali	Technology Transfer in Pharmaceuticals	Pharmatutor	17/04/2021
11.	Surbhi Gupta	Response Surface Methodology Software- Minitab	Shri Gajanan Maharaj Prasarak Mandals Sharadchandra Pawar College of Pharmacy	03/06/2020
12.	Surbhi Gupta	Sublingual's- Highly efficacious dosage form for delivering Metabolizable Drugs, Peptides and Vaccines	International Pharmaceutical Excipients Council of India	04/09/2020
13.	Bansude Tejmal Vijay	"Virtual Pharmacology Experimentation"	Shree Swaminarayan Sanskar Pharmacy College	17/07/2020
14.	Shraddha Mali, Gujar Anuja	Tobacco and Tuberculosis	ADT Sharda Bai Pawar Institute of Pharmaceutical Sciences, Baramati	27/03/2021
15.	Shubham Choudante	"Covid-19: Challenges and Opportunities in Pharmaceutical Research	Nirma University Gujrat	18/03/2021- 20/03/2021
16.	Darshana Wani	Bridge course in pharmacovigilance	Opex Pvt Ltd	26/04/2021- 30/04/2021

A. Y. 2019-2020

Sr. No.	Name of Student	Name of Event	Name of Organization	Date
1.	Aishwarya Mandhare, Nilesh Chaudhary, Shweta Ghodke	SPPU Sponsored two days state level workshop on "Clinical Research: Ethical and regulatory requirement, an Indian & Global scenario"	Dr. D.Y.Patil Institute of Pharmaceutical science & Research, Pimpri, Pune	10/01/2020- 11/01/2020
2.	Prachi Gholve, Priyanka Karad	8 th International Congress of the Society for Ethnopharmacology - India (SFEC2021)	Poona college of Pharmacy, Pune	10/01/2020- 11/01/2020



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3.	Prachi Gholve, Rajanigandha Jori, Shweta Ghodke	SPPU Sponsored two days state level workshop on "Current Trends & Regulatory requirements for Herbal Products"	PES's Modern College of Pharmacy (for Ladies), Moshi, Pune	07/02/2020-08/02/2020
4.	Shweta Ghodke	SPPU Sponsored two days National Level seminar on "Pharmaceutical Validation"	PES's Modern College of Pharmacy (for Ladies), Moshi, Pune	22/02/2020-23/02/2020
5.	Prachi Gholve	Elite institute of Pharma skills sponsored national level conference on " Medical coding poster competition"	PES's Modern College of Pharmacy Nigdi, Pune	06/03/2020
6.	Shweta Ghodke, Vikrant Kande, Shraddha Makeswar, Varsha Satav	Guest lecture series on "Proteomics and Metabolomics: Applications in Pharmacology Research"	Dr. D.Y.Patil Institute of Pharmaceutical science & Research, Pimpri, Pune	11/09/2019
7.	Rahul Dighe	"Exploring pathway on hypothesis & potential treatment option for mitigation of covid 19"	SGMSPM's SP College of Pharmacy Dumbarwadi (Otur), Junnar, Pune	23/05/2020
8.	Rahul Dighe	Herbal start up : scope & challenges	SGMSPM's SP College of Pharmacy Dumbarwadi (Otur), Junnar, Pune	17/05/2020
9.	Rahul Dighe	Writing a Thesis: For B. Pharm M. Pharm projects	Mybo Groups	17/05/2020
10.	Rahul Dighe	Covid 19 awareness and prevention brace	SGMSPM's SP College of Pharmacy Dumbarwadi (Otur), Junnar, Pune	27/04/2020
11.	Rahul Dighe	Webinar "mindset & career enhancement "	SGMSPM's SP College of Pharmacy Dumbarwadi (Otur), Junnar, Pune	24/05/2020
12.	Rahul Dighe	Emerging prospects in Pharmaceutical Industry	Pharmet 2020-MITCON Institute of Management	08/02/2020




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A. Y. 2018-2019

Sr. No.	Name of Student	Name of Event	Name of Organization	Date
1.	Pradnya Thorat Reshma Nehere	SPPU Sponsored two days state level seminar on "A systematic approach to preclinical studies"	Dr. D.Y. Patil Institute of Pharmaceutical science & Research, Pimpri, Pune	11/01/2019- 12/01/2019
2.	Ghodake Shweta, Kandge Vikrant, Koradkar Krushna, Makeswar Shraddha Satav Varsha, Waghmare Chaitali	SPPU Sponsored Two Days National Level Seminar on "Pharmacovigilance: Perspectives and Emerging Trends".	SMT. Kashibai Navale College Of Pharmacy, Kondhwa (BK), Pune- 48.	12/10/2018- 13/10/2018
3.	Shruti Mooliya	One day state level research presentation competition	AISSMS College of Pharmacy, Kennedy Road, Near RTO, Pune	16/10/2018




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Sample for Seminars Attended by Students (Sample 2022-23)





Participative Learning Initiatives



Data of Guest Lectures Conducted for Students



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Data of Guest Lectures Conducted for Students

(Last 5 years)


A.Y. 2022-2023

Sr. No	Speaker Details	Topic	Date
1.	Mrs. Samruddhi Panse Baya karve Stri Abhyas Kendra, Pune	An Awareness programme on Gender Sensitisation	23/03/2023
2.	Mr. Sagar S. Jadhav FCE Scientist, Colorcon Asis Pvt. Ltd. Goa	Implementation of QbD Principles for tablet coating	01/04/2023
3.	Dr. Digambar Ambikar Associate Professor, SCES's Indira College of Pharmacy, Tathawade Pune	Translational Pharmaology: From bedside to bench and benchside to bed again	28/04/2023
4.	Mr. Santosh A. Bhende Associate Manager (Materials Science Department), LabCorp Drug Development, Pune	"Recent regulatory updates in N-Nitrosamine impurities in pharmaceutical drug products."	13/05/2023
5.	Mr. Amol V. Deshpande AGM (Technology Transfer) Emcure Pvt. Ltd, Pune	"Technology Transfer of Solid Oral Dosage forms: An industrial Perspective."	13/05/2023
6.	Mrs. Anjali M. Dhaske MSc, MEd, Pune	Gender Equality	15/05/2023
7.	Dr. Govind Deshpande Director, MAGS-IATRC Research & Training Pvt. Ltd. Bhosari, Pune	Applications of Analytical Instrument's in Pharmaceutical Industry	19/05/2023
8.	Dr. Senthil Thyagarajan Founder, Director & head CRO BioRadius Therapeutic Research Pvt Ltd, Pune	Current Trend & Prospects in Clinical Research-Drugs & Biopharmaceuticals.	30/05/2023
9.	Dr. Vivek Tarate & Mr. Mahesh Jadhav Intellectual Institute of Education and Research	Drug Regulatory Affairs	17/03/2023
10.	Dr. Suresh G. Sudke Professor, GES's SCP, Satara	Stop Plagiarism: Best Practice for Scientific Writing	23/11/2022
11.	Dr. Vivek Tarate & Mr. Mahesh Jadhav Intellectual Institute of Education and Research	Intellectual Property Rights	07/09/2022

A. Y. 2021-2022

Sr. No	Speaker Details	Topic	Date
1.	Smt. Bageshri Manthalkar Senate member, SPPU Pune	Women empowerment	04/03/2022




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2.	Dr. Rohini R. Pujari Assistant Prof., School of Pharmacy, MITWPU, Pune	Modern Techniques in Experimental Pharmacology	25/04/2022
3.	Dr. Mrs. Monika Rao Prof., AISSMS College of Pharmacy, Pune	Importance of Diffusion and Dissolution Studies	05/04/2022
4.	Dr. Asha Thomas Prof. Dr. D. Y Patil Institute of Pharmaceutical Sciences and Research, Pune	Interpretation in NMR and Mass Spectroscopy	12/05/2022
5.	Mr. Santosh Shedge Director, Genericplus Pharmacy, Pune	Entrepreneurship Opportunities in the field of Generic medicine	20/05/2022
6.	Mrs. Vartika Dixit Testbook Skill Academy	Testbook Skill Academy Webinar on Interview Preparation	28/05/2022
7.	Mr. Manoj Padghan Career Labs Ltd	Dr. Reddy's placement orientation	05/05/2022
8.	Clini India	Importance of Profession Ready Training in CRPV	30/04/2022
9.	Mrs. Gayatri Shardul Kite Ai Technologies Pvt Ltd Pune	Webinar on Clinical Trial Data Analytics	14/03/2022
10.	Mr. Hariharan Swamy, Certified trainer for PV& Ms. Shweta Kendre Global Talent Track & Barclays	Three days online Technical Skills (Pharmacovigilance) Training Program	20/01/2022 to 22/01/2022
11.	Prof. Shantanu Kale, Financial Adviser	Financial literacy for enhancement of employability	17/12/2021
12.	Mr. Peyush Rajput & Ms. Gayatri Shardul Sr. Manager Operations Kite-Ai Technologies Pvt. Ltd, Pune	Career in Clinical Trials & Data Analytics	27/11/2021
13.	Mr. Jugjit Singh Cheema Regional Manager UKEAS, Intake Education Pvt Ltd	Webinar on Higher Education at UK	30/10/2021
14.	Santosh Awasarkar, CO-Founder & Director, Pursullence GBS LLP, Pune, Granullence Technologies LLP, Pune, E- Prolence Technologies LLP, Pune	Secret of Professional Networking & Winning first job for freshers	18/09/2021
15.	Rahul Rai, HR manager, Barclays, Pune	Four days online Life skills training program in collaboration with Global Talent Track and Barclays	12/07/2021 -15/07/2021




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A.Y. 2020-2021

Sr. No	Speaker Details	Topic	Date
1	Prof. Pravin Buge Career counsellor, Unique academy, Pune	Career opportunities for Pharmacy graduates through competitive exams	04/07/2020
2	Archana Gawde Director, Ellite, Pune	Medical Coding and CPC certification	08/08/2020
3	Ankita Yawalkar	Basic pharmaceuticals	09/08/2020
4	Mr. Meher R. Tundulwar RACE (Royal Academy of Career Excellence)	Job opportunities in Pharmacovigilance, Medical coding, clinical research and other pharma fields	08/11/2020
5	Mr. Rahul Wathore, RBM, Leadership Trainer and Lifestyle Coach	How to get selected in first interview and pharma opportunities	08/12/2020
6	Mr. Rahul Wathore, RBM, Leadership Trainer and Lifestyle Coach	How to get selected in first interview and pharma opportunities for students	09/12/2020
7	Mr. Devendra Visokar Assit. Prof., PES'S MCOP, Nigdi, Pune	How to nail Group discussion and aptitude test	30/01/2021
8	Mr. Sandeep Pawle RSM Dr. Reddy's Laboratories Ltd	Career opportunities in Sales & Marketing	06/02/2021
9	Mr. Nitin Patil, Domain Training lead, Cognizant. Ltd. Pune & Mrs. Shweta Joshi, Corporate trainer, Cognizant. Ltd. Mumbai	Overview & Career prospects - Clinical Research (PV, CDM, MW)	13/02/2021
10	Mr. Deepak Patil Sr. Manager Sales & Mkt., Sahyadri Hospital, Pune	Career Opportunities in Healthcare Management & Medical Tourism	20/02/2021
11	Mr. Piyush Garje HR, Crave Infotech Ltd. Pune	National Level Webinar on, "Interview Skills"	12/05/2021

A.Y. 2019-2020

Sr. No	Speaker Details	Topic	Date
1	Prof. Anil Dandekar Retd. Principal, MIT College, Pune.	Disaster management	28/08/2019
2	Prof. Anil Dandekar Retd. Principal, MIT College, Pune.	Disaster management	29/08/2019



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3.	Ms. Neha Aher HR, Symbiosis Society, Pune	Personality Traits of A Successful Entrepreneur	07/09/2019
4	Dr. Gaurav Damdar Clinical Pharmacist At Deenanath Mangeshkar Hospital, Pune	Career opportunities after Pharm. D.	23/12/2019
5	Dr. Sachin Surve, Coordinator, SPPU, Pune	Skills for Success	20/01/2020
6	Dr. Rucha Mohata Medical Writer at Docplexus, Pune	Medical Writing	07/02/2020
7	Dr. Rajiv Nagarkar BAMS, Clinical Psychologist, NLP Practitioner, Pune	New normal	27/06/2020

A.Y. 2018-2019

Sr. No	Speaker Details	Topic	Date
1	Ms. Rashmita Babu HR Executive, Milan Laboratories, Mumbai	Interview techniques	23/07/18
2	Ms. Archana Gawade Director, Ellite, Pune	Scope in Pharmacovigilance	28/07/2018
3	Mr. Deepak Padwal Founder, Innospire group, Pune	Goal setting and Career Planning	11/08/2018
4	Prof. Anil Dandekar Retd. Principal, MIT College, Pune.	Disaster management	28/09/2018
5	Mr. Sandeep Kulkarni Associate Vice President, Harbinger Group, Pune	Use of Quillionz for pharmacy teachers	03/10/2018




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Sample for Guest Lectures Conducted

P. E. Society's

Modern College of Pharmacy, Nigdi, Pune.

Academic Year 2022-23

Date: 29/05/2023

Notice

We Modern College of Pharmacy, Nigdi, Pune has scheduled the Guest Lecture for All B. Pharm, M. Pharm & Pharm D students on 30-05-2023 at 11:00 am on the topic: **"Current Trend & Prospects in Clinical Research-Drugs & Biopharmaceuticals."**

Following are the details of Guest Lecture:-

For B. Pharm, M. Pharm & Pharm D student's Seminar Session will be Offline at Seminar Hall.

Guest Details are as:

Dr. Senthil Thyagarajan,

Founder, Director & Head CRO,

BioRadius Therapeutic Research Pvt Ltd, Pune

Dr. Smita S. Pimple

Professor (Department of Pharmaceutics)



Dr. P. D. Chaudhari

Principal



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Approved by Pharmacy Council of India, New Delhi, All India Council for Technical Education, Directorate of Technical Education, Mumbai (MS), Permanently Affiliated to Savitribai Phule Pune University, Pune & Approved under Section(2) (f) & 12 (B) of UGC Act, 1956

Ref: MCP/INV/2022-23/372-1

Date: 23/05/2023

To,

Dr. Senthil Thyagarajan,

Founder, Director & Head CRO,

BioRadius Therapeutic Research Pvt Ltd, Pune

Subject: **Invitation as a guest for lecture.**

Respected Sir,

Our college is one of the renowned institutes in offering pharmacy education in Nigdi, Pune region conducting B. Pharm, M. Pharm & Pharm D courses. I take this opportunity to invite you as guest for lecture to our students and will be highly obliged if you accept our invitation. I request you to kindly convey the date and time according to your convenience for the same.

Thanking you,

Yours truly,



Dr. P. D. Chaudhari
Principal



P. E. Society's
Modern College of Pharmacy, Nigdi, Pune.
Academic Year 2022-23

Date: 30/05/2023

Attendance sheet

Modern College of Pharmacy, Nigdi has arranged Seminar on "Current Trend & Prospects in Clinical Research-Drugs & Biopharmaceuticals"

Sr.No	Name	B.Pharm/ M.Pharm	Branch	Sign
1.	Ajay P. Patange	F.Y.M.Pharm	QAT	
2.	Aditya D. Chonde	F.Y.M.pharm	QAT	A.D.Chonde
3.	SHUBHAM. S. DESHPANDE	---	P. ceutics	SD
4.	Divya M. Dhamankar	F.Y.M.ph	P'ceutics	
5.	Harshal .R. Patil	F.Y.M.Ph	P'ceutics	
6.	Ganesh .S. Desai	F.Y.M.ph	P'ceutics	
7.	Abhijeet P. More	F.Y.M.ph	QAT	
8.	Rohit P. Gambhire	F.Y.M.ph	QAT	
9.	shivshankar R. waghmare	F.Y.ph	QAT	
10.	Bhand Nitin .Maehhindra	F.Y.ph	p'ceutics	
11.	Kalyani Shantaram Ghotekar	F.Y.ph	P'ceutics	
12.	more Greetonjoli Pandurang	F.Y.Ph.	P'ceutics	
13.	sonowone Sokshi Rajendra	F.Y.ph.	P'ceutics	
14.	Pratiksha Laxman Rout	F.Y.Ph	QAT	
15.	Omkan Dattatray Makey	F.Y.ph	Chemistry	
16.	vishal .A. Varte	F.Y.ph	ceutics	
17.	Vaishnavi S. More	F.Y.M.Pharm	ceutics	
18.	Pooja B. Salgar	"	"	
19.	Sneha Jadhav	"	"	
20.	Magar Vaishnavi S.	S.Y.M.pharm	P'ceutical chemistry	



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Criteria 2: Teaching- Learning and Evaluation



21.	Radhika S. Vyavahare	S.Y.M.Pharm	P'ceutical Chemistry	<u>TS</u>
22.	Vaishali G. Chitla	Final yr	B. Pharm	<u>VG</u>
23.	Khushbhoo Choudhary	Final yr	-11-	<u>Khush</u>
24.	Tejaswini Basate	Final yr	-11-	<u>Teju</u>
25.	Akshay Deo	Final yr	-11-	<u>Deo</u>
26.	Ajay Dhapate	Final yr	-11-	<u>Aj</u>
27.	Rohit Choudhary	Final yr.	-11-	<u>Rohit</u>
28.	Snishhi Jha	Final yr.	-11-	<u>Snishhi</u>
29.	Harshad Bhikar	Ruby	-11-	<u>Harshad</u>
30.	Surabhi Shinde	M.Pharm	P'cology	<u>Shinde</u>
31.	Pratiksha Hajare	-11-	-11-	<u>Pratiksha</u>
32.	Dhoneshri Katkar	-11-	-11-	<u>Dhoneshri</u>
33.	Nikita Pawar	-11-	-11-	<u>Nikita</u>
34.	Pronali Bhandare	-11-	-11-	<u>Bhandare</u>
35.	Kajal Pawade	-11-	-11-	<u>Pawade</u>
36.	Ganesh Pore	M.Pharm	P'cology	<u>Ganesh</u>
37.	Abhijit Deshmukh	M.Pharm	-11-	<u>Abhijit</u>
38.	Vinod Gaikwad	-11-	-11-	<u>Vinod</u>
39.	Akansa Amritkar	-11-	-11-	<u>Akansa</u>
40.	Rushikesh Nalin Nitkalpe	mpharm	QAT	<u>Rushikesh</u>
41.	Mayuri Auti	-11-	QAT	<u>Mayuri</u>
42.	Aaditya Vinayak. Gaikwad	S.Y.PharmD		<u>Aaditya</u>
43.	Ankit Dilip Jadhao	S.Y.PharmD		<u>Ankit</u>
44.	Nizanjan Satish Ringane	S.Y.PharmD		<u>Nizanjan</u>
45.	Yuvraj Bapu Jadhav	S.Y.PharmD		<u>Yuvraj</u>



