

Criterion 3 - Research, Innovations and Extension



PES MODERN COLLEGE OF PHARMACY
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Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

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CRITERIA III

Key indicator: 3.2. Innovation Ecosystem

3.2.2 Number of workshops/seminars/conferences including programs conducted on Research methodology, Intellectual property right and entrepreneurship during the last five years

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2021-22

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Sr. No	Name of the workshop/ seminar/ conference	Number of Participants	Date	Pg. No
1.	Opportunities in clinical research	108	17/08/2021	4-8
2.	Demonstration of Microwave oven	128	19/08/2021	9-13
3.	Approach to community pharmacy-An overview	50	19/09/2021	14-16
4.	Demonstration of Trinocular microscope	69	25/09/2021	17-22
5.	Key to formulation design	50	04/12/2021	23-28
6.	Career Opportunities in clinical research	50	14/12/2021	29-35
7.	Steps of starting up your business for pharmacy students	50	21/01/2022	36-39
8.	Demonstration of Brookfield viscometer	21	12/02/2022	40-44
9.	Training program on chemical safety	20	18/02/2022	45-49
10.	Demonstration of Flame photometer	70	22/02/2022	50-57
11.	Demonstration session on Lyophilizer	21	25/02/2022	58-64
12.	Demonstration of Plethysmometer	127	25/02/2022	65-70
13.	Demonstration session of Probe sonicator	15	25/02/2022	71-76
14.	Demonstration session of Tablets coating machine	55	26/02/2022	77-87
15.	Global regulatory affairs	60	25/05/2022	88-92

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PES MODERN COLLEGE OF PHARMACY
(FOR LADIES), MOSHI, PUNE



Opportunities in Clinical Research

Mr. Parnavi Raval

Speaker

Date: 17/08/2021



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Business Council of P.E.S. Society, Pune

MCPL/let/2021/240A.

Date: 18/08/2021

To,

Ms. Parnavi Raval,
Director,
Ingenious Healthcare,
Hadapsar, Pune

Sub: Opportunities in Clinical research.

Dear Sir,

With reference to the above cited subject, we Modern College of Pharmacy For Ladies express our gratitude towards you for your gracious presence for guiding and counselling our students.

I really appreciate your endeavour & hope that this sound bond will become stronger in future.

Thanking you.


Principal



PRINCIPAL
PES Modern College of Pharmacy
(For Ladies)
Borhadewadi, At/Post Moshi,
Tal.Haveli, Dist.Pune - 412105

• Borhadewadi, Dehu - Alandi Road, A/P. Moshi, Tal - Haveli, Dist. - Pune - 412 105 M.S. (INDIA)
• Tel. 7276078868 Email.: pharmoshiwomen@yahoo.com Website.: www.mcpledu.org



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MCPL/CeA/2021/2389.

Date 17/08/2021

To,
Ms. Parnavi Raval,
Director,
Ingenious Healthcare,
Hadapsar, Pune.

Subject: Regarding Invitation for delivering a guidance guest lecture

Dear Sir,

We are pleased to invite you for guest lecture on the topic **“Opportunities in Clinical Research”** at our institute.

So kindly accept our invitation.


Principal



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Date:18/8/21

REPORT OF WEBINAR BY CAREER GUIDANCE CELL COMMITTEE

The webinar was arranged in PES Modern College of Pharmacy for (Ladies),
Moshi

Date-18/08/2021

Time-11-12:30 Pm

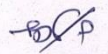
Mode –Online Zoom

Convey by- Ms. Rutuja Aher

Speaker Name – Ms.ParnaviRaval

The Topic of webinar was “Opportunity in Clinical Research”. Zoom link has shared before 15 min. Ms.ParnaviRaval was speaker working as Director, Ingenious Healthcare, Hadapsar, Pune. The Session was started with Floral Welcome of Ms.ParnaviRaval.

She Started Session by Presentation about what is Clinical research .Scope of Clinical research and job opportunity in Clinical research. She has also focused on current opportunities available in Clinical research after B.pharm and M Pharm. She has interact with students regarding their queries about topic .The session was interactive and student were satisfied to listen the thought.