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46.	Vaishnavi. Burhale			Burhale
47.	Nagalapure. Pooja. Prabhu	F.Y.M.ph	Chemistry	Pooja
48.	Madar. Prateeksha. Ramesh	F.Y.M.ph	Chem	Prateeksha
49.	Yabangi Arpita Vitthal	F.Y.M.Ph	P.cology	Arpita
50.	Kashure Snehal Hanamant	"	P. Cology	Snehal
51.	Jagtap projekta Bajrang	"	P.cology	Projekta
52.	Babhulkar Rasika Prakash	"	P.cology	Rasika
53.	Gurufe Nandini Narsingprao	M.Pharm	chemistry	Nandini
54.	Jagdale Gayatri	M.Pharm	chemistry	Gayatri
55.	Shinde Asavari R.	m-pharm	chemistry	Asavari
56.	Gholap Abhijit B.	S.Y. M.Pharm	QAT	Abhijit
57.	Podil Ankita Pradeep	S.Y. M. Pharm	QAT	Ankita
58.	Jadhav Siddheshwer L.	S.Y.M.Ph	QAT	Siddheshwer
59.	Gangrade Madhura A.	F.Y.M.ph	P'cology	Madhura
60.	Sukshamta Balure	5 th year Pharm	-	Sukshamta
61.	Anjali Gaikwad	F.Y. M-pharm	P'cology	Anjali
62.	Pawar Saadhana S.	F.Y.M.Ph	P'cology	Saadhana
63.	Harshali Dishwaraze	- " -	- " -	Harshali
64.	Alfiya Biradar	F.Y.mph	P-Cology	Alfiya
65.	Faiza Shaikh.	I.M-Pharm	P-Cology	Faiza
66.	Toupti Gadhave.	- " -	- " -	Toupti
67.	Purva Vernekar.	- " -	- " -	Purva
68.	Meha Balde.	- " -	- " -	Meha
69.	Pooja Sawant.	F.Y. MPharm	P-Cology.	Pooja
70.	Hake Pallavi	I.MPh.	Pcology	Pallavi



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Criteria 2: Teaching- Learning and Evaluation



71.	Hajare Pratibha	S.Y. Ph	Phology	Pratibha
72.	Dhanashree Katalkar	—II—	—II—	Dhanashree Katalkar
73.	Samiksha Patokar	F.Y. M.Pharm	chemistry	Patokar
74.	Ameshri Desai	M.Pharm	chemistry	Desai
75.	Patil Akanksha V.	—II—	—II—	AV Patil
76.	Rathod monika V.	M.Pharm F.Y.	chemistry	Monika
77.	Varsha Sunil Pawar	—II—	QAT	Varsha
78.	Damini P. shinde	M.Pharm	QAT	Damini
79.	Meghana N. Patil	M.Pharm F.Y.	QAT	Meghana
80.	Rutuja. Satish Sonawane	M.Pharm F.Y.	QAT	Rutuja
81.	Namrata J. Daphale	M.Pharm F.Y.	QAT	Namrata
82.	Sampada Rakshe	F.Y. M.Pharm	QAT	Sampada
83.	Shruti Hare	F.Y. PharmD.	—	Shruti
84.	Muskaan Nawale	F.Y. PharmD.	—	Muskaan
85.	Shruti Sutar	F.Y. PharmD.	—	Shruti
86.	Shruti Ingle	F.Y. PharmD.	—	Shruti
87.	Abhishek Nagure	M.Pharm	QAT	Abhishek
88.	Animesh R. Patil	M.Pharm	ology	AR Patil
89.	Onkar surwase	M.Pharm	PH	Onkar
90.	pavans Naughere	M.Pharm	QAT	Pavans
91.	Krushna Hanne	M.Pharm	P'centics	Krushna
92.	Prathmesh A. Nale	M.Pharm	QAT	Prathmesh
93.	Greeta A. Anawade	M.Pharm	chem	Greeta
94.	virendra Kambale	—II—	—II—	Virendra
95.	Taxate Swapnil	—II—	centics	Swapnil



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96.	pathan Adil	m-pharmaceutics	Adil
97.	Vanshika Lulla	F-y pharmd	—
98.	RevaH Gaikwad	F.Y. pharmd	—
99.	sybani songwane	F.Y. pharmd	—
100	Ualshnavi cheke.	F.Y. pharmd	—

Dr. Smita S. Pimple

Professor (Department of Pharmaceutics)



Dr. P. D. Chaudhari

Principal



Name of guest lecturer: **Dr. Senthil Thyagarajan**

Founder, Director & Head CRO,
BioRadius Therapeutics Research Pvt. Ltd, Pune.

Topic: Current Trend & prospects in Clinical Research-Drugs & Biopharmaceuticals.

Date: 30/05/2023

Arranged for: For B. Pharm., M. Pharm, Pharm D. students (100)



Dr. S S Pimple
Portfolio Incharge



Dr. P D Chaudhari
Principal



Data of Career Guidance Conducted for Students



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Career Guidance Activities Conducted for Students

(Last 5 years)


A.Y. 2022-2023

Sr. No	Name of Guest Speaker	Name of Activity	Date
1	Ms. Smita Dabke, Ms. Menakshi Rawat, Ms. Manisha Poshengir	Counseling Session regarding higher education at abroad	06/04 2023
2	Mr. Amit Manal	Current Career Opportunities for Pharmacy Students	18/03/ 2023
3	Mr. Stephen Dinakaran, Ms. Nidhi Nigam & Mr. Sashi Das, TCS	Career Opportunity with TCS	16/02/2023
4	Mr. Amit Tipnis, Mr. Mahesh Singh & Mr. Pranesh Kulkarni	Global Career and Higher Education Opportunity for Pharmacy professionals	09/02/2023
5	Ms. Krishni Miglani Testbook Skill Academy	Testbook Skill Academy Digital Marketing	21/01/ 2023
6	Ms. Mahima Sindhi Testbook Skill Academy	Testbook Skill Academy Personality Development	24/12 2022
7	Mrs. Shilpa Khune Global Talent Track	Barclay's Soft Skills and Communication	28/12/2022-30/12/2022
8	Mr. Nitin Patil & Ms. Shweta Joshi Cognizant	Career to Pharmacovigilance and campus to corporate	01/10 2022
9	Mr. Sourabh Kabra Testbook Skill Academy	Testbook Skill Academy How to Crack a Dream Job being a Non-Itian	17/09 2022

A. Y. 2021-2022

Sr. No	Name of Guest Speaker	Name of Activity	Date
1	Mrs. Vartika Dixit Testbook Skill Acaademy	Testbook Skill Academy Webinar on Interview Preparation	28/05/2022
2	Mr. Manoj Padghan Career Labs Ltd	Dr Reddy's Placement Orientation for M.Pharmacy students by Career Labs LTD	05/05/2022
3	Clini India	Importance of Profession Ready Training in Clinical Research and Pharmacovigilance	30/04/2022
4	Testbook Skill Acaademy	Testbook Skill Acaademy Campus Programme organized Live Aptitude test	24/04/2022-29/04/2022
5	Mr. Tariq Shaikh, HR Global Talent Track foundation	Barclay's Soft Skills Development Program	24/03/2022-26/03/2022
6	Mrs. Gayatri Shardul Kite Ai Technologies Pvt Ltd, Pune	Webinar on Clinical Trial Data Analytics	14/03/2022
7	Mr. Hariharan Swamy ,certified trainer for PV&Ms. Shweta Kendre HR	Three days online Technical skills (PV) training program in collaboration with Global Talent Track & Barclays	20/01/2022-22/01/2022




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8	Prof. Shantanu Kale	'Financial literacy for enhancement of employability'	17/12/2021
9	Mr. Peyush Rajput & Ms. Gayatri Shardul Sr. Manager Operations Kite-Ai Technologies Pvt. Ltd, Pune	'Career in Clinical Trials & Data Analytics' in collaboration with Kite-Ai Technologies Pvt. Ltd.	27/11/2021
10	Mr. Jugjit Singh Cheema Regional Manager UKEAS, Intake education pvt ltd.	Webinar on Higher education at UK in collaboration with Intake Education Pune	30/10/2021
11	Santosh Awasarkar, CO-Founder & Director, Pursullence GBS LLP, Pune, Granullence Technologies LLP, Pune, E-ProLense Technologies LLP, Pune	A guest lecture by Mr. on the topic "Secret of Professional Networking & Winning first job for fresher's has been arranged	18/09/2021
12	Rahul Pai, HR, Barclays, Pune	four days online Life skills training program in collaboration with Global Talent Track and Barclays	12/07/2021 15/07/2021


A. Y. 2020-2021

Sr.No	Name of Guest Speaker	Name of Activity	Date
1	Mr. Piyush Garje HR, Crave Infotech Ltd, Pune	National Level Webinar on, "Interview Skills" for Pharmacy Fresher's	12/05/2021
2	Mr. Deepak Patil Sr. Manager Sales & Mkt. Sahyadri Hospital, Pune	Career Opportunities in Healthcare Management & Medical Tourism	20/02/2021
3	Mr. Nitin Patil, Domain Training lead, & Mrs Shweta Joshi, Corporate trainer, Cognizant, Ltd. Mumbai	"Overview & Career prospects - Clinical Research (PV, CDIABETES MELLITUS, MW)	13/02/2021
4	Mr. Sandeep Pawle RSM Dr. Reddy's Laboratories Ltd	Career opportunities in Sales & Marketing	06/02/2021
5	Mr. Devendra Visokar,	How to nail Group discussion and aptitude test	30/01/2021

A. Y. 2019-2020

Sr.No	Name of Guest Speaker	Name of Activity	Date
1	Mr. Gaurav P. Nagapuskar	Education in UK after B Pharmacy	28/02/2020
2	Mr. Anand Joshi	Career Guidance to Pharmacy students	24/02/2020
3	Mr. Varun Dhakne & Mr. Meher Tundulwar	Career Guidance(A good personality is the key to win in job interview & How to search for a job: Challenges and opportunity	08/02/2020




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Sample for Carrier Guidance Conducted For Students



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**MODERN COLLEGE OF
PHARMACY**

**Barclay's Soft Skill
Development Program**

Topic: GD, Aptitude test and
Personal interview

In Collaboration With GTT
Foundation

Date: 28/11/2022 to 30/11/2022
Time: 10:00 to 5:00

Venue: Seminar Hall

Organized by: Training and placement cell MCOP.

For queries: mcopnigdi.tpo@gmail.com



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P. E. Society's

Modern College of Pharmacy, Nigdi, Pune.

Academic Year 2022-23

Date: 23/11/22

Training and Placement Cell

Notice

All the students of **Final Y B.Pharm and M.Pharm (Ist and IInd Yr)** are hereby informed that three days Barclay's soft skill development program in collaboration with GTT foundation has been organized from **28th Nov 22 to 30th Nov 22** from 10:00 am to 5:00 pm at seminar hall.

Topic: Group discussion, Aptitude test and Personal interview.

Note: Attendance will be noted of each student.

Dr. K. S. Shaikh

Training and Placement Cell



Dr. P. D. Chaudhari

Principal



Workshop Report

Name of workshop: Barclay's Soft Skill Development Program

Organized by: PES, Modern College of Pharmacy, Nigdi.

Name of company: Barclays Global Talent Track.

Date of interview: 28/11/22 to 30/11/22

Class of students: Final Year B.Pharm, M.Pharm final year

Summary

Training and Placement Cell of PES, Modern College of Pharmacy, Nigdi, organized Barclay's soft skill development program from 28th November 2022 to 30th November 2022. Mrs. Shilpa Khune, Global Talent Track Foundation conducted 3 days workshop for aspirants. Total 24 hours of high impact workshop on Soft Skills and Communication was conducted by expert from the corporate with immense relevant industry experience. Workshop was conducted from 10:00 am to 5:00 pm for 3 days.

A customized Program on topics that range from Soft Skills to communication to Aptitude training was covered for students. Mrs. Shilpa Khune on day-1 had training on personality development which covered various activities, Pre assessment, building Self-Awareness.

Day-2 covered Group Discussions, Corporate Readiness contains values in a corporate environment, post assessment, debate, Teamwork, Flexibility, Time Management.

Day-3 extended on Mock Interviews, stress management, positive attitude & personal interview which covered building Online Image, Self-Awareness, Grooming, Body Language, Confidence, Interview FAQs, Resume, Rejections. Total 85 students got benefited from this training program.




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Photos of event



Interaction of the resource person with the students



Participants of the session



Different activities conducted for the students

(Debate Competition)

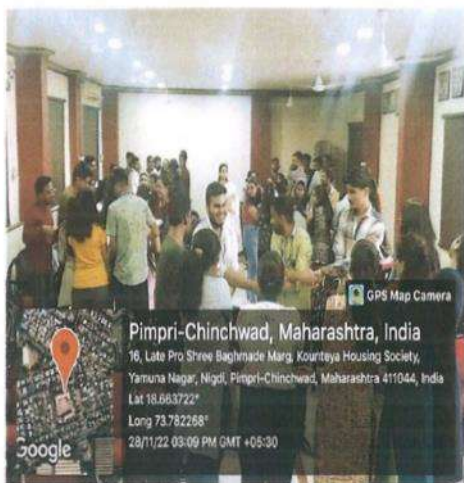
(Group Discussion)



Dr. K. S. Shaikh

Training and Placement Cell
Dr. K. S. Shaikh

[Signature]
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Different activities conducted for the students
(Benefits of Team Work)



Felicitation of the resource person by
Principal Sir



Dr. K. S. Shaikh

Training and Placement Cell
Dr. K. S. Shaikh

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

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Data of Guest Lectures for Competitive Examination



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Data of Guest Lectures for Competitive Examination

(Last 5 years)

A. Y. 2022-2023

Sr. No.	Name of speaker with designation	Title of seminar	Date
1	Mr. Asthabhuj Sukla Pharmalite Mumbai	Novel innovative ways to prepare for GPAT and NIPER preparation	01/02/2023
2	Mr. Pranav Ganatra Founder and CEO of Pharmacad Pvt. Ltd.	Competitive exam and higher education in pharmacy	28/11/2022
3	Neha Shaikh Intake education, Pune	Study in the UK	17/09/2022
4	Mr. Piyush Agrawal Director, GPAT Discussion Center	Get Success in GPAT and other Pharma Competitive Exams	14/09/2022

A. Y. 2021-2022

Sr.No.	Name of speaker with designation	Title of seminar	Date
1	Mr. Vijaykumar Chakote Pharmastar Academy	How to crack GPAT	15/02/2022
2	Mr. Pranav Ghatge Pharmacad Pune	Competitive Exams and Higher education in Pharmacy	08/09/2021

A. Y. 2020-2021

No lectures were arranged due to pandemic Covid-19 situation			
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A. Y. 2019-2020

Sr.No.	Name of speaker with designation	Title of seminar	Date
1	Mr. Gurav Nagapurkar Education Consultant, Pune	Education in Germany after B. Pharmacy	05/03/2020
2	Mr. Rohit Kalvit Director, Das Ziel Consultancy, Pune	Education in Germany after B. Pharm	02/03/2020
3	Mr. Anand Joshi Director, T.I.M. E institute, Pune	Glimpse on Various Entrance exams after B. Pharm	24/02/2020
4	Prof. Rajendra Gade Asst. Professor, Lotus Business School, Pune	Competitive exam after B. Pharmacy	13/02/2020
5	Mr. Rohit Waghmare Student, NIPER, Ahmedabad	Competitive exam after B. Pharmacy	07/10/2019

A. Y. 2018-2019


Sr.No.	Name of speaker with designation	Title of seminar	Date
1	Mr. Suraj Shinde Passedout Student, NIPER	Competitive exam preparation	13/03/19
2	Dr. M. D. Burande Director, Lotus Business School, Pune	Pharmaceutical sector and new opportunities	06/03/19




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3	Runali Patil Junior Executive, SAVA Healthcare, Pune	Career guidance and competitive exam preparation	11/08/18
4	Mr. Yogesh Ranga Executive, Chopra's Consultancy, Pune	Career guidance and competitive exam preparation	06/08/18
5	DR. C. Bothiraja Associate Professor, PCP, Pune	GPAT- Competitive exam preparation	03/08/18
6	Dr. Rajendra Patil Assistant Professor, JSPM, Thathwadepune	Career guidance and GPAT preparation	01/08/18





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Sample for Guest Lectures for Competitive Examination

Progressive Education Society's
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Nigdi Pune



Guest lecture on Competitive exam and higher education in pharmacy









Mr. Pranav Ganatra
Founder and CEO of Pharmacad Pvt, Ltd

Principal
P. E. S. Modern College of Pharmacy
Sector No. 29, Yamunanagar, Punjab
Phone - 411 044.

28/11/22
1:00 PM Onwards

Classroom

Modern College of Pharmacy Nigdi

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PES MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE – 44

Academic Year: 2022 - 23

Name of speaker with designation : Mr. Pranav Ganatra

Title of seminar : Competitive exam and higher education in pharmacy

Date : 28/11/2022

Number of students benefited : 46

Mr. Pranav Ganatra, Founder and CEO of Pharmacad Pvt, Ltd. Mumbai has guided students regarding preparation of competitive examination. He gave guidance on techniques, strategies, books, main subjects, marking system, syllabus of GPAT and other competitive exams such as NIPER, Manipal, UICT, etc.

The session was very informative. 46 students from Third year & Final year B. Pharm has attended the session.

Dr. Minal T Harde

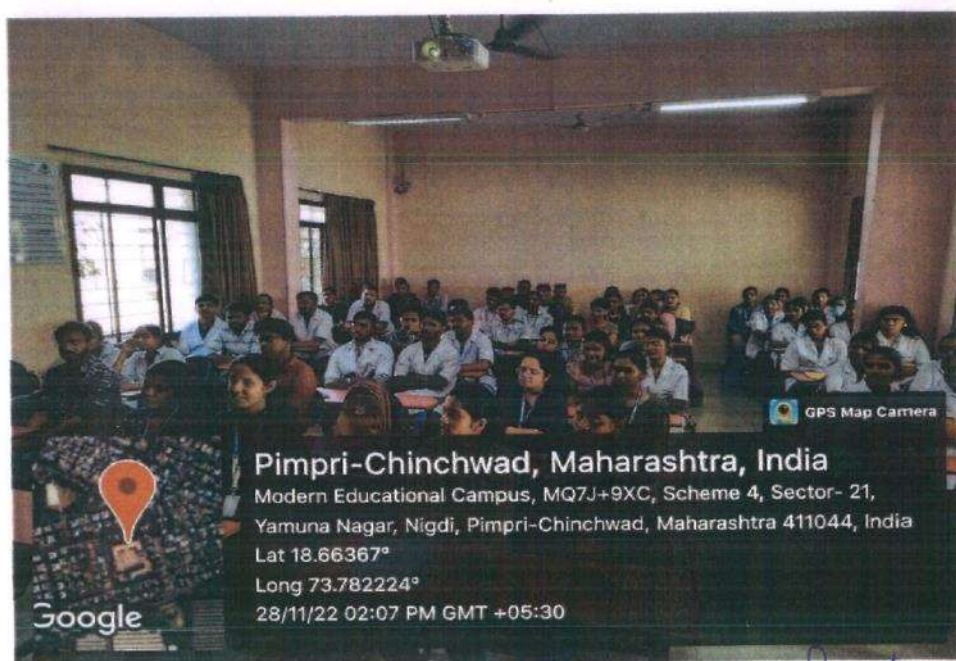
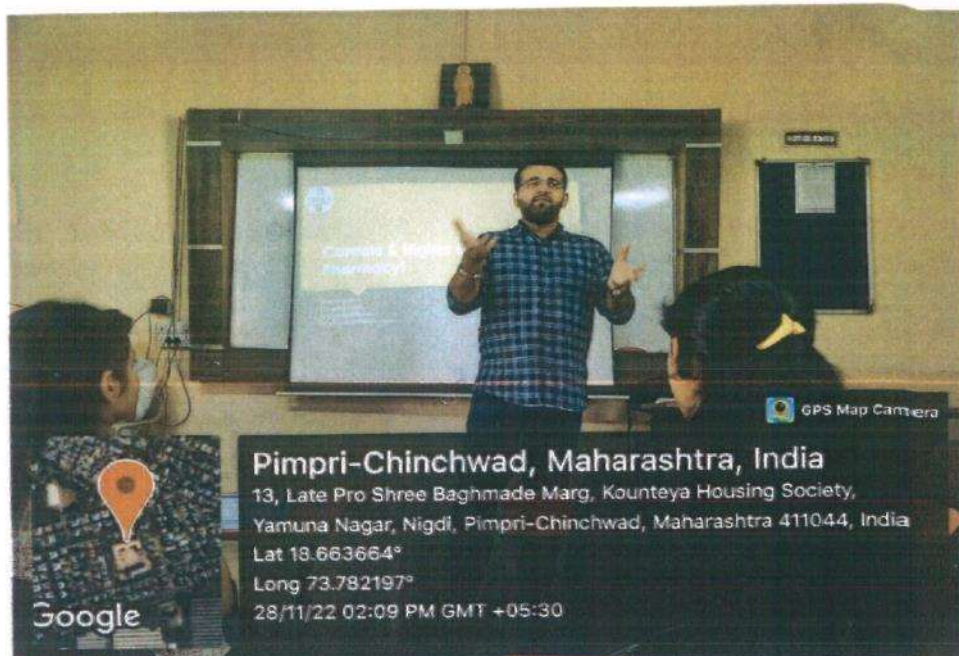
Activity In-Charge



Dr. P. D. Chaudhari

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Data of Students Participation in Co-curricular Activities



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Data of Students Participation in Co-curricular Activities (NPW - In-house Activities) (Last 5 Years) A. Y. 2022-23

Sr. No	Name of Activity	Date	Winner/ Runner up Details		No of Participants
			Class	Students	
1.	Elocution competition	08/02/23	Winner (B. Pharm.)	Bhatane Chaitanya, Gurav, Prathmesh, Jadhav Trupti, Jagdale Tanmay	19
			Winner (Pharm D)	Joshi Nikhil	
			Runner up (B. Pharm)	Joshi Atharva, Reddy Mahesh, Sonawane Sweety	
			Runner Up (Pharm D)	Gande Monika	
2.	GK Competition	08/02/23	Winner (M. Pharm)	Gaurav Mahajan	41
			Runner up	Sainath Kamble	
3.	Poster Presentation	09/02/23	Winner (B Pharm)	Srushti Phand	16
			Winner (M. Pharm)	Gadhav Trupti, Shaikh, Fiza & Sadhana Pawar	
			Winner (Pharm D)	Nikita Sanap & Shreyasi Banerjee	
			Runner up (B Pharm)	Harshada Kamthe	
			Runner up (M. Pharm)	Tarate Swapnil & Deshpande Shubham	
			Runner Up (Pharm D)	Monika Gande & Nikhil Joshi	

A. Y. 2021-22

Sr. No	Name of Activity	Date	Winner/ Runner up Details		No of Participants
			Class	Students	
1.	GK competition	24/09/21	Winner (M. Pharm)	Tejmal Bansude	105
			Runner up (M. Pharm)	Anuja Gujar	
2.	Debate Competition	28/03/22	Winner (M. Pharm)	Mayuresh Tekawade, Laxman Ingole, Gauri Shevade, Deepak Bhabad, Sarang Badake	30




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			Runner up (Pharm D)	Nikhil Joshi, Osama Momin, Monica Garde, Ameya Zarekar, Shree Parne	
3.	Poster competition	25/09/21	Winner (M. Pharm)	Vaishnavi Magar	11
			Runner up (M. Pharm)	Pradhnya Autade	
4.	Elocution Competition	28/03/22	Winner(Pharm D)	Nikhil Joshi	04
			Runner up (M. Pharm)	Laxman Ingole	

A.Y.2020-21

No Activities were conducted due to pandemic Covid-19 situation

A. Y. 2019-20

Sr. No	Name of Activity	Date	Winner/ Runner up Details		No of Participants
			Class	Students	
1.	Elocution Competition	27/01/20	Winner (B. Pharm)	Shreenidhi Naik	09
			Runner up (Pharm D)	Atharva Nanday	
2.	GK competition	28/01/20	Winner (Pharm D)	Tejas Parkhe	37
			Winner (B. Pharm)	Shreenidhi Naik	
			Runner up (B. Pharm)	Rutuja Deshmukh	
			Runner up (B. Pharm)	Vedant Patil	
3.	Debate Competition	25/01/20	Winner (M. Pharm)	Mayuresh Tekawade, Pratiksha Kshirsagar, Yash Chavan, Shailesh Lekhwani, Dynesheri Kharsade	29
			Runner up (Pharm D)	Pratik Sharane, Vinay Manocha, Aditya Dalvi, Sushar Jha, Mihir Charchar	

A.Y. 2018-19

Sr. No	Name of Activity	Date	Winner/ Runner up Details		No of Participants
			Class	Students	
1.	Essay Competition	23/02/19	Winner (B. Pharm)	Amrita Kulkarni	6
			Runner Up (B. Pharm)	Pratiksha Raut	
2.	Poster competition	23/02/19	Winner (B. Pharm)	Mugdha Banduke	6
			Runner Up (B. Pharm)	Pratiksha Raut	



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Sample for Students Participated in Co-curricular activities



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Modern College of Pharmacy, Yamunanagar, Nigdi, Pune-44.



REPORT OF NATIONAL PHARMACY WEEK: 2022-23

Essential Details:

Date and Time of Celebration : 08/02/2023 to 09/02/2023

Event Co-ordinators: Mr. Shubham R. Khade; Mr. Siddhartha Savadekar

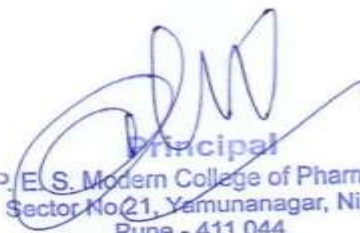
The Indian Pharmaceutical Association (IPA) has been celebrating the National Pharmacy Week every year during the third week of November. The major focus of NPW celebrations is to create awareness amongst the public, other healthcare providers and the authorities, about the NPW theme in specific and about the pharmacy profession and role of the pharmacist in general. The theme selected for this year is: "Pharmacy of World-India".

The Progressive Education Society's Modern College of Pharmacy, Nigdi Pune is one of the active College registered under SPPU involving in various activities of promoting Pharmacy profession and improving value of Pharmacists in the health care sector. One of its major activities is NPW celebration by conducting various Pharma related competitions for students of B. Pharm M. Pharm And Pharm D. Students.

This year also 3 events were conducted from 08/02/2023 to 09/02/2023 in various for all Streams of Pharmacy including Pharm D. student's.

The aim of conducting these events is to motivate the young budding pharmacists to develop their confidence, knowledge, leadership qualities, organizational capacity and make them understand about the importance of the profession thus to excel in the field.




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Following activities were conducted under **National Pharmacy Week** portfolio during the academic year 2022-23

Sr. No.	Event	Date & Time
1.	Elocution Competition on the occasion of National Pharmacy Week 2022-23	08/02/2023 11.00 AM TO 1.00 PM
2.	General Knowledge Competition on the occasion of National Pharmacy Week 2022-23	08/02/2023 1.00 PM TO 2.00 PM
3.	Poster Presentation Competition on the occasion of National Pharmacy Week 2022-23	09/02/2023 3.00 PM TO 5.00 PM



Progressive Education Society's

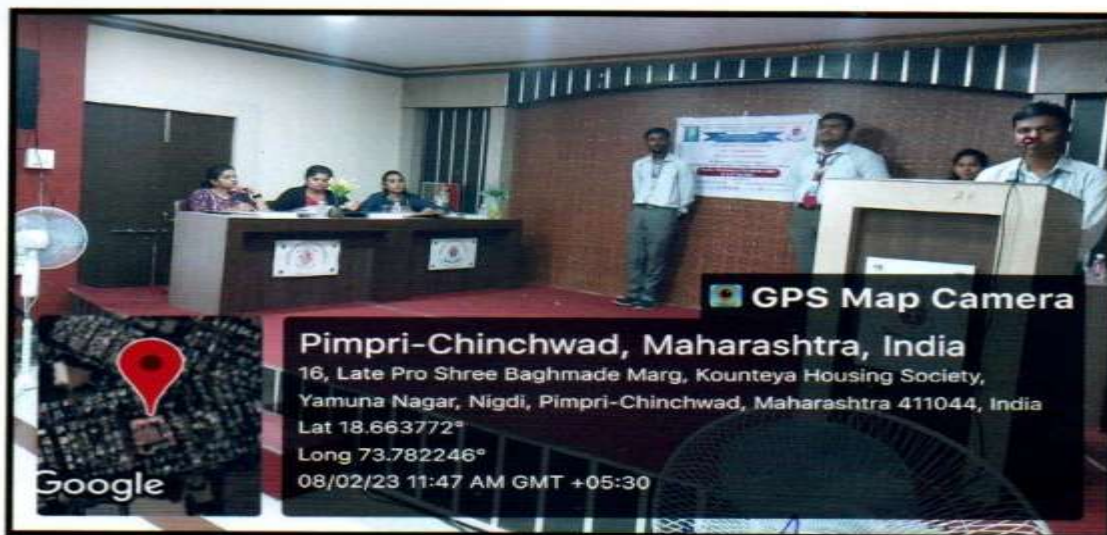
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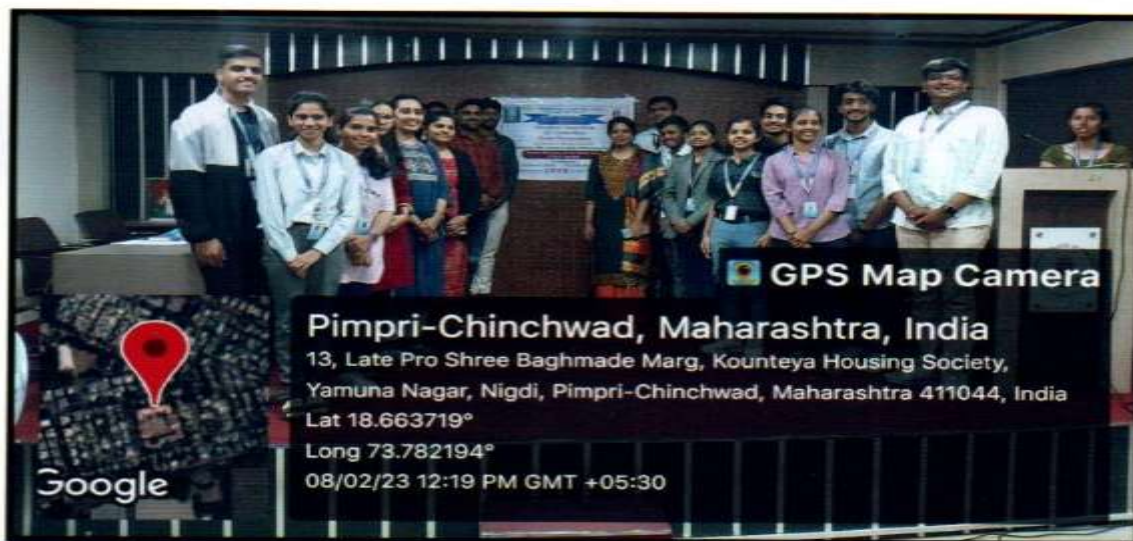
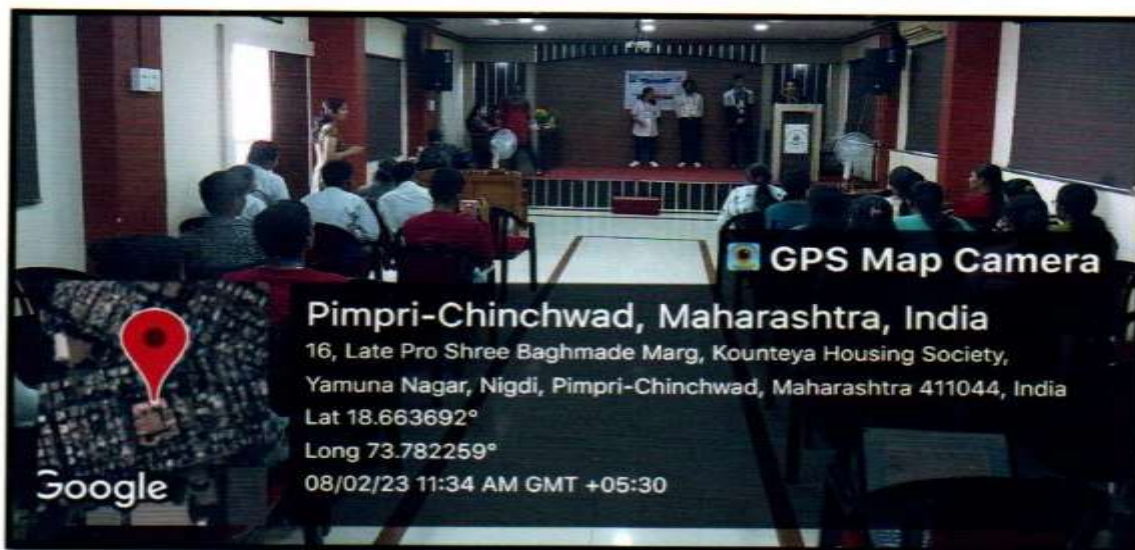
NATIONAL PHARMACY WEEK:


2022-2023

Elocution Competition




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Data of Medical Services Provided by Students



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Data of Medical Services Provided by Students (NSS Activities) (Last 5 years)

A. Y. 2022-2023

Sr. No.	Event	Name of Scheme	Date
1	Blood Donation Camp	Swasth Bharat	03/09/2022
2	Hemoglobin checkup & ABHA card - drive	Swasth Bharat	09/11/2022
3	Distribution of sanitary napkins and counseling regarding the same	Awareness Programme and Swachh Bharat	19/01/2023

A. Y. 2021-2022

Sr. No.	Event	Name of Scheme	Date
1	Covid-19 RT-PCR CAMP organized for faculty and non-teaching staff	Swasth Bharat	29/09/2021
2	Covid-19 Vaccination Drives organized for student	Awareness Programme	29/10/2021
3	AIDS Day Awareness	Awareness Programme	01/12/2021
4	Pulse polio vaccination campaign	Awareness Programme	27/02/2022


A. Y. 2020-2021

Sr. No.	Event	Name of Scheme	Date
1	Blood Donation	Help Campaign/ Donation Drive	14/09/2020
2	SPPU COVID warriors Training	Awareness Programme	05/10/2020
3	Jan Andolan COVID appropriate behavior campaign	Awareness Programme	11/10/2020
4	AIDS awareness	Awareness Programme	06/12/2020
5	Health Awareness - Yogasan demonstration online program	Swasth Bharat	28/03/2021

A. Y. 2019-2020

Sr. No.	Event	Name of Scheme	Date
1	Medicine & Glossary Donation to needy Hansen's disease (laprosy) people at Anand Ashram, Alandi	Help Campaign/ Donation Drive	29/08/2019
2	Pharmacy related Model competition "World Pharmacist DAY"	Awareness Programme	25/09/2019




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3	Blood Donation Camp	Swasth Bharat	23/01/2020
4	Cataract operations camp at Desai eye Hospital mohomadwadi, Pune	Help Campaign / Donation Drive	28/02/2020-29/02/2020
5	COVID-19 awareness campaign	Awareness Programme	12/04/2020

A. Y. 2018-2019

Sr. No.	Event	Name of Scheme	Date
1	Blood Group Detection and HB Check up	Swasth Bharat	21/07/2018
2	Health Check Up camp	Swasth Bharat	16/01/2019
3	Medicines Donation	Help Campaign / Donation Drive	31/01/2019
4	Blood donation Camp	Swasth Bharat	01/02/2019









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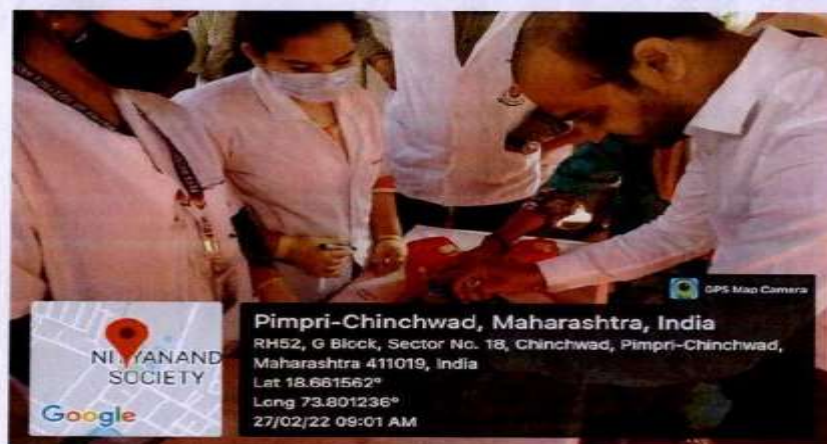


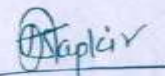
Sample for Medical Services Provided by Students

			
P. E. Society's MODERN COLLEGE OF PHARMACY, NIGDI, PUNE-44 NSS REGULAR ACTIVITY REPORT 2021-22			
1. Name of activity	Pulse Polio Campaign		
2. Date of activity	27.02.22		
3. Time	09.00 am to 5.00 pm		
4. Total no. students participated	100		
5. Occasion of activity	Pulse Polio Abhiyan, Government of India		
6. Inauguration by	Dr. Harish Shende		
7. Place of activity	Sambhajanagar, Nigdi		
8. Objectives of activity	<ul style="list-style-type: none">• To understand the role as a health care provider.• To implement modern & social values		
9. Outcome of activity	<ul style="list-style-type: none">• More than 5000 dose vaccination done.• Students get importance of good health and healthy lifestyle and awareness towards health.		
10. Activity co-coordinator	Dr. A. S. Tapkir Prof.R.M.Gurav Prof.P.A.Pawar		

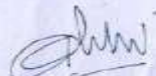







Dr. A. S. Tapkir
NSS Program Officer




Dr. P.D. Chaudhari
Principal

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Problem Solving Learning Initiatives



Research Project

Summary of Research Project Completed- UG Data



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Summary of Research Project Completed- UG Data (Last 5 years)

Sr. No.	Years	No of Projects
1	2022-2023	48
2	2021-2022	38
3	2020-2021	13
4	2019-2020	15
5	2018-2019	06




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Data of Research Projects Completed (UG students)

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Data of Research Projects Completed (UG students)

(Last 5 years)

A.Y. 2022-2023

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. Atul Phatak	Dipak Deokar Pranjali Inamdar Vaishnavi Magar	Development and evaluation of Eugenol containing antimicrobial formulation
2	Dr. Padmaja Kore	Dnyaneshwar Bemde	Formulation and evaluation of herbal ointment for dermatophytic skin infection
3	Dr. Smita Pimple	Dnyaneshwari Chavan, Rohit Choudhary, Gaurav Karbhari	Formulation and evaluation on In-situ niosomal gel of chloramphenicol
4	Dr. K.S. Shaikh	Kartik Gavali, Vaishnavi Jangam, Rutuja Mane	Preparation and evaluation of rectal dosage forms
5	Dr. U. C. Galgatte	Sanjana Dole, Ruchika Gupta, Manali Majgaonkar	Development of Ritonavir co-crystals
6	Dr. A.R Balap	Harshal Bhakare, Vaishali Chitta Khushboo Choudhary	Formulation, Characterization and Wound Healing Activity of Guar gum Hydrogel loaded with Honey Silver nanoparticles.
7	Dr. Nikita Gaikwad	Kaveri Ganjure, Srishti Jha, Tejaswini Basate	Development and evaluation of antifungal topical cream including clotrimazole and clotrimazole
8	Dr. Padmaja Kore	Devesh Chaudhari Pawan Mare	Formulation and Evaluation of herbal dermal patches for dermatophytic skin infection
9	Dr. Padmaja Kore	Rameshwar Bhalke	Formulation and evaluation of tannin containing chewing gum for mouth ulcer
10	Dr. Anuradha More	Akshay Deo Shraddha Jadhav	Development and characterization of a novel anti-acne Niosomal Gel
11	Dr. Anuradha More	Kaushal Gandhi Nitesh Misal	Formulation, evaluation and comparison of the herbal shampoo with the commercial shampoos
12	Dr. Shailaja. B. Jadhav	Sakshi Kudale, Akshay Kalyan, Vimajji Goradwar	Synthesis of schiff bases of indole-3-carbaldehyde
13	Dr. Minal Harde	Shravani Agalave	Synthesis and characterization of Fe ₃ O ₄ nanoparticles
		Truptee Banakar	Synthesis, characterization and applications of iron oxide nanoparticles.
		Ajay Dhapte	Synthesis and evaluation of Iron oxide nanoparticles



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14	Dr. Pallavi Patil	Rahul Andhale, Shruti Bajare, Sneha Hojage	Develop and validate HPTLC method for determination for Antidepressants drug in bulk form
15	Dr. A.S Tapkir	Tejas Anandkar	"Extraction, Isolation And Evaluation Of Lawsone From Lawsonia Inermis Extract And Marketed Formulation By Hptlc"
		Shivani Dighe	"Extraction, Isolation And Evaluation Of Quinine Sulphate From Extract And Marketed Formulation By Hptlc"
		Harshal Jagtap	"Extraction, Isolation And Evaluation Of Calcium Sennoside From Cassia Angustifolia Extract And Marketed Formulation By Hptlc"
16	Mr. Somdatta Chaudhari	Pooja Chavan	Design, synthesis and evaluation of some NMDA receptor antagonists as anti-alzheimer agents.
		Pratiksha Kondawar	Design, synthesis and evaluation of some GSK-3 beta inhibitors as anti-alzheimer agents.
		Abhishek Maskare	Design, synthesis and evaluation of some MAO-B inhibitors as anti-alzheimer agents.
17	Dr. Deepti. D. Bandawne	Prathamesh Badhe, Bhagirathi Bhale, Sampada Kulkarni	Evaluation of the effect of fructose- Induced NAFLD on Physicochemical Parameters in Rats
18	Dr. S. S. Nipate	Shraddha Ahirrao	To study the effect of Cedrus deodora (Cedar wood) essential oil on wound healing in experimental animals.
19	Dr. S. S. Nipate	Akash Jiwnanai	To study the effect of royal jelly derived from Apis Mellifera and Melaleuca Oil (Tea Tree oil)
20	Dr. S. S. Nipate	Ankush Chavan	Evaluation of wound healing activity of ethanolic extract of saccharum officinarum leaves in experimental animals
21	Dr. M.S Kuchekar	Vanita Bhurkunde, Milind Dyagatwar, Siddhanth Gaikwad	Formulation and Evaluation of Herbal Shampoo
22	Dr. Mohini Kuchekar	Vikas Kurulekar	Formulation and evaluation of herbal lotion
23	Dr K.S. Kakad	Guruprasad Chavan, Anuj Gaikwad	Chemical fingerprinting and antimicrobial activity of selected medicinal herbs and its ayurvedic formulation.
		Hrushikesh Ladkat	A Review on therapeutic potential of Bergenialigulata Wall
24	Dr. Vitthal Chopade	Jayesh Jaiswal, Puskkar Karande Patil, Abhishek More	Formulation and evaluation of herbal syrup and herbal lozenges



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25	Dr. Bhushan Pimple	Ganesh Kudke Rutuja Deshmukh	Formulation and Evaluation of Polyphenolic Tablets
26	Dr. Bhushan Pimple	Pravin Bahir	Preparation and evaluation of herbal hair oil
27	Dr. Bhushan Pimple	Nikhita Kumbhar	Formulation and evaluation of herbal cream for antifungal activity
28	Mr. Shubham Khade	Balu Palekar, Aparna Patil Niranjan Rajput	Synthesis of Magnetic Nanoparticles
29	Mrs. Sheetal Chaudhari	Tejashree Rane, Samarth Shinde, Akash V Wakale	Eco-friendly Method Development and Validation by UV- Visible spectroscopy
30	Mrs. Rupali Jinturkar	Shreenidhi Naik, Priya Shete, Rohit Tapkir	Design, synthesis and Molecular docking of some Tacrine derivatives as AChE Inhibitors.
31	Mrs. Nikita Kale	Niranjan Sonawane Dhanashree Yadav Smita Gaikwad	Formulation and Evaluation of gunja cream
32	Ms. Anita Malsure	Kadambari Shinde Varsha Shinde	Formation and evaluation of polyherbal chewable tablet
		Anjali Raju Wasule	RP-HPLC method development and validation for determination of felbinac
33	Ms. Arti Shingan	Ashish Sakhare, Shirfule Nagesh, Akansha Telang	RP-HPLC method development and validation for determination of felbinac
34	Mrs. Vasudha Bavdekar	More Mayuri, Shinde Utkarsha, Zanwar Mansi	Method development and validation in bulk and pharmaceutical dosage form by HPTLC
35	Mr. D. L. Visokar	Sonali Nengule	Anti-inflammatory analgesic liniment for gouty and osteoarthritis
		Mahesh Pekamwar	Formulation and evaluation of polyherbal Anti-ageing cream
		Kartik Yenkure	Anti-inflammatory analgesic liniment for gouty and osteoarthritis
36	Dr. Sangita Kale	Vasundhara Patil	Polysaccharide Based Drug Delivery For Periodontitis
		Ajinkya Salve	Formulation and evaluation of transdermal patch for wound healing
		Shweta Wagh	Formulation and Evaluation of polyelectrolyte complex Nanoparticles for diabetes
37	Dr. Ujwala Desai	Sarvade Ajinkya	Formulation and evaluation of medicated herbal chewing gum for mouth infections
		Vaishnavi Sonone	Formulation and evaluation of herbal facewash and exfoliating tablet
		Mohini Thite	Formulation and evaluation of terbinafine hydrochloride niosomal nail lacquer



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38	Mr. Shivraj Mane	Shrinath Waghmare, Harshita Waghmode Sarvesh Yeole	Herbal Lotion Formulation
39	Mr. Rohit Gurav	Utkarsha Patil, Nikita Pawar Snehal Shinde	Formulation and Evaluation of Ufosomal Antifungal Gel
40	Mrs. Priyanka Bagade	Ajaykumar Patel, Harshali Sonawane, Vanve Shubham	Formulation and Evaluation of Anti-aging and Anti-acne herbal scrub based face wash
41	Mrs. Alka Bhure	Tanmay Satkar, Ashish Shinde, Raviraj Shinde	Formulation, development and evaluation of diclofenac sodium gel by using HPMC
42	Ms. Surbhi Gupta	Snehal Panhalkar, Yashasvi Patil, Lalit Sargar	Formulation and evaluation of diclofenac sodium nano suspension
43	Dr. Padmaja S. Kore	Shital Susar, Naveed Syed Tupe Samadhan	Evaluation of Anthelmintic activity of herbal extracts
44	Mr. Prashant Pawar	Neha Pandit, Prasanjit Suryawanshi, Pratik Suryawanshi	Assessment of factors associated with breast cancer in Indian women : A questionnaire survey
45	Mrs. Priyanka Sarda	Saurav Pawar, Shraddha Raut, Shweta Sarne	Development and validation of hptlc method for estimation of deferiprone in bulk and marketed formulations
46	Mrs. Snehal Shelke	Nikita Salunke, Priyanka Tandlekar, Ukirde Deven	Assessment of Clinical Profile data and Treatment pattern of GBS.
47	Ms. S. S. Bhosale	Adwait Tole, Madhavi Vikharankar, Rutuja Wayal	Assessment of Knowledge and Awareness about Drug-Food Interactions among General Public in India : A questionnaire survey
48	Mrs. Suvarna A. Vadje	Shivhar Shete, Shraddha Shingade, Waghire Nikhil	Comparative evaluation of herbal lip balms developed using various natural bases.

A. Y. 2021-2022

Sr No	Name of guide	Name of student	Project Title
1.	Dr. Deepti Bandawane	Shinde Shivanjali, Dighe Trupti	To study the effect of biochemical parameters in high fructose diet induced insulin resistance in experimental animals.
2.	Dr. Sonali Nipate	Rutuja Sawkar	Antibacterial activity of leaf extract of Manikara Zapota against bacterial strains of E-Coli, Pseudomonas Aeruginosa, Staphylococcus Aureous.
		Mayuresh Date	Antibacterial activity of Rumex acetosa



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3.	Dr. Padmaja Kore	Abhishek Nemmaniwar, Samiksha Borole	Anti-cataleptic effect of Curcuma Amada ethanolic extract in laboratory animals
4.	Mr. Prashant Pawar	Omkar Suravase, Akshay Supe	Evaluation of anti-asthmatic and antioxidant activity of piper betel leaf.
5.	Ms. Swateja Bhosale	Shivani Harné	Comparative study of In Vitro Thrombolytic Activity of Bougainvillea Spectabilis and Curcuma Longa extract.
6.	Dr. Anjali Kumbhar	Dhanashree Jachak, Vitthal Wadje	To evaluate Self-Management of Diabetes Mellitus Patients.
7.	Dr. Rohini Chavan	Tanvi Sanjay Mande, Swaroopa Jadhav	To study the effectiveness of COVID-19 vaccine.
8.	Dr. Rajni B. Mali	Shaikh Tabassum Siddhi Gaikwad	Evaluation of drug-drug interaction and prescription error in prescription dispensed at community pharmacy.
7.	Dr. Mayuri Khaparde	Maithil Hande, Rushikesh Kale	Assessment of self-medication practice among common people
8.	Mrs. Sangita Kale	Sanchit Phapale, Deepak Taru	Estimation of blood pressure risk from lifestyle factors and different treatment profiles- A case study.
9.	Dr. A.A. Phatak	Ashwini Bansode, Smitesh Kalaskar	Formulation and evaluation of liquid solid system of drug and phytoconstituents.
10.	Dr. Smita Pimple	Pritesh Gahane, Riddhi Sadatputre	Formulation and evaluation of Microemulsion system for Ciprofloxacin
11.	Dr. K. S. Shaikh	Madavi Sanchit, Nalawade Sonali	Utilizing ternary phase diagram for optimization of Ketokonazole loaded self micro Emulsifying Drug Delivery System
12.	Dr. Upendra Galgatte	Yusra Hamdulay, Harsh Mehta	Investigating in-situ gel forming potential of polymers for ocular delivery
13.	Dr. Aishwarya Balap	Mugdha Banduke, Manasi Chimate	Green synthesis of ZnO nanoparticles prepared from using <i>Alternanthera sessilis</i> .
14.	Dr. Nikita M. Gaikwad	Naresh Barwad, Khushboo Gohil	Formulation and evaluation Herbal lip balm.
15.	Dr. Anuradha G. More	Onkar Dhole, Rutuja Giri	Formulation and Evaluation of polyherbal Hand sanitizer.
16.	Dr. Ujwala Desai	Pradeep Choudhary, Bhavesh Borkar	Formulation and evaluation of Venlafaxine nanosponges gel formulation.
17.	Mr. Devendra Visokar	Tejas Khedkar, Mayuri Maskare	Formulation and evaluation of Diclofenac sodium containing anti-inflammatory herbal balm.
18.	Mr. Rohit M. Gurav	Akash Gaikwad, Mansi Sevarkar	Formulation and evaluation of herbal ointment containing <i>Daucus Carota</i> extract.



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19	Ms.Surbhi Gupta	Gulhane Riteeka Dhumal Neha	Formulation and evaluation of neutraceutical tablet using herbal drug by direct compression method.
20	Ms.Nikita. K. Kale	Vaibhavi Suryawanshi	PreparationandEvaluationofHerbaloil.
21	Dr.Bhushan Pimple	Vaishnavi Inde	Extraction&isolationof <i>OriganumMajorana</i> leaves
		Pooja Patil	Isolation and Phytochemicalinvestigationof <i>OriganumMajorana</i> .
22	Dr. Kalyani S. Kakad	Anuja Mohite	PhytochemistryandPharmacologyof <i>WithaniaSomnifera</i> (Solanaceae):Review
		Manish Rokade	Herbal Medicineusedforthemangement of Covid-19: A Review
23	Dr. Mohini Kuchekar	Vaibhav Hage	Pharmacognosticevaluationofcrudedrug
		Pratiksha Raut	Development of HPTLC method for quantification of gallic acid in herbal extract and polyherbal formulation.
24	Dr.Amit Tapkir	Krishnapriya Nalanaglu	Extraction, Identificationandbiologicalevaluationof withanolidesfromdriedfruitofwithaniacoagulans.
		MaleVaibhavi Balaji	Extraction, Identification, and evaluation of anti-microbialpropertyof <i>MoringaOleifera</i> leaves.
25	Mrs. Priyanka Sarda	Kalyani R.Shrivastav, Swati U. Kale	Extractionandevaluationof <i>Trigonellafoenum-graecum</i>
26	Mrs.Suvarna Vadje	Saakshi Khandagale, Sayali Patil	PharmacognosticandPhytochemicalinvestigation of <i>Piperbetle</i> L. stems.
27	Dr.S.B.Jadhav	Prasad Bhongale, Kajal Gatkai	Synthesisof novel Schiff basequinacolinones derivatives.
28	Dr.Vitthal Chopade	Dinesh Patil, Shubham Patil	Design, synthesis and molecular docking ofsomequinoline derivatives as NLRP ₃ inhibitors.
29	Dr.Minal T. Harde	Prashant Lawande	Development and validation of assay method for Gefitinib using HPTLC method.
30	Dr.Pallavi M.Patil	Trupti Khatik Patil	DevelopmentandvalidationofHPTLCmethod for the determination of Naftifine Hydrochloride.
		GaneshSureshShelke	Survey on adverse drug reaction reporting.
31	Mr.Somdatta Chaudhari	Dnyaneshwari Mate, Sunita Ranaware	Design, synthesis and molecular docking ofsomequinoline derivatives as NLRP ₃ inhibitors.
32	Mrs. Rupali Jinturkar	Pranali Shirsat, Shivam Sambre	Development and validation of analytical method



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			forestimationofGlimepirideinbulkdrugandma rketed formulation.
33	Mrs.Sheetal D. Chaudhari	Roshani Gite, Chaitanya Walunjkar	The development and validation of UV- spectrophotometric method for the determination of Rivaroxabanby usinghydrotropy.
34	Mrs.VasudhaBa vadekar	SandhyaThombare	MethoddevelopmentandvalidationforPharmaceut icalBulk drugs and dosage form.
35	Dr. PadmajaKore	Shivanjali Shinde Akash Gaikwad Rutuja Sawkar	AntihistaminicEffectofAzadirachtaindicaLeaves
36	Dr. Padmaja Kore	Smitesh Kalaskar Dinesh Patil Shubham Patil Dhanashri Jachak Swaroop Jadhav	Evaluationofanti- catalepticactivityofXanthiumStrumariumh ydroalcoholicfruitextract
37	Dr. PadmajaKore	Abhishek Nemmaniwar , PratikshaRaut	A case study report on anorectal fistula
38	Dr.KalyaniS.Ka kad	Abhishek Nemmaniwar, Pratiksha Raut, Onkar Dhole	Chemical Profilingofselected Ayurvedic formulation.

A.Y. 2020-2021

Sr. No.	Name of Faculty	Name of Student	Project Title
1	Dr. Anuradha G. More	Ransing Vaishnavi	Determination of potability of various water samples.
2	Dr. Anuradha G. More	Amrita Kulkarni, RuchitaBhor	Formulation and Evaluation of herbal wound healing ointment formulation.
3	Dr.AnuradhaG.M ore	Aarya Karambelkar, Bharati Chaudhary	Formulation and Evaluation of herbal anti-hemorrhoidal ointment formulation.
4	Dr. Nikita M. Gaikwad	Disha Shirke	Characterization of ethyl cellulose matrices containing water soluble drug: Effect of channeling agent and particle size (420µ-850µ) of ethyl Cellulose.
5	Dr. M. T. Harde	Indrani Mahadik	Determination of raloxifene hydrochloride in bulk and in tablets by HPTLC.



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6	Dr. M. T. Harde	Ketan Gaiind	UV-Spectrophotometric method for simultaneous estimation of DapagliflozinPropandiol and Metformin Hydrochloride.
7	Dr. Padmaja Santosh Kore	Amrita Kulkarni, Ruchita Bhor	Evaluation of wound healing activity of herbal formulation.
8	Dr. Padmaja Santosh Kore	Aarya Karambelkar, Bharati Chaudhary	Evaluation of anti-hemorrhoidal activity of herbal formulation.
9	Dr. Padmaja Santosh Kore	Rashmi Tantri	Evaluation of in-vitro anthelmintic potential of various extraxcts of emblica officinalis against pheretimaPosthuma.
10	Dr. Padmaja Santosh Kore	Shrushti Tiwari, Charmine Richardson	Invitrothrombolyticpotentialofhydroalcoholice xtracts of Citrus Limon Leaves, TagetesErectaflowerandMusa AcuminataStem
11	Dr. Padmaja Santosh Kore	Bhor Ruchita Balu. , Kulkarni Amrita Milind	A Review on BioactivePhytoconstituents and Pharmacological Activities of GlycyrrhizaGlabra
12	Dr.MohiniC. Kuchekar	Amrita M. Kulkarni, BhartiJ.Choudhary	PhytochemicalandPharmacologicalStudiesof PterocarpusSantalinus(Fabaceae):AReview
13	Dr.MohiniC. Kuchekar	Aishwarya A Zambare,Disha A Shirke	“PhytochemicalandPharmacologicalstudieson Verbenaofficinalis(Verbenaceae):AReview

A. Y.2019-2020

Sr. No.	Name of Faculty	Name of Student	Project Title
1	Dr. Bhushan P. Pimple	Siddhant Deepak Pawar	Pharmacognostic evaluation of OriganumMajorana
2	Dr. Bhushan P. Pimple	Urvi Vijay Deshpande	Pharmacognostic Evaluation of EnicostemmaAxillare
3	Dr. Ujwala Desai	Sayali SureshPawar	Development and validation of analytical methods for paracetamol by UV spectrophotometric method
4	Dr. Ujwala Desai	Aniket Ratnaparkhi	Formulation and Evaluation of microcrystals formed by controlled crystallization technique.
5	Dr. Mohini Kuchekar	Swapnil Dhobe	Recent advances in schizophrenia therapy



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6	Dr. Mohini Kuchekar	Pooja Suryawanshi	A review on probiotics
7	Dr. Shailaja Jadhav	Vinay Kothari	Impurities in pharmaceuticals
8	Mr. Amit S. Tapkir	Sufiyan Shaikh	Improving medication safety in blind and illiterate people
9	Dr. P. D. Chaudhari	GayatriJadhav	Chronopharmaceutical drug delivery system for asthma.
10	Dr. Pallavi Patil	Akshay Mahajan	A review on high performance of thin chromatography
11	Dr. Atul A. Phatak	AkshayYeole	A comparative study of capsule shell material
12	Dr. Bhushan P. Pimple	Aniket Mekhe., Ajay Joshi, Suraj Malwadkar.	Formulation and Evaluation of Lipsticks from the Dyes Of Root Barks of Alkanatinctoria
13	Dr. Minal T. Harde	Aniket Mekhe, Sneha R. Shinde, Pragati D. More, Snehal S. Shirude	Validated inherent stability-indicating HPLC-DAD method for simultaneous determination of Pamabrom and Paracetamol in marketed formulation
14	Dr. Minal T. Harde	Aniket R. Mehke, Ajay. A. Joshi, Snehal R. Shinde	Surface Engineered New Approach for Mesoporous Alumina and Nanoparticles - A Review
15	Dr. Minal T. Harde	Neha K. Kakade, Laxmi R. Chaudhary, Snehal V. Gosavi	ICH Guideline in Practice: Validated Inherent Stability-Indicating HPLC-Dad Method for Simultaneous Determination of Eperisone Hydrochloride and Diclofenac Sodium in Marketed Formulation

A. Y. 2018-2019

Sr. No	Name of Faculty	Name of Student	Project Title
1.	Dr. V. V. Chopade	Mugdha Banduke	Isolation of Berberine by flash chromatography
2.	Dr. K. S. Kakad	Radhika Chaudhary	Pharmacognostic and phytochemical investigation of plant of Acanthaceae family
3.	Mr. U. G.	Ajay Joshi	Effect of pH and Temperature on gelation of



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	Galgatte		pectin
4.	Dr. P. S. Kore	Roshani Bhole, Vaibhav Gaikwad	Evaluation of <i>in-vitro</i> anthelmintic potential of Umbelliferone against pheretimaposthuma
5.	Dr. P. S. Kore	Aarti Peste, Amarjeet Virk	Evaluation of <i>in-vitro</i> anthelmintic potential of Quercetin against pheretimaposthuma
6.	Dr. K.S. Kakad	Savita Chaudhary	Pharmacognostical and phytochemical evaluation of leaves of <i>Calotropis gigantean</i> (fam. Apocynaceae)




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Sample for Research Projects Completed (UG students)

**FORMULATION AND EVALUATION OF
MEDICATED HERBAL CHEWING GUM FOR
MOUTH INFECTION**

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



By
Mr. AJINKYA ANIL SARVADE

For the award of degree
**BACHELOR OF
PHARMACY**

UNDER THE GUIDANCE OF

Dr. U. S. Desai (M. Pharm, PhD)
Assistant professor
(Dept. of pharmaceutics)
DEPARTMENT OF PHARMACEUTICS

**PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE
OF PHARMACY, NIGDI, PUNE - 44.
(ACCREDITED BY NAAC)
(2022 – 2023)**




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Sector No 21, Yamunanagar, India



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I Mr. Ajinkya Anil Sarvade declare that the thesis entitled, "Formulation and evaluation of medicated herbal chewing gum for mouth infection, submitted by me for degree of 'Bachelor of Pharmacy' is the record of work carried out by me under the guidance of Dr. U.S. Desai and has not formed the basis for the award of any degree or Diploma or Other titles in this or any other University.

Date: 3/6/23

Place: Nigdi, Pune


Mr. Ajinkya Sarvade




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CERTIFICATE BY THE GUIDE

This is to certify that the thesis entitled, "Formulation and evaluation of medicated herbal chewing gum for mouth infection" submitted for degree of Bachelor of Pharmacy, is the record of research work carried out by her under my guidance and supervision and that this has not formed the basis for the award of any degree or diploma or other titles in this or any other University.

Date: 3/6/23

Place: Nigdi, Pune

Desai

Dr. U. S. Desai
(M. Pharm, PhD)
Research Guide



[Signature]
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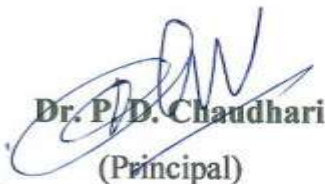
ENDORSEMENT BY THE PRINCIPAL

This is to certify that the thesis entitled, "Formulation and evaluation of medicated herbal chewing gum for mouth infection" is a record of bonafide research work carried out by Mr. Ajinkya Anil Sarvade under the guidance of Dr. U. S. Desai at Modern College of Pharmacy, Nigdi, Pune - 411044.

Date: 3/6/23

Place: pune




Dr. P. D. Chaudhari
(Principal)

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Summary of Research Completed by Students-PG Data



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Summary of Research Project Completed- PG Data

(Last 5 years)

Sr. No.	Years	No of Projects
1	2022-2023	60
2	2021-2022	39
3	2020-2021	36
4	2019-2020	35
5	2018-2019	34




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Data of Research Projects Completed (PG students)



Data of Research Projects Completed (PG students)


Pharmacology

(Last 5 years)

A.Y. 2022-2023

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. S. S. Nipte	Akansha Amritkar	Evaluation of Gel of <i>Carica papaya</i> Latex And <i>Boerhavia diffusa</i> Linn. for wound healing activity in experimental animals
2	Dr. D. D. Bandawane	Pranali Bhandare	Evaluation of nephroprotective potential of Ethyl acetate fraction of <i>Punica granatum</i> leaves in 5-fluorouracil induced nephrotoxicity in experimental animals.
3	Dr. S. S. Nipte	Abhijit Deshmukh	Evaluation of Anti-hemorrhoidal Activity of ointment formulation prepared from ethanolic extract of <i>Tagetes Erecta</i> flower in croton oil induced hemorrhoids in experimental animal.
4	Dr. D. D. Bandawane	Gayatri Gadekar	Evaluation of nephroprotective potential of ethyl acetate fraction of <i>acacia catechu</i> leaves in 5-fluorouracil induced nephrotoxicity in experimental animals.
5	Dr. S. S. Nipte	Vinod Gaikwad	Evaluation of electric stimulation in wound healing activity using hydrogel containing Arginine and Proanthocyanidin in experimental animals.
6	Dr. S. S. Nipte	Pratiksha Hajare	To study anti-atherosclerotic activity of ethanolic extracts of <i>Peltophorum pterocarpum</i> Linn. stem bark and <i>syzygium cumini</i> DC leaves in experimental animals
7	Dr. S. S. Nipate	Dhanashri Katkar	Evaluation of anti-arthritis activity of ethyl acetate fraction of <i>Tectona grandis</i> Linn. Seeds in FCA-induced arthritis in experimental animals.
8	Dr S. S. Nipte Co	Pradnya Khelbude	Evaluation of anti-hemorrhoidal activity of ointment formulation prepared from ethanolic extract of <i>Punica granatum</i> peels in croton oil induced hemorrhoids in experimental animals.
9	Dr. D. D. Bandawane	Mohsin Mansoori	Ameliorative effect of <i>Abutilon indicum</i> leaves on liver steatosis in high fructose induced insulin resistance in experimental animals.
10	Dr. S. S. Nipate	Kajal Pawade	Evaluation of ethyl acetate fraction of <i>Dendrophthoe Falcata</i> Linn. Leaves on the FCA-induced arthritis using Exosomes as drug carrier in experimental animals.




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11	Dr. D. D. Bandawane	Nikita Pawar	Pharmacological evaluation of <i>Aegle marmelos</i> leaves on NAFLD in high fructose-induced insulin resistance in experimental animals.
12	Dr. D. D. Bandawane	Ganesh Pore	Evaluation of hydroethanolic extract of <i>Musa paradisiaca</i> Linn. Peel on suicide and trait related behaviors in experimental animals.
13	Dr. D. D. Bandawane	Surabhi Shinde	Evaluation of hydroethanolic extract of <i>Tagetes Erecta</i> flowers on suicide and trait related behaviors in experimental rats.
14	Dr. D. D. Bandawane	Prajakta Tambe	Evaluation of hydroethanolic extract of <i>Portulaca oleracea</i> leaves on suicide and traits related behaviors in wistar rats

A.Y. 2021-2022

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. D. D. Bandawane	Pooja Ingole	Evaluation of protective effect of hydroalcoholic extract of <i>Cassia auriculata</i> leaves on high fructose induced insulin resistance in experimental animals
2	Dr. D. D. Bandawane	Ashwini Kotkar	Protective effect of hydroalcoholic extract of <i>Punica granatum</i> leaves on high fructose induced insulin resistance in experimental animals
3	Dr. S. S. Nipate	Ritu Mahale	Evaluation of wound healing activity of ethanolic extract of <i>Rumex acetosa</i> on experimental animals
4	Dr. S. S. Nipate	Snehal Kotwal	Evaluation of wound healing activity of ethanolic extract of <i>Manilkara zapota</i> on experimental animals
5	Dr. P. S. Kore	Ashwini Navale	Cardioprotective effect of crude extract and solvent fractions of <i>Brassica cretica</i> leaves and floral extract on cyclophosphamide induced myocardial injury in rats
6	Dr. S. S. Nipate	Omkar Kalsait	Effect of ethanolic extract of <i>Adhatoda vasica</i> leaves on potassium oxonate induced gut




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A.Y. 2020-2021

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. S. S. Nipate	Nilesh Choudhary	Evaluation of neuroprotective activity of <i>Delonix regia</i> leaves in haloperidol induced parkinsonism in experimental animals
2	Dr. D. D. Bandawane	Prachi Gholve	Effect of <i>Murrayakoenigii</i> leaves on high fat high fructose induced insulin resistance and liver impairment in experimental animals
3	Dr. S. S. Nipate	Rajnigandha Jori	Evaluation of anti-urolithiatic activity of ethanolic extract of <i>Delonix regia</i> leaves in experimental animal
4	Dr. D. D. Bandawane	Priyanka Karad	Effect of <i>Annona squamosa</i> leaves on high fructose induced insulin resistance and renal impairment in experimental animals
5	Dr. S. S. Nipate	Aishwarya Mandhare	Evaluation of anti-atherosclerosis activity of aqueous extract of <i>Pisum sativum</i> seed extract in experimental animals

A.Y. 2019-2020

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. D.D. Bandawane	Ghodke Shweta	Investigation of antidepressant & antianxiety activity of hydroalcoholic peel extract of <i>Musa Paradisiacalinn</i> .
2	Dr. D.D. Bandawane	Makeshwar Shraddha	Study of hydroalcoholic extract of <i>Moringaolifera</i> leaves on fructose induced non-alcoholic fatty liver disease in rats.
3	Dr. D.D. Bandawane	Satav Varsha	Study of hydroalcoholic extract of <i>Alstoniascholaris</i> leaves on fructose induced hepatic insulin resistance in rats.
4	Dr. D. D. Bandawane	Thorat Pradnya	Beneficiary effect of Syringic acid on kidney and liver impairments in high-fat-high-fructose diet induced metabolic syndrome rat model.
5	Dr. S. S. Nipate	Waghmare Chaitali	Evaluation of antiurolithiatic activity of flavanoid rich fraction of <i>Sesbania grandiflora</i> leaves in experimental animals.
6	Dr. S. S. Nipate	Kandage Vikrant	Study of antigout potential of <i>Dolichos biflorus</i> Linn seeds extract against potassium oxonate induced gout model in experimental animals.




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7	Dr. S. S. Nipate	Koradkar Krushna	Evaluation of antiatherosclerotic activity of ethyl acetate fraction of stem extract of <i>Tinosporacardifolia</i> in experimental animals.
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A.Y. 2018-2019

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. D.D. Bandawane	Nehre Reshma B.	Evaluation of bacoside based standardized extract of <i>Bacopa monnieri</i> on suicide and trait related behaviour in laboratory animals.
2	Dr.S.S. Nipate	Londhe Mangesh M.	Evaluation of antiatherosclerotic activity of ethyl acetate fraction of leaves extract of <i>Seshamia grandiflora</i> on experimental rats.
3	Dr. S.S. Nipate	Rai Vaishali	Evaluation of antiarthritic activity of ethyl acetate fraction of stem bark extract of <i>Pinus roxburgii</i> sergeant on experimental rats.
4	Dr. S.S. Nipate	Mishra Subhash	Effect of Lawsone on high fat high fructose diet induced liver impairment in experimental animals.
5	Dr. D.D. Bandawane	Thorat Pradnya J.	Evaluation of nephroprotective activity of syringic acid in experimentally induced metabolic syndrome in rats.
6	Dr. D. D. Bandawane	Khangate Niranjana M.	Study of indigenous plant for anti-hyperlipidemic activity.




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Data of Research Projects Completed (PG students)

Pharmaceutics

(Last 5 years)

A.Y. 2022-2023

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. A. A. Phatak	Akhote Ashwini	Formulation and evaluation of herbal anti-oxidant for chronic disease treatment
2	Dr. N. M. Gaikwad	Biradar Shilpa	Formulation and evaluation of Dual drug loaded polymeric mixed micelles for anti-diabetic treatment.
3	Dr. K. S. Shaikh	Birajdar Akshada	Formulation and evaluation of dosage form of drug based on hot metal extrusion process
4	Dr. U. C. Galgatte	Borbanne Mayuri	Crystal Engineering: Development of Pharmaceutical crystal of Ritonavir.
5	Dr. S. S. Pimple	Garhwani Yogish	Formulation and evaluation of Rilpivirine loaded solid lipid nanoparticles (SLN)
6	Dr. A. G. More	Godhbarle Amrut	Formulation and evaluation of directly compressed polyherbal antelmintic tablet.
7	Dr. U. C. Galgatte	Khorde Rushikesh	Crystal Engineering: Co-Crystallization approach for Ritonavir to improve solubility.
8	Dr. A. G. More	Mahangade Aishwarya	Formulation and evaluation of wound healing Spray with calcium phosphate nanoparticles
9	Dr. S. S. Pimple	Mahajan Gaurav	Some Studies on exploring potential of zeolites as a drug delivery carrier
10	Dr. A. A. Phatak	Maske Rutuja	Formulation and evaluation of Co-Crystals of Efavirenz
11	Dr. S. S. Pimple	Phalke Tushar	Formulation and Characterization of fast dissolving oral film of prochlorperazine maleate
12	Dr. N. M. Gaikwad	Pote Priyanka	Formulation and evaluation of dual drug loaded polymeric mixed micelles for Anti-epileptic treatment
13	Dr. U. S. Desai	Tidke Yashoda	Formulation and evaluation of Etoricoxib self-micro emulsifying mouth dissolving films (SMMDF) for periodontal diseases
14	Dr. A. A. Phatak	Wable Apurva	Formulation development and evaluation of Darifenacin Hydrobromide nanoemulsion
15	Dr. U. S. Desai	Wani Darshana	Development and Evaluation of Selenium and Climbazole nanoparticle laden Hydrogel for Seboreic Dermatitis / Seborrheic Dermatitis
16	Dr. K. S. Shaikh	Wankhede Shefali	Formulation and evaluation of liquid suppository Dosage form



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Criteria 2: Teaching- Learning and Evaluation



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A.Y. 2021-2022

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. A. A. Phatak	Alka R. Bhure	Formulation development & Evaluation of Bicalutamide Nanosuspension
2	Dr. S. S. Pimple	Tejmal V. Bansude	Formulation & characterization of nanosuspension drug Delivery system of nanosuspension
3	Dr. A. A. Phatak	Sharadha R. Lakambare	Formulation development and evaluation of Empagliflozine film coated tablet using Quality by design approach
4	Dr. U. C. Galgatte	Snehal S. Shirude	Enhancing solubility by the approach of co-crystallization
5	Dr. A. A. Phatak	Giri Akshay Jalinder	Formulation development and evaluation of sertraline HCL loaded liposphere
6	Nikita Gaikwad / D. L. Visokar	Shaikh Tabassm Khaju	Formulation & evaluation of micronutrient transdermal patch as a potential nutrient Supplement
7	Dr. S. S. Pimple	Gujar Anuja Jaykumar	Development & characterization of ocular niosomal In-situ.
8	Dr. S. S. Pimple	Kshirsagar Pratiksha U	Formulation & evaluation of essential oils infused micro-gel & micro - lotion
9	Dr. U. C. Galgatte	Dhone Yogita Shivaji	Design & develop an in situ ophthalmic gel for ocular drug system
10	Dr. U. C. Galgatte	kolsure Shruti ramesh	Design of cubosome based nasal drug delivery system
11	Dr. K. S. Shaikh	Hase Akshay Popat	Formulation development and in vitro evaluation of anticancer film coated tablet
12	Dr. K. S. Shaikh	Bhadange Sanket	Enhancement of solubility of Azithromycin by using novel solubilizer sepirolapm 4000
13	Dr. A. G. More	Shinde Sneha R	Design and development of sertaconazole nitrate loaded silver nanoparticles vaginal mucoadhesive tablet for candidial vaginitis
14	Dr. K. S. Shaikh	Sampada Netne	Formulation and evaluation of fast dissolving tablets of Aceclofenac by using Nicotinamide as a hydrotropic solubilization technique
15	Dr. U. S. Desai	Mayuresh Jadhav	Formulation and evaluation of Terbinafine HCL. invasomal gel for Topical Drug Delivery
16	Dr. P. D. Chaudhari / Nikita Gaikwad	Mayur Khandagale	Formulation and evaluation of drops for intranasal drug delivery system




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A.Y. 2020-2021

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. P. D. Choudhari	Aishwarya S. Gosavi	Development of Resveratrol-Piperine Nanoparticles based gel formulation for muscle relaxation
2	N. M. Gaikwad	Abhijeet K. Thorat	Development and evaluation of Poloxamer/TPGS 1000 loaded mixed polymeric micelles of Sorafenib Tosylate for hepatocellular carcinoma
3	Dr. S. S. Pimple	Nishigandha S. Nigade	Formulation and evaluation of fast dissolving tablets of Raltegravir Potassium
4	Dr. A. A. Phatak	Pravin T. Lanjile	Development and evaluation of herbal formulation
5	Dr. S. S. Pimple	Harshada B. Varpe	Formulation and evaluation of Rilpivirine HCl loaded liposomes
6	Dr. K. S. Shaikh	Shubham S. Choudante	Formulation and evaluation of colon targeted tablets
7	Dr. S. S. Pimple	Prashant Bhoir	Formulation and evaluation of Tranexamic acid emulgel for topical use
8	Dr. U. S. Desai	Rahul Dighe	Formulation and evaluation of folic acid and PEG loaded iron oxide nanoparticles by green synthesis
9	Dr. U. C. Galgatte	Ranjit S. Mutthe	Formulation development and evaluation of Topiramate loaded cubosomal nasal gel
10	Dr. A. G. More	Akshay V. Giri	Preparation & characterization of herbal Uncaria tomentosa aqueous extract loaded anti-inflammetry topic nanoemulgel
11	Dr. A. G. More	Hrushikesh S. Sonsale	development & Characterization of lipidic nano-cochleate for topical delivery of itraconazole
12	Dr. K. S. Shaikh	Shubham R. Pawar	Formulation & characterization of compressed Antiseptic wipe
13	Dr. P. D. Chaudhari	Shubham S. Somavanshi	Formulation & Evaluation of Folic acid & PEG loaded iron oxide nanoparticle
14	Dr. U. C. Galgatte	Vrushali G. Bejgamwar	Formulation development & evaluation of Voriconazole loaded cubosomal ocular gel
15	Dr. A. A. Phatak	Surbhi C. Gupta	Development & evaluation of nanocarrier for alpha-Tocopherol a Phytoconstituent & formulating in to Tablet Dosage form
16	Dr. A. A. Phatak	Radhika R. Baheti	Development & Evaluation of Herbal Face Formulation



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A.Y. 2019-2020

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. A. G. More	Manorama M. Yadav	Development and Characterization of herbal self nanoemulsifying drug delivery system for the Urinary tract Infection.
2	Dr. A. A. Pathak	Kajal K. Darje	Formulation, development and Evaluation of Herbal Based Nanoemulsion
3	Dr. P. D. Chaudhari	Ankiket A. Kadam	Development and Evaluation of Bilayer Table of Metronidazole and Lactobacillus Casei for Antidiarrheal and Gut wall Maintenance Effect.
4	A. G. Purohit	Bhakti G. Dalvi	Formulation , development and Evaluation of Iron Oxide Nanoparticals
5	Dr. A. A. Pathak	Arun S. Mahajan	Development and Evaluation of Antiulser Herbal Insitu Gel for Formulation
6	Dr. U. C. Galgatte	Devika E. Lomate	Development and Evaluation of Nanosponges Based Gel for Topical Delivery Of Antifungal Drug
7	Dr. U. C. Galgatte	Mayuri H. Tapkir	Design and Evaluation of Sorafenib tosylate nanogel formulation.
8	Dr. S. S. Pimple	Priyanka D. Tambe	Formulation and Evaluation of Vitex Negundo Nanoemulgel for Topical Delivery.
9	Dr. S. S. Pimple	Gangasagar U. Swami	Formulation and Evaluation of Microemulsion –based hydrogel for Topical Delivery of Fluconazole and Clotrimazole
10	A.G. Purohit	Pallvi P. Jople	Formulation , development and Evaluation of Iron Oxide Nanoparticles By using Pomegranate Peel Extract
11	Dr. A. G. More	Rakshita M. Chaudhari	Formulation and Evaluation of glibenclamide oral dispersible table by using Solid Dispersion Technique
12	Dr. A. A. Pathak	Ashwini D. Adwant	Formulation and Evaluation of In-situ Gel for Nasal Drug Delivery System
13	Dr. K.S. Shaikh	Mallinath P. Rathod	Preparation and characterization of a Cochleate Drug Delivery System
14	Dr. K.S. Shaikh	Bajirao G. Morale	Preparation and characterization of Hyaluronic acid Based Drug Delivery system




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A.Y. 2018-2019

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. P. Uttekar	Patel Tejal K.	Formulation & Evaluation Mefanamic acid emulgel for Topical Delivery
2	Dr. P. Uttekar	Sonawane Aman R.	Formulation & Development of Doxorubicin Loaded Micellar Drug Delivery
3	Dr. U. C. Galgatte	Bhondwe Dipali U.	Formulation & Evaluation of Nanogel of Sorafenib Tosylate for Hepatocellular carcinoma
4	Dr. U. C. Galgatte	Patil Mayur S.	Development and Evaluation nanostructure Lipid Carrier based gel for Topical delivery of anti fungal drug
5	A. G. More	Potbhare Parag R.	Development and Evaluation of Solid cell nano emulsifying delivery of anti malarial drug
6	A. G. Purogit	Khede Swati H.	Development of magnetic nanoparticle for Arthritis
7	Dr. A. A. Phatak	Supe Sushmita S.	Formulation Development & Evaluation of Prolong release tablet of Anti epileptic drug
8	Dr. S. S. Pimple	Ghadge Shraddha R.	Formulation Development & Evaluation of Fast dissolving tablet of Telmisartan by QBD Approach
9	Dr. S. S. Pimple	Debgunde Nagesh V.	Formulation Development & Evaluation of Niosomes for Anti psychotic drug
10	Dr. K. S. Shaikh	Sawant Mayuri A.	Development and Evaluation of Aq-injectable suspension of anti inflammatory glucocorticoid molecule
11	Dr. K. S. Shaikh	Shinde Sayli D.	Development & Evaluation of Multiple Unit system tablet for BCS class-I drug
12	Dr. P. D. Choudhari	Gaikwad Komal P.	Formulation & Evaluation of Stiripentol powder for oral suspension
13	Dr. P. D. Choudhari	Tayade Samiksha P.	Formulation & Evaluation of Locasamide mouth dissolving tablets.



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Data of Research Projects Completed (PG students)

Quality Assurance

(Last 5 years)

A.Y. 2022-2023

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. Pallavi Patil	Agarkar Samiksha Surendra	Identification and Characterization of D- Limonene and Rosmarinic acid by HPTLC Analysis of Black caraway oil with antioxidant and antibacterial activities.
2	Dr. A. S. Tapkir	Auti Mayuri Kashinath	Formulation and characterization of microcapsulated neem and castor oil in anti-aging cream
3	Dr. A. R. Balap	Bambale Prerana Ganesh	A comparative study of green synthesis, characterization and Anti-microbial activity of ZnO, Cu and AgNO ₃ Nanoparticles of sunflower honey.
4	Dr. B. P. Pimple	Chattar Harshada Jitendra	Development of Polyherbal Anti-Dandruff Hair Shampoos
5	Dr. K. S. Shaikh	Chaudhari Shivam Anil	Development & Validation of High Performance Thin Layer chromatography method for estimation of Pioglitazone in bulk & marketed formulation by Green Approach.
6	Dr. A. S. Tapkir	Gholap Abhijit Balasahyeb	Formulation and evaluation of antiaging ointment containing micro capsulated turmeric and Jojoba oil.
7	Dr. Pallavi Patil	Humnabadkar Shubham Chandrakant	Analytical quality by design (QBD) approach for Development and validation of HPLC method for lopinavir: Application to Hydrolytic, Thermal, Oxidative and Photolytic Degradation Kinetics
8	Dr. Minal Harde	Jadhav Sidheshwar Lobhaji	Design and synthesis of surface engineered mesoporous nanoparticles for assessment of anticancer activity of capacitabine
9	Ms. V. S. Bavadekar	Jagtap Kedar Abhay	RP-HPLC Method Development & Validation of bulk & Pharmaceutical Dosage form
10	Dr. M. C. Kuchekar	Kharate Vrushali Dattatraya	Development of validated Stability indicating HPTLC Method for estimation of Febuxostat in bulk and Tablet dosage form by QBD approach.
11	Dr. K. S. Kakad	Nikalje Rushikesh Nitin	GC-MS and HPTLC Analysis of Hibiscus sabdariffa Linn. and its antimicrobial activity with formulated nanoparticles
12	Dr. Minal Harde	Patil Ankkita Pradeep	Design & Synthesis of fluorescent carbon dots and their applications.



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13	Dr. K. S. Shaikh	Salunkhe Manisha Sanjay	Green Chemistry Approach to Analytical method development & Validation For estimation of Telmisartan by using Ultraviolet spectrophotometric & High Performance Thin Layer Chromatography
14	Dr. A. R. Balap	Suryawanshi Pratiksha Mahade	Design, formulation and evaluation of polyherbal gel Formulation from Honey & Catharanthus-roseus flowers extracts for its wound Healing Activity.
15	Dr V.V Chopade	Thete Dipali Sanjay	Identification and Quantification of potential genotoxic impurities from Rilpivirine Hydrochloride By Chromatographic Technique
16	Dr V.V Chopade	Wadgave Pooja Bandappa	Quantification and validation of sildenafil in bulk and dosage form by High performance thin layer chromatography, High performance liquid chromatography and UV Spectroscopy by using Hydrotropic Agents

A.Y. 2021-2022

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. A. A. Phatak	Praticsha Chede	Formulation and evaluation of perphenazine - caffeine co-crystal
2	Dr. U. C. Galgatte	Gauri Shevade	Design and evaluation of an in-situ gel for ophthalmic delivery of an antibiotic
3	Dr. A. A. Phatak	Yashashri Holambe	Formulation and evaluation of mosapride citrate dehydrate nanoemulsion.
4	Dr. B. P. Pimple	Mayuresh Takawale	Isolation and characterization of bio active principles from origanum mojarana
5	Dr. A. R. Balap	Suraj Satpute	Design, formulation and evaluation of polyherbal gel formulation containing azadirachta indica A. juss and tridax procumbens L. extract for it's wound healing activity.
6	Dr. P. M. Patil	Mayur Takade	Study of molnupiravir impurity profile and validation of stability indicating HPTLC method for determining related substance in molnupiravir drug.
7	Dr. K. S. Kakad	Sarange Badake	HPTLC method development and validation for determination of remogliflozine etabonate and viladagliptin in bulk and its tablet formulation.
8	Dr. A. S. Tapkir	Vishal Ghune	QbD driven method development and validation of favipiravir by Rp-HPTLC
9	Dr. V. V. Chopade	Mayuri Kahate	To identification , separation and quantification of impurities from selected API



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10	Dr. V. V. Chopade	Sneha Dhonde	Analytical Method development validation and stability indicating assay by HPTLC Method for determination of capsaicin
11	Dr. S. S. Pimple	Ketan Korde	Formulation development and In-vitro evaluation of immediate released anti-neoplastic capsules

A.Y. 2020-2021

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. A. S. Tapkir	Harshal Loharkar	Analytical method validation stability indicating HPLC method for related substances of spironolactone
2	Dr. B. P. Pimple	Pratibha Arote	development and investigation of organum majorana extract and piperine based nanoparticulate formulation
3	Dr. K. S. Shaikh	Shraddha Mali	Formulation of Hesperidins Cochleate drug delivery & in silico docking of hesperidins against breast cancer receptor
4	Dr. U. C. Galgatte	Rekha Kolape	Design of luliconazole nanoemulgel for topical delivery
5	Dr. A.G. More	Shraddha Satakar	Preparation & Characterization of herbal nanoemulgel for topical drug delivery box behnken design approach
6	Dr. S. S. Pimple	Tejal Dodal	Formulation & evaluation of buccal film coating nisoldipine loaded nanoparticle
7	Dr. P. M. Patil	Shubham Khade	Molecular docking for antiviral compound against SARS-Co V-2 A computational study
8	Dr. V.V. Chopade	Kamlesh Mankauskar	Stability improvements of sugarcane juice by using natural preservatives with their qualification of sucrose , fructose & glucose by using HPTLC method
9	Dr. V.V. Chopade	Shubham Gagare	Impurity profiling & characterization of studies of remdesivir (API)& to develop & validate stability indicating study method for remdesivir using HPTLC method

A.Y. 2019-2020

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. P. M. Patil	Bhagyashree Sarangkar	Development of stability indicating Assay method using HPTLC For determination of bilastine in bulk and tablet dosage form and characterization of degradant by LC - MS



[Signature]
Principal
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Pune - 411 044.



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2	Dr. V.V. Chopade	Diksha Kamble	Application of Green Silver of Nanoparticles synthesized using leaves extract of tridax procumbens for preparation of clinical anti microbial bandage
3	Dr. M. T. Harde	Vaibhav Raut	Synthesis of mesoporous alumina and its application for controlled drug delivery of anticancer drug
4	Dr. M. T. Harde	Jalinder Bhutekar	Synthesis of mesoporous allumina and its application for controlled drug delivery of anticancer drug
5	Dr. M. T. Harde	Monica Patil	Synthesis of Highly Luminescent carbon quantum dots from natural recourses
6	Dr. V.V. Chopade	Shrilekha Chavan	Implementation of Quality by design (QBD) approach to develop an validation of HPTLC method for robustness determination of Silybin in bulk and silymarin extract by HPTLC method
7	Dr. A. R. Balap	Shushant Ahire	HPTLC method development and validation of Remogliflozin etabonate in bulk and marketed formulation.
8	Dr. A. S. Tapkir	Nikhil Gabhale	Analytical method development and validation for stability indicating HPTLC method for assay of Luliconazole in bulk and dosage form
9	Dr. A. S. Tapkir	Kashid Balasaheb	Analytical method development and validation for Stability indicating HPTLC method for assay of stiripentol in bulk and dosage form

A.Y. 2018-2019

Sr. No.	Project Guide	Students Names	Final Project Titles
1	Dr. P. N. Sable	Pooja Newale	Stability indicating assay method and stress degradation study of adapalene by HPTLC method and characterization of degradation product by LC - MS Method
2	Dr. A. S. Tapkir	Sayli Damgude	Development and validation of RP-HPTC method for determination of Scopolatine and myristicin in bulk and dosage form.
3	Dr. P. M. Patil	Shivani Kalokhe	Qualification of methocarbamol and its impurities present in Pharmaceutical dosage forms by stability - indicating HPLC method
4	Dr. V.V. Chopade	Akshay Gaikwad	Solubility in enhancement of glibenclamide by hot melt extrusion Technique
5	Dr. M. T. Harde	Bhanuprasad Sonawane	Development and validation of stability indicating assay method for determination of azelastine HCL and fluticasone furoate drug in bulk and marketed formulation by Chromatographic technique




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6	Dr. M. T. Harde	Poonam Raskar	Novel stability indicating HPLC method for determination of related substances present in extrude base posaconazole DR Tablet
7	Dr. A. R. Balap	Rushikesh Chandgude	Development and validation of stability indicating assay method of allopurinol and its marketed formulation by HPTLC method
8	Dr. S. B. Jadhav	Saroja Adepawar	Development of stability indicating assay method using HPTLC for determination of sorafenib tosylate in bulk and tablet dosage form and characterization of degradant by LC-MS
9	Dr. M. T. Harde	Mayuri Gadekar	Development of stability indicating assay method using HPTLC for determination of dipyridamole and aspirin in bulk and marketed formulation by using chromatographic method
10	Dr. P. M. Patil	Sneha Kasbe	Isolation and characterization of cappariz zeylanica Plant extract
11	Dr. V.V. Chopade	Bhavesh Choudhary	Formulation and development of self micro emulsifying drug delivery system for silymarin
12	Dr. S. B. Jadhav	Manish Naikare	Development and validation of stability indicating assay method of nitrofurantoin and its marketed formulation by HPTLC and characterization of degradation product by LC -MS




(Signature)
Principal
P. E. S. Modern College of Pharmacy
Sector No. 21, Yamunanagar, Nigdi,
Pune - 411 044.



Sample for Research Projects Completed (PG students)

**A COMPARATIVE STUDY OF GREEN SYNTHESIS,
CHARACTERIZATION AND ANTI-MICROBIAL
ACTIVITY OF ZnO, Cu AND AgNO₃,
NANOPARTICLES OF SUNFLOWER HONEY**

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



**By
Ms. Prerana Ganesh Bambale
(M. Pharm.)**

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

**Under the Guidance of
Dr. A.R. BALAP
(M. Pharm. PhD)
Associate Professor
(Dept. of Pharmaceutical Chemistry)**

**DEPARTMENT OF PHARMACEUTICAL QUALITY
ASSURANCE
PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF
PHARMACY, NIGDI, PUNE-44 (2022-23)**




Principal

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



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION

I am **Ms. PRERANA GANESH BAMBALE** declare that the thesis entitled "A COMPARATIVE STUDY OF GREEN SYNTHESIS, CHARACTERIZATION AND ANTI-MICROBIAL ACTIVITY OF ZnO, Cu AND AgNO₃, NANOPARTICLES OF SUNFLOWER HONEY" submitted by me for degree of Master of Pharmacy is the record of work carried out by me under the guidance of **DR. A.R. BALAP** has not formed the basis for the award of any degree or diploma or other titles in this or any other university/organization

Date:

15/6/2023

P.G. Bambale

Ms. PRERANA GANESH BAMBALE

Place: Pune





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



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

DR. A. R. BALAP
Associate Professor,
Department of Pharmaceutical Chemistry,
P.E.S. Modern College of Pharmacy,
Nigdi, Pune- 44.


CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled, "A COMPARATIVE STUDY OF GREEN SYNTHESIS, CHARACTERIZATION AND ANTI-MICROBIAL ACTIVITY OF ZnO, Cu AND AgNO₃, NANOPARTICLES OF SUNFLOWER HONEY", submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **Ms. PRERANA GANESH BAMBALE** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 15/06/2023
Place: Pune


Dr. A.R. BALAP
Research Guide




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



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

DR. KARIMUNNISA S. SHAIKH
Head of Department,
(PHARMACEUTICAL QUALITY ASSURANCE)
P.E.S. Modern College of Pharmacy,
Yamuna Nagar, Nigdi, Pune- 44

CERTIFICATE BY THE HOD

This is to certify that the research work presented in this thesis entitled, **"A COMPARATIVE STUDY OF GREEN SYNTHESIS, CHARACTERIZATION AND ANTI-MICROBIAL ACTIVITY OF ZnO, Cu AND AgNO₃, NANOPARTICLES OF SUNFLOWER HONEY"** submitted for degree of Master of Pharmacy (Pharmaceutical Quality Assurance), is the record of research work carried out by **Ms. PRERANA GANESH BAMBALÉ** under the guidance and supervision of **Dr. A.R. BALP.** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 15/0/2023
Place: Pune


Dr. Karimunnisa S. Shaikh
HOD




Principal

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Pune - 411 044.



**PES's MODERN COLLEGE OF PHARMACY NIGDI, PUNE- 44
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DR. P. D. CHAUDHARI

Principal,

P.E.S. Modern College of Pharmacy,

Yamuna Nagar, Nigdi, Pune- 44

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, **"A COMPARATIVE STUDY OF GREEN SYNTHESIS, CHARACTERIZATION AND ANTI-MICROBIAL ACTIVITY OF ZnO, Cu AND AgNO₃, NANOPARTICLES OF SUNFLOWER HONEY"** for the **MASTER OF PHARMACY (PHARMACEUTICAL QUALITY ASSURANCE)** is a record of bonafide research work carried out by **Ms. PRERANA GANESH BAMBALE** under the guidance of **DR.A.R. BALAP** at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022-2023

Date:

15/6/2023

Place: Nigdi, Pune

**Dr. P.D. Chaudhari
Principal**



Principal

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

**Data of Hospital Related Projects (Pharm D students)**

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**Data of Projects Completed**

(Pharm D students)



A. Y. 2022-2023


Name of the Students	Title of the Study	Name and Details of the Principal Investigator	Name and Details of the Guides
Ms. Pratiksha Bhoite Mr. Swapnil Ghatule Mr. Atharva Nanday Mr. Sumeet Udawant	Study of Onset Time, Risk Factors, and Prescription Pattern in Patients with Stroke.	Dr. Rahul Kulkarni; M.B.B.S. M.D. (Medicine), D.M. (Neurology), D.N.B (Neurology), FAAN Department of Neurology, DMHRC	Dr. Rajani Mali
Ms. Aparna Awhad Ms. Divya Hagawane Ms. Muskan Radhanpura Mr. Pranav Yelamkar	Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report.	Dr. Ashwini Joshi, Consultant, M.B.B.S.D.N.B. (Medicine), CCEBDM D.N.B. (Medicine) Department of General Medicine, DMHRC	Dr. Mayuri Khaparde
Ms. Rachita Ranasubhe Ms. Sanket Talegaonkar Ms. Saloni Yadav Ms. Jagrutin Yenpure	To study incidence, cost analysis and drug utilization pattern of anticoagulants in patient with VTE.	Dr. Narendra Javadekar ;M.B.B.S.M.D.(Medicine), D.N.B.(Medicine), M.A.(Economics) Department of General Medicine, DMHRC	Dr. Rajani Mali
Ms. Shweta Kendre Mr. Shiva Khanal Ms. Pranali Mahajan Ms. Shraddha Nachane	Assessment of drugs dose adjustment in chronic kidney disease patients in tertiary care hospital.	Dr. Atul Mulay M.B.B.S. M.D., (Medicine), D.N.B. (Nephrology), M.Sc. (Epidemiology), Department of Nephrology, DMHRC, Pune	Dr. Rohini Chavan
Ms. Sukshamta Balure Mr. Satyawar Kumbhar Mr. Akash Mahamuni Ms. Sujata Thokal	To design, develop and validate the screening tool for minimizing prescription error in neonates.	Dr. Shilpa Kalane; M.B.B.S., D.N.B (Pediatrics), Dr.N.B. (Neonatology), Department of Neonatology, DMHRC, Pune	Dr. Mayuri Khaparde
Ms. Vaishnavi Deshmukh Mr. Gaurav Memane Ms. Vaishnavi Panchariya Mr. Vedant Patil	Design, development and validation of screening tool for IV medications incompatibility in neonates.	Dr. Shilpa Kalane; M.B.B.S., D.N.B (Pediatrics), Dr.N.B. (Neonatology), Department of Neonatology, DMHRC, Pune	Dr. Sunita Pawar





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Ms. Vaishnavi Chavan Mr. Harshal Jadhav Ms. Pranali Kumbhar Mr. Shubham Shewale	To evaluate the drug utilization and analysis of antiepileptic drugs at tertiary care hospital	Dr. Rahul Kulkarni; M.B.B.S. M.D. (Medicine), D.M. (Neurology), D.N.B (Neurology), FAAN Department of Neurology, DMHRC	Dr. Anjali Kumbhar
Mr. Nitesh Agrawal Ms. Shruti Akhade Mr. Shubham Kudale Ms. Ashwini Vare	Development of The Mobile Application For Digital Literacy Related To Cardiovascular Risk Factors In Sociological Factors	Mr. Nitesh Agrawal Ms. Shruti Akhade Mr. Shubham Kudale Ms. Ashwini Vare	Mr. Siddhartha Savdekar
Mr. Abhishek Khaire Ms. Esha Patel Ms. Sumedha Savane Mr. Avinash Shinde	Assessment of drug related problems among cervical cancer patients	Dr. Asma Pathan M.B.B.S M.D. (Medical Oncologist), Indrayani Hospital and Cancer Institute Alandi, Pune	Dr. Anjali Kumbhar





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Sample for Hospital Related Projects Completed (Pharm D students)

**"Assessment of Anti-Microbial Agent Usage Pattern as Per
the Given Susceptibility Testing Report"**

*Thesis submitted in the partial fulfillment for the degree of
Pharm. D
(DOCTOR OF PHARMACY)*

In the faculty of pharmaceutical sciences
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE




Guided by
Dr. Mayuri Khaparde


Co-guided by
Dr. Ashwini Joshi


Submitted by

Ms. Divya Hagawane Ms. Aparna Awhad	Ms. Muskan Radhanpura Mr. Pranav Yelamkar
--	--



PROGRESSIVE EDUCATION SOCIETY'S MODERN COLLEGE OF PHARMACY,
NIGDI, PUNE (2022-23)
(ACCREDITED BY NAAC)




Principal
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Pune - 411 044.



**“Assessment of Anti-Microbial Agent Usage Pattern as Per
the Given Susceptibility Testing Report”**

LETTER OF APPROVAL

The topic has been discussed and approved by the departmental faculty members.

Dr. S. B. Pawar
Head & Associate Professor
Department of Clinical Pharmacy

Dr. A. R. Kumbhar
Assistant Professor
Department of Clinical Pharmacy

Dr. R. P. Chavan
Assistant Professor
Department of Clinical Pharmacy

Dr. R. B. Mali
Assistant Professor
Department Clinical Pharmacy

Dr. M. S. Khaparde
Assistant Professor,
Department of Clinical Pharmacy

Mr. S. R. Savadekar
Assistant Professor
Department of Clinical Pharmacy



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

(ACCREDITED BY NBA & NAAC)

CERTIFICATE BY THE GUIDE

This is to certify that the research work presented in this thesis entitled "Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report" submitted for degree of Doctor of Pharmacy, is the record of research work carried out by Ms. Divya Hagawane, Miss Muskan Radhanpura, Miss Aparna Awhad and Mr. Pranav Yelamkar under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Dr. Mayuri Khaparde

Date: 9/6/2023

Place: Nigdi

(Pharm. D)
Assistant Professor
Project Guide



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MODERN COLLEGE OF PHARMACY, NIGDI, PUNE-44
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CERTIFICATE BY CO- GUIDE

This is to certify that the thesis entitled "*Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report*" submitted for degree of **Doctor of Pharmacy**, is the record of research work carried out by, **Ms. Divya Hagawane, Miss Muskan Radhanpura, Miss Aparna Awhad and Mr. Pranav Yelamkar** under my guidance and supervision and that has not formed the basis for the award of any degree or diploma or other titles in this or any other university.

Date: 9/6/2023

Place: Nigdi, Pune

Dr Ashwini Joshi

MBBS D.N.B. (MEDICINE),
Certificate Course in Evidence Based
Diabetes Management
(CCEBDM D.N.B. (MEDICINE))

Project Co-Guide



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Dr. P. D. Chaudhari

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Yamuna Nagar, Nigdi, Pune- 44.

Ex-Dean, Faculty of Pharmaceutical Sciences,

Savitribai Phule Pune University, Pune.

ENDORSEMENT BY THE PRINCIPAL

This is to certify that the research presented in this thesis entitled, "*Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report*" for Doctor of Pharmacy is a record of bonafide research work carried out by Ms. Divya Hagawane, Miss Muskan Radhanpura, Miss Aparna Awhad and Mr. Pranav Yelamkar under the guidance of Dr. Mayuri Khaparde at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022-23.

Date: 9/6/2023

Place: Nigdi




Dr. P. D. Chaudhari
Principal
P.E.S. Modern College of Pharmacy
Yamuna Nagar, Sector No. 21
Nigdi, Pune-44



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

Dr. S. B. Pawar
Associate Professor,
Head of the Department of Clinical Pharmacy
P.E.S. Modern College of Pharmacy,
Yamuna Nagar, Nigdi, Pune- 44.

ENDORSEMENT BY THE HEAD OF THE DEPARTEMENT

This is to certify that the research presented in this thesis entitled, "*Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report*" for Doctor of Pharmacy is a record of bonafide research work carried out by Ms. Divya Hagawane, Miss Muskan Radhanpura, Miss Aparna Awhad and Mr. Pranav Yelamkar under the guidance of Dr. Mayuri Khaparde at P.E.S. Modern College of Pharmacy, Nigdi, Pune 44 during the academic year 2022-23.

Date: 9/6/2023

Place: Nigdi

Dr. S. B. Pawar

Head and Assistant Professor

Department of Clinical Pharmacy



Principal

P.E. S. Modern College of Pharmacy
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Pune - 411 044.



SAVITRIBAI PHULE PUNE UNIVERSITY



DECLARATION BY THE CANDIDATES

This is to state that the research work entitled "*Assessment of Anti-Microbial agent usage pattern as per the given susceptibility testing report*" for the degree of Pharm. D has not been submitted in parts or full to any other university by us. This is original work undertaken by us under the guidance of **Dr Mayuri Khaparde**, Assistant Professor, PES's Modern College of Pharmacy, and Pune. Such materials as obtained from the other sources have been duly acknowledged in the thesis.

Date: 9/6/2023

Place: Pune


Ms. Divya Hagawane


Ms. Muskan Radhanpura


Ms. Aparna Awhad


Mr. Pranav Yelamkar




Principal
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Data of Case Studies Completed (Pharm D students)



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Data of Case Studies Completed (Pharm D students)
 (Last 5 years)


A.Y. 2022-2023 (Post Post Baccalaureate)

Name of Students	Topic
Dhonde Sharmada Ananda	Hypertension, Myocardial Infarction, Chronic Obstructive Pulmonary Disease, Lower Respiratory Tract Infection With Chronic Kidney Disease With Systemic Hypertension, Urinary Tract Infection
Gadekar Avinash Gitaram	Chronic Kidney Disease With Hypertension With Severe Anemia, Rheumatoid Arthritis With Osteoporosis, Osteoarthritis, Acute Gout Attack, Acute Renal Failure
Ghode Kirtika Rangnath	Influenza, Non Respiratory: Type 2 Diabetes Mellitus, Rheumatic Valvular Heart Disease, Pneumonia And Hyperthyroidism, Acute And Chronic Calcified Pancreatic Hypertension, Acute Decompensated Heart Failure Lower Respiratory Tract Infection
Karanjule Vishakha Vinayak	Renovascular Disease With Esophageal Tuberculosis, Hyperthyroidism, Arthritis, Acute Lymphoblastic Leukemia, Chronic Lymphoblastic Leukemia
Thombare Anushka Bhau	Psoriasis, Chronic Kidney Disease And Ischemic Heart Disease, Malaria, Eczema, Glaucoma

A.Y. 2022-2023 (Fourth Yr Pharm D)

Name of Students	Topic
Tushar Bendga, Sayali Bakale Shardsul Bhanage, Mihir Chachar	Anemia, Headache, Alcoholic Liver Disease
Akansha Chaturvedi, Aditya Dalvi, Saakshi Deokar, Sumedh Desai	Peptic Ulcer Disease, Drug induced blood disorder
Savata Dhadge, Vishal Dhas, Siddhi Dhawade, Abhijeet Gaikwad	Inflammatory Bowel Disease, Gastroesophageal Reflux Disease
Payal Holmukhe, Pratiksha Jadhav, Aishwarya Jagtap, Tushar Jha	Hepatitis C Schizophrenia
Gauri Kale, Padmaja Kamble, Payal Khape, Rutika Lavate, Tallini Lokhande	Deep Vein Thrombosis, Anemia, Sleep Disorder




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Vinay Manocha, Akshaya Meher, Mihir Mirani, Omkar Pande, Tejas Parkhe	Epilepsy, Hepatitis A, Parkinsonism
Pradnya Patil, Ninad Patil, Yash Patil, Pritish Rane, Kanchan Shelke, Akanksha Undale	Alzheimer's Disease, Stroke
Sharmada Dhonde, Avinash Gadekar, Akshay Gaikwad	Jaundice, Biopolar disorder
Kirtika Ghode, Vishakha Karanjule, Anushka Thombare	Obsessive Compulsive Disorders, Anxiety

A.Y. 2022-2023 (Third Yr Pharm D)

Name of Students	Topic
Arbane Yashraj, Banerjee Sheryasi, Chavan Deeksha, Dere Shruti	Dengue, Urinary Tract Infection, Tuberculosis with Human Immunodeficiency Virus
Deshmukh Vaibhavi, Dumbre Shreya, Gande Monica, Ghundre Sakshi	Viral Meningitis, Septic Arthritis, Tuberculosis with Spondylodiscitis.
Jadhav Sayali, Jagtap Pratik, Joshi Nikhil, Kendre Shailesh	Chronic Kidney Disease With Ischemic Heart Disease, Typhoid.
Kulkarni Mrudul, Kulkarni Pratiksha, Kulkarni Prerana, Kute Sakshi, Latey Sakshi	Psoriasis, Infective Endocarditis, Diabetes Mellitus With Mucormycosis.
Madane Tanvi, Mainkar Karishma, Moharkar Shruti, Momin Osama	Acute Lymphoblastic Leukemia, Pneumonia, Lower Respiratory Tract Infection
Motghare Sayali, Panchabhai Pushkar, Patil Swapnil, Sayyed Ajmat	Chronic Lymphoblastic Leukemia, Chronic Kidney Disease with Heart Disease, Osteoarthritis.
Shastri Anvay, Tayade Anushka, Thakare Tanvi, Zarekar Ameya	Breast Cancer, Malaria




Principal
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A.Y. 2022-2023 (Second Yr Pharm D)

Name of Students	Topic
Aher Yash, Bargal Aarya, Bhattacharya Shreeparna, Bhosale Shruti	Hypertension Myocardial Infraction with Coronary Atery Bypass Graft
Bhoyar Shweta, Botre Shivani, Burukale Vaishnavi, Chavan Shreyan	Chronic Obstructive Pulmonary Disease, Unstable Angina
Dagade Rani, Deosarkar Vasundhara, Dhawade Siddhi, Dhekane Sharanya	Chronic Kidney Disease, Hypertension, Diabetes Mellitus Acute Decompensate Heart Failure
Gaikwad Aaditya, Hingane Niranjan, Jadhao Ankit, Jadhav Yuvraj	Atrial Flutter Diabetes Mellitus with Hyperthyroidism Type 1 Diabetes Mellitus with Pneumonia
Kamble Rutika, Kamjalge Prafull, Kumthekar Satsang, Misal Soham, Motwani Neerav	Asthma, Hypertension, Diabetes Mellitus, Diabetes Mellitus with Cellulitis
Nagare Shweta, Pagadala Laasyaratna, Sanap Nikita, Savali Kirti, Sonawane Srushti	Glaucoma Conductivities Myocardial Infraction
Swami Harshada, Thigale Mansi, Wadekar Harsh, Waghmode Aniket	Osteoporosis Urinary Tract Infection with Hypothyroidism

A.Y. 2021-2022(Third Yr Pharm D)

Name of students	Topic
Bendga Tushar, Dalvi Aditya, Deokar Saakshi, Dhas Vishal Khandu	Pancreatitis, Adenocarcinoma, Cholestatic, Schizophrenia
Dhawade Siddhi, Holmukhe Payal, Kamble Padmaja, Lokhande Tallini	H-Pylori Induced Gastritis, Acute Ischemic Stroke, Renal Stone
Meher Akshaya, Pande Omkar, Parkhe Tejas, Patil Yash	Febrile Seizure, Ovarian Cancer Hepatitis With Hypertension, Peptic Ulcer
Rane Pritish, Shelke Kanchan, Bakale Sayali, Bhange Shardul, Chachar Mihir	Vertigo And Dizziness, Angina Pectoris, Urinary Tract Infection, Food Poisoning
Chaturvedi Aakansha, Desai Sumedh, Abhijit Atmaram, Jadhav Pratiksha, Jagtap Aishwarya	Pneumonia, Dengue Fever, Autoimmune Hemolytic Anemia, Breast Cancer
Jha Tushar, Sanjeev Kumar Kale Gauri, Khape Payal, Lavate Rutika, Manocha Vinay	Ascites, Immune Thrombocytopenia Purpura, Typhoid Fever, Lung Adenocarcinoma
Mirani Mihir, Patil Ninad, Patil Pradnya, Undale Akanksha, Dhadge Savata	Cellulitis, Megaloblastic Anemia, Hodgkin's Lymphoma, Tonsillitis




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A.Y. 2021-2022(Second Yr Pharm D)

Name of Students	Topic
Arbane Yashraj, Banerjee Shreyasi, Ruchita Adinath, Deeksha Prakash	Febrile Seizures, Alcoholic Gastritis, Chronic Kidney Disease with Intrinsic Sphincter Deficiency, Subdural Hematoma
Dere Shruti, Deshmukh Vaibhavi, Dumbre Shreya, Gande Monica	Vertigo and Dizziness, Dengue Fever, Tuberculosis, Hypertension
Ghundre Sakshi, Jadhav Sayali, Jagtap Pratik, Joshi Nikhil	Chronic liver disease, Hemorrhage stroke, B cell lymphoma, Ischemic stroke
Kendre Shailesh, Kulkarni Pratiksha, Kulkarni Prerana, Kulkarni Mrudul	Hodgkin's lymphoma, Immune thrombocytopenia purpura, Megaloblastic anemia, Angina pectoris
Kute Sakshi, Latey Sakshi, Madane Tanvi, Mainkar Karishma	Basal cell carcinoma, Peptic ulcer, Aplastic Anemia, Ventricular tachycardia
Moharkar Shruti, Momin Osama, Mothghare Sayali, Panchabhai Pushkar, Patil Swapnil	Proximal tibia fracture, Breast cancer, Diabetic foot, Hiatus hernia with anemia, Thyroid fever
Sayed Azmatsameer, Shastri Anvay, Tayade Anushka, Thakare Tanvi, Zarekar Ameysa	HIV, Alcoholic liver disease, Metastatic lung carcinoma, Ectopic pregnancy, Duodenitis


A.Y. 2020-2021

No Case Studies were conducted due to pandemic Covid-19 situation

A.Y. 2019-2020 (Second Yr Pharm D)

Name of Students	Topic
Agrawal Nitesh, Akhade Shruti, Awhad Aparna, Balure Sukshamta	Tuberculosis, Left Basal Ganglia Infarct
Chavan Vaishnavi, Deshmukh Vaishanavee, Hagawane Divya, Kendre Shweta	Diabetic Foot Ulcer with Peripheral, Cholecystitis
Khaire Abhishek, Khanal Shiva, Kudale Shubham, Kumbhar Pranali	Chronic Bowel Disease, Koch's Abscess
Mahajan Pranali, Mahamuni Akash, Memane Gaurav, Nanday Atharva	Diabetes Mellitus with Hypertension with Ischemic Heart Disease with Chronic Obstructive Pulmonary Disease, Ovarian Cancer
Panchariya Vaishnavi, Patel Esha, Patil Vedant, Ranasubhe Rachita	Lower Respiratory Tract Infections, Carcinoma of Alveolus
Savane Sumedha, Shewale Shubham, Shinde Avinash, Talegaonkar Sanket, Udawant Sumeet	Kidney Diseases
Yadav Saloni, Yelamkar Pranav, Yenpure Jagriti	Pacemaker




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Sample for Case Studies Completed (Pharm D students)

Case no. 1

Department of Clinical Pharmacy
PES's Modern College of Pharmacy, Nigdi Pune
Pharmacist's Patient Documentation Form at Deenanath Mangeshkar
Hospital and Research Center, Pune.

1. PATIENT DETAILS:

Name: XYZ	Age: 52y	Gender: M	Ref.No:	Weight: 53 kg
Height:	BMI:	Dept.:	D.O.A: 10/12/22	D.O.D:

2. CHIEF COMPLAINTS:

5 days cough with expectoration, fever since 7 days, oral intake reduced, headache.

3. PAST MEDICAL HISTORY:

RVD, Esophageal TB, ToF, In long term TT
[completed ATT for esophageal TB (11 months)
For esophageal TB medication - 2 RHZE / TRHE]

4. PAST MEDICATION HISTORY:

Tab. Reatix Kit - HS
Tab. Ecosprin AV 75 0-0-1
Syrup. A to Z 1-0-0
Tab. Bactrim DS 0-0-1

5. SOCIAL HISTORY:

Smoker: -	Alcoholic: -	Allergies: No	Other: Covid-19 Vaccination (1)	Marital status: -
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6. OTHER INVESTIGATIONS:

1) Labs
2) CXR - right lower zone haziness
3) Microscopy: Specimen: TT secretions
Gram stain: Plenty of polymorphonuclear cells
Plenty of gm +ve cocci in pairs
Plenty of gm +ve cocci in cluster
Plenty of gm +ve bacilli



7. PROVISIONAL DIAGNOSIS:

8. LABORATORY FINDINGS:

Test	Normal Value	Day	Day	Test	Normal Value	Day	Day
Hb	12-15gm%	10.3		Liver Function Test			
RBC	4 to 5 m/cmm	3.2		Total Bilirubin	0.3-1 mg/dL		
PCV	40-50%			Direct Bilirubin	0.1-0.3 mg/dL		
MCV	75-95fL	76		Indirect Bilirubin	0.1-0.8 mg/dL		
MCH	25-35 pg	32		SGPT	5 - 55 IU/L		
MCHC	30-35 gm/dl	33.56		SGOT	5 - 34 IU/L		
RDW	11.6-14.8%			Serum Alkaline Phosphatase	40 - 150 IU/L		
TLC	4000-10,000/cmm			Total Proteins	6 - 8 gm%		
Differential count				Serum Albumin	3.5 - 5.2 gm%		
Neutrophils (N)	40-75%	76		Serum Globulin	0-0 gm%		
Lymphocytes (L)	20-45%	19		Albumin : Globulin ratio	0.8 - 1.5		
Eosinophils (E)	1-6%	1		Renal Function Test			
Monocytes (M)	1-10%	8		Blood Urea level			
Basophils (B)	0.1-1%	0.2		Sr. Creatinine	0.57 - 1.11 mg%	0.78	
ANC - Absolute Neutrophils Count	2000-7500/cmm	4300		eGFR	0-0ml/min	91	
ALC - Absolute Lymphocytes Count	1500-4000/cmm	3650		Sr. Calcium	9-10.5 mEq/L	9	
AEC - Absolute Eosinophils Count	40-400/cmm	156		Sr. Phosphorous	3-4.5 mEq/L	3.8	
AMC - Absolute Monocytes Count	200-800/cmm	750		Sr. Uric acid	0.24-0.51 mEq/L	0.39	
ABC - Absolute Basophils Count	0.1-100/cmm	20		Sr. Sodium	136 - 145mEq/L	137	
Platelet Count	1,50,000-4,50,00/cmm	225000		Sr. Potassium	3.5 - 5.1mEq/L		
MPV	8-11.5fL			Sr. Chlorides	98 - 107 mEq/L		
Peripheral Smear				Urine Analysis Test			
Platelet Morphology				Albumin	>30 mg		
Bleeding Time	1-9 min.			Sugar			
Clotting Time	4-10 min.			Pus Cells	✓ 17		
INR Ratio	<1.1			RBCs			
Lipid Profile Test				Epithelial cells			
T. CHL	150-199 mg/dL			Culture Sensitivity testing			
HDL	≥ 40 mg/dL			Blood			
T.G.	≤ 150 mg/dL			Urine			
LDL	< 30mg/dL			Pus			
	≤ 130 mg/dL			ET secretions			
				Organism			
				① E. coli			
				② P. aeruginosa			
				③ S. pneumoniae			

9. FINAL DIAGNOSIS:	
RVD with Esophageal TB	
Clinical Notes	Treatment Given
<p>Day 1 Cough with expectoration Fever since 7 days, oral intake reduced, headache Day 1 labs q/w CXR noted</p> <p>Start piptaz E-T secretions for culture Send tracheal aspirate for culture</p>	<p>continued current med.</p> <p>T. Bactrm DS 0-0-1 T. Ecospin AV 75 0-0-1 Syp. AtoZ 2tsp 1-0-0 T. Reatix kit --- HS</p> <p>Added piptaz 4.5 inj q.i.d</p>
Clinical notes	Treatment Given
<p>Seen, stable <u>Afebrile</u></p> <p>Cough reduced No breathlessness</p> <p>Awake oriented Continue suctioning, care of tracheostomy</p> <p>Fever cough clinically better ct as per pr CDY250. Viral load undetectable. ct PEG Nutrition</p>	<p>same as above</p>



Day 3	Clinical Notes	Treatment Given
12/12 8:48	Pt -sleeping ct - suctioning culture awaited	Same as day 1
15:17	Better having full diet per oral ct current treatment Reduced TT secretions.	
Day 4	Clinical notes	Treatment given
13/12 9:21	Seen. Afebrile, stable Decannulation today ct rest.	Same as Day 1
18:35	Decannulated No respiratory distress post decannulation observe in ICU today. Physiotherapy & pulmonary rehab.	


Day 3	Clinical Notes	Treatment Given
14/12 6:36	Awake & well oriented. Stable Hemodynamically Accepted orally, BSL-ok, maintain sats off O ₂ , No respiratory distress. Plan - Send urine culture Cusine 1+ pus cells after confirmation from primary trace TT culture.	Same as day 1
12:35	Left side paralysed. In bed ex. Autogenic drainage for secretion (d. secretions t.t. bedside sitting with dynamic quads. Pt stable post Rx	




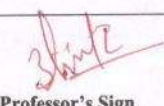


Day 7	Clinical Notes	Treatment Given
15/12 2:51	stable Awake, well oriented SPO ₂ - 96% on RA L side paralysed, left foot deformity, has AFO at home, does not use. Patient stable post Rx	D-6 piptaz ct. current treatment ct. physiotherapy. Autogenic drainage for secretion clearance, chest percussion vibrations given.
15/12 2:53	currently better cough reduced on D-6 piptaz. Tom. last day of piptaz completet 7 days of piptaz.	

Day 14	Clinical Notes	Treatment Given
16/12 2:56	At present stable No fresh complaints. SPO ₂ - 97% on RA	D7 piptaz "ct rest".
16/12 2:54	case reviewed stable Discharge today	
16/12 2:23	Physiotherapy Patient stable post Rx	→ same as day 6 standing support, spot marching balance exercise, done ambulated 3 steps & made to sit in chair.


Student's Sign.




Professor's Sign.



5/8/22
1

Case NO -1

RVD with Esophageal TB

A 52 yr old male patient was admitted to DMH on 10/12/22 in the department of ICU / respiratory medicine. Patient's weight is 53 kg which is less according to the ideal weight for a 50-55 year old man, which is because of underlying disease i.e. RVD & TB. His height is 1.73 M & BMI calculated is 17.7 Kg/m^2 mild thinness.

Subjective data -
Chief complaint -
Patient was having chief complaints of cough with expectoration since 5 days; fever since 7 days, headache & his oral intake is reduced.

Post medical history / History of present illness -
Patient had esophageal TB since 1 year and he completed 1 yr (11 m) of anti-tubercular treatment. He is also a immunocompromised because he is also having RVD (Retroviral disease). Patient is also having ToF and he is having tracheostomy tube placed which has to be decannulated. And now the patient is brought with increased cough and purulent secretions in the ICU.

Post medication history -
For RVD patient was prescribed Tab. Raltegravir & for esophageal TB he has completed, 11 m ATT.



Family history - Not known

Social history -

Patient don't have any smoking or alcohol consumption habit and no allergies at present. Patient have done 1st dose of covid - 19 vaccination.

Objective data -

The patient was already diagnosed with RVD with esophageal TB disease and then admitted to DMH for further treatment.

Patient labs were : 10.3 / 6060 / 4300 / 225000
Hb / WBC / ANC / Platelet

His Hb is less, WBC is in normal range, ANC also in the required normal range. His RFT, urine receptors are within normal limits. Patient is conscious & oriented with BP - 120/80 which is normal, PR of 20, PR of 84 beats/min & temp of 97.50. Hence patient is vitally stable.

On day 1, patient had chief complaints for fever since 5 days, headache & cough since 5 days. Day 1 labs a/w, CXR noted & continue the treatment i.e Tab. ecosprin AV 75/10 Hs, T. Bactrim DS OD, Reatin Kit Hs, Piptuz 4.5 q.i.d, syp. A to Z 2tfd OD. TT secretions were sent for analysis. Patient is awake & oriented & the condition of the patient was explained to the family. At evening 18:35 CXR reported showed right



2

lower zone haziness & tracheal aspirate was sent for culture.

On day 2, Case reviewed & the patient was awake & oriented spontaneous cough is good & suctioning was continued with taking care of tracheostomy. Cultures were also fever & cough was seen along with purulent discharge. Ct as per Dr. His CD4⁺ count was >200 which is less than the required range i.e. $500 - 1000 \text{ cell/mm}^3$, this is due to patient is immunocompromised due to RVD & the viral load is undetectable.

On day 3, Patient is seen, sleeping suctioning is continued along with care of tracheostomy. Patient's condition is better & he is having full diet per oral. Continue current treatment as patient is stable & TT secretion are reduced. Patient's Plan - to shift to stroke or liver unit on Day 3 morning decannulation.

On day 4, Patient is afebrile, stable & secretions are reduced. FT culture also. Patient is shifted to ICU for TT decannulation. & no TT with cuff deflated in situ. On RA, secretions were present, chest was fairly clear & the patient was decannulated. Post decannulation, no respiratory distress was seen. He was advised for physiotherapy & pulmonary rehab & refer to Dr. XYZ.

On day 5, Patient was HD stable, maintained SpO₂ off O₂ & was having no respiratory distress. BSL were ok. Haemogram was reported & urine culture was sent resulting 17 pus cells in urine after confirmation from primary trache TT.



In microscopy of TT secretion, it resulted in presence of plenty of polymorphonuclear cells, plenty of gram positive cocci in pairs, few gm -ve bacilli. Same treatment was continued & the patient to be shifted out on Day 6. L side was paralysed. Inbed exercise was done. Autogenic drainage for secretion clearance was performed & bedside sitting with dynamic quadrads was done. Pt was stable post Rx.

On day 6, Patient is on Piptaz. He is stable & oriented. T secretions culture noted which resulted in isolated of 3 organisms -
(1) E.coli - (colony count 10^{10} cfu/ml) which showed resistance to all antibiotics except sensitive to amikacin, tobramycin, Gentamicin & intermediate to colistin.

(2) Streptococcus pneumoniae - which is sensitive to penicillin G & ampicillin.

(3) Pseudomonas aeruginosa resistant to all but intermediate to colistin.

As ongoing treatment patient's condition improved so continued the treatment. Currently better cough reduced on DS - piptaz & tomorrow last day of piptaz. At present patient is stable having no fresh complaints & SpO_2 $94\pm1\%$ on R-A.

On day 7, Patient is stable, & physiotherapy was performed. Inbed exercise done by patient, autogenic drainage for secretion clearance done, chest percussion vibrations were given. Bedside sitting with dynamic quadrads, standing with



3


support, spot marching, balance exercise done, ambulated - 3 steps & made to sit in chair. last day of piptaz & patient was stable post Rx.

During hospital stay -

- 1) Pan 40 Tab q:24 hr for preventing acidity & reflux (from day 1 to 7)
- 2) Bachim Ds Tab OD for 10 days for infection
- 3) Syrup A to Z 2tsf OD for nutrition supplement multivitamin (from day 1 to 5)
- 4) Inj. Ondem 2ml iv. for preventing nausea (sos).
- 5) Reatix kit Hs po, OD for RVD (from day 1 to 7)
- 6) Ecosprin AV 75/10 Hs for TOF (day 1 to day 7)
- 7) Inj. Tazomac 4-5gm iv q.i.d for bacterial inf. (from day 1 to day 7).

Assessment -

- 1] For cough, purulent secretions, ET secretions or infections: as Inj. Tazomac is improving the patient's condition it should be continued.
- 2] The RVD - T Reatix kit is the selected regimen so according to Dr it was continued.
- 3] weight management - Patient weight is too less so he should be counselled for nutrition & weight.
- 4] Drug drug interaction - Pantoprazole + Atazanavir - PPIs are not recommended in treatment experienced taking atazanavir as atazanavir stability decreases as pH increases.





Plan -

Recommendations and monitoring -

- 1] continue the inj. Tazemac till day 7.
- 2] PPI dose should not exceed a dose compared to omeprazole 20mg & must be taken ~12 hr before atazanavir / ritonavir
- 3] Monitor RFT as ART is going on.
- 4] Monitor electrolyte abnormalities. The patients condition shown improvement so he was discharged.

Advice on discharge -

In discharge medication his old regimen continued. Tab. ecosprin AV (0-0-1) x 90 D
Bachim DS OD (1-0-0) x 90 D
syp. A to Z 2 tsp OD x 90 D
Reatix kit H-S

- 1] Keep regular follow up.
- 2] Follow physiotherapy as advised.
- 3] Maintain hygienic conditions & clean the dressing
- 4] Do not miss any dose of the above prescribed medication
- 5] As decontamination is done wait for 3 months for automatic closure

Patient counselling - Disease related -

RVD:

Retro viral disease / HIV is caused by a virus that further leads to AIDS. For



4

treatment of HIV Antiretroviral therapy or HAART are initiated as soon as diagnosed with HIV because this virus is continuously replicating & attacking the immune system of the patient making them immunocompromised.

- It can be controlled & not transmitted by ART & precautions.

- As immunocompromised patient have to perform blood test, CD4 count test to keep a check on no. of WBCs & viral load.

- Patient is susceptible for various opportunistic infections so hygiene is necessary.

Drug related -

1] Take Bactrim DS (1-0-0) in the morning with a full glass of water before & after food. Drink plenty of fluids while taking this medication.

2] Acosprin AV (0-0-1) in the evening after dinner. Not to skip the dose.

3] Symp. A to Z 2tsp daily once along with meals

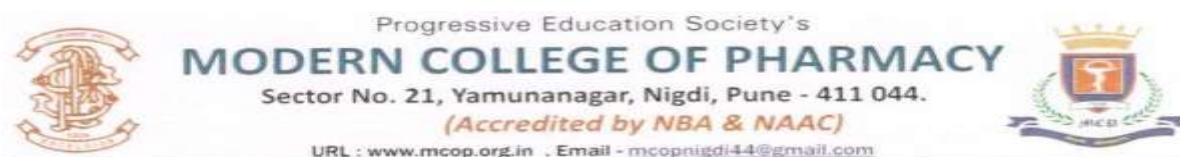
4] Reatix kit Hs, i.e. take at night time after meals & do not administer PPIs (omeprazole, pantoprazole) ~~with~~ or while on medicine. Avoid eating oily or spicy food.

For septic arthritis - Clean the wound, change dressing. Follow physiotherapy instructions.

Follow up - Follow up on regular OPD bases.



Data of NPTEL Courses Completed by Students


Data of NPTEL Courses Completed by Students
 (Last 5 years)

A. Y. 2022-23			
Sr. No	Name of Course	No of Students Enrolled	No. of Students Completed
1	NPTEL Course on Introduction to Research	22	22
2	NPTEL Course on Intellectual Property Rights and Competition Law	11	11
A. Y. 2021-22			
1	NPTEL Course on CURRENT REGULATORY REQUIREMENTS FOR CONDUCTING CLINICAL TRIALS IN INDIA FOR INVESTIGATIONAL NEW DRUGS/NEW DRUG (VERSION 3.0)	13	13
2	NPTEL Course on Intellectual Property	15	15
A. Y. 2020-21			
No Enrolment due to COVID pandemic			
A. Y. 2019-20			
1	NPTEL Course on Roadmap on Patent Creation	8	8
2	NPTEL Course on Softskills and Personality	12	12
A. Y. 2018-2019			
1	NPTEL Course on Six Sigma	9	9
2	NPTEL Course on English Language for competitive exams	1	1
3	NPTEL Course on Medicinal Chemistry	6	6
4	NPTEL Course on Better Spoken English	1	1
5	NPTEL Course on Stress Management	1	1
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Score	Type of Certificate
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75-89	Elite+Silver
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Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2022
(12 week course)


Prof. Andrew Thangaraj
NPTEL Coordinator
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MAHARASHTRA - 431513
PH. NO :9049741474

Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3
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Intellectual Property

with a consolidated score of **67** %

Online Assignments	20.72/25	Proctored Exam	46.13/75
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Total number of candidates certified in this course: 902

Devendra Jalihal
Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Apr 2022
(12 week course)

Prof. Andrew Thangaraj
Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras

Indian Institute of Technology Madras

Modern College of Pharmacy

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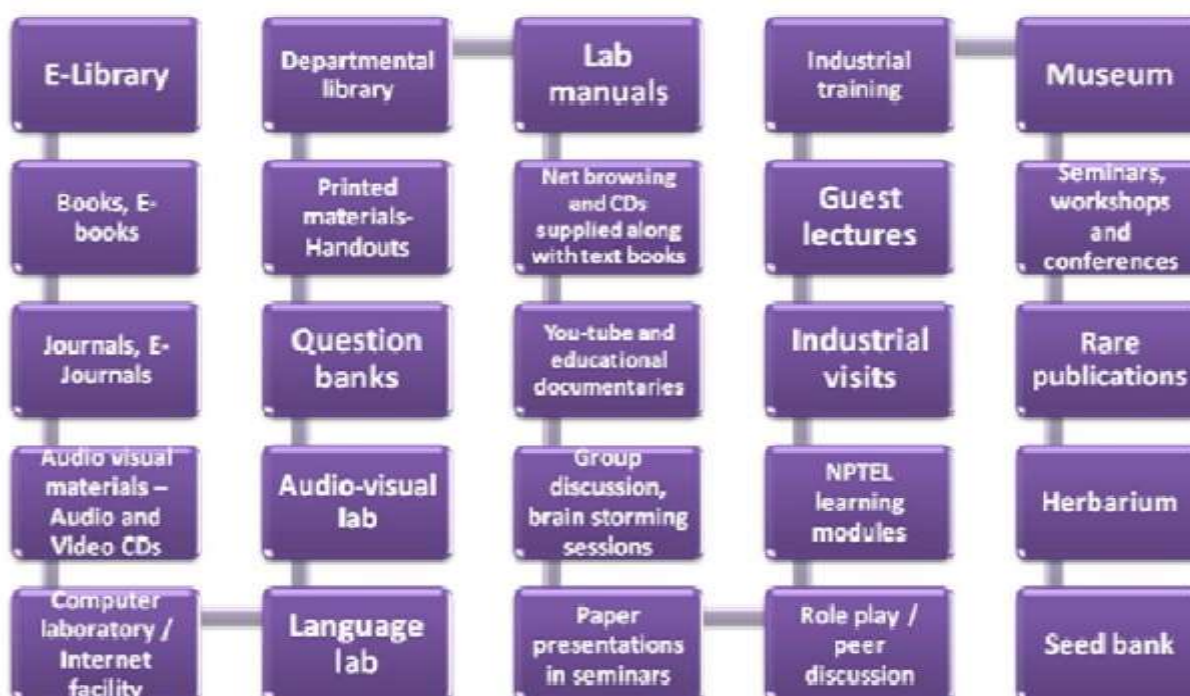
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Pedagogical Methods