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	56-Shruti Narkhede	ॐ	...
	57-Manisha kevat	ॐ	...
	60 Rutika kshirsagar	ॐ	...
	61.Vaishnavi Labade	ॐ	...
	64 akanksha phatangare	ॐ	...
	64-Pranjal Lokhande	ॐ	...
	68 Sakshi Rakshe	ॐ	...
	69pratiksha Raut	ॐ	...
	70 Prerana Raut	ॐ	...
	70 Shravani Mule	ॐ	...
	76-Amita Pakhare	ॐ	...
	78 Kalyani Pandit	ॐ	...
	84 Pallavi Wagh	ॐ	...
	86 ashwini waghmare	ॐ	...
	9 Pratiksha Bhandarkar	ॐ	...
	93 Gitanjali Chormale	ॐ	...
	95 - Siddhi Sawal	ॐ	...
	97 Aditi Shevkari	ॐ	...
	98 Pratiksha Ekal	ॐ	...
	99 Manisha Chaudhari	ॐ	...



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**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES),
MOSHI, PUNE**



**WORKSHOP ON
DEMONSTRATION OF MICROWAVE
OVEN**

**TRAINER
Rekha Bhalerao**

19-08-2021



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Demonstration on Microwave Oven

Academic Year 2021-2022

19/08/2021

A demonstration on microwave oven was conducted in chemistry lab 1.

For the demonstration a experiment of synthesis of ester from amino acid was selected.

Steps involve while using microwave oven

11. Push the main switch of electrical supply. A light comes on in the cavity and the blower makes a humming sound.
12. Make sure that the flask containing reaction mixture is placed in the right position.
13. This should be exactly above the magnetic stirrer.
14. Put magnetic needle & porcelain bits in the flask.
15. Select power level to change voltage, voltage can vary from 140 to 700 watt.
16. Time can increase by pressing time button in multiples of 1 Min & 5 Min.
17. Shut the door properly & press START. Your reaction has begun. The time display starts counting downward.
18. To measure temperature, press STOP, open the door and dip the probe in solvent.
19. To stop the synthesizer press STOP or open the door.
20. While using this student should wear hand gloves.

Applications:

- Using microwave oven we can complete reaction within 5 to 10 min.
- Less amount of solvent needed to perform experiments using microwave oven.

R.A. Bhalerao
CMRS R.A. Bhalerao



G.R. Ekbote
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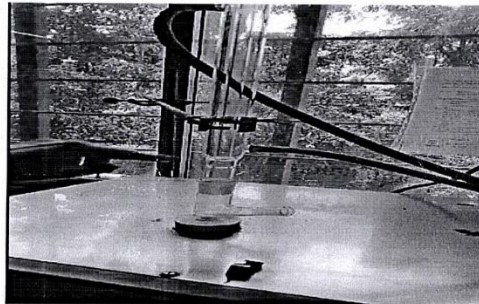
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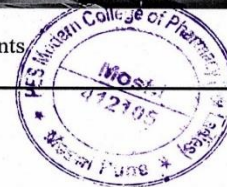
Display of microwave oven



Condenser attached with microwave oven



Demonstration of microwave oven to students



Demonstration of microwave oven on 19/08/2021

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Students present for demonstration of microwave oven

SR. NO	ROLL NO.	Name	SIGN	ROLL NO.	Name	SIGN
1	1	Gayatri Aade	G Aade	33	Vaibhavi Gandhi	V Gandhi
2	2	Adalinge Bhaghyashri	A Bhaghyashri	34	Shweta Gatkal	Shweta G
3	3	Shraddha Adhav	S Adhav	35	Anjali Gautam	A Gautam
4	4	Rucha Akanikar	R Akanikar	36	Arati Gavali	A Gavali
5	5	Rutuja Ankushe	R Ankushe	37	Pranali Gavate	P Gavate
6	6	Akansha Arekar	A Arekar	38	Harshada Gaware	H Gaware
7	7	Misba Attar	M Attar	39	Priti Ghenand	P Ghenand
8	8	Varsha Bangar	V Bangar	40	Prachiti Ghodake	P Ghodake
9	9	Pratiksha Bhandarkar	P Bhandarkar	41	Rutuja Ghundare	R Ghundare
10	10	Nandini Bhavsar	N Bhavsar	42	Vedanti Gulhane	V Gulhane
11	11	Varsha Bhilare	V Bhilare	43	Vaishnavi Gupta	V Gupta
12	12	Akshata Bhor	A Bhor	44	Anuja Gurav	A Gurav
13	13	Sayali Bhor	S Bhor	45	Sakshi Gurav	S Gurav
14	14	Aishwarya Bhore	A Bhore	46	Anjali Hande	A Hande
15	15	Mrunmayi Bhosale	M Bhosale	47	Kadambari Hankare	K Hankare
16	16	Manaswi Bhurkud	M Bhurkud	48	Sakshi Hiwale	S Hiwale
17	17	Bushra Bagwan	B Bagwan	49	Sakshi Holkunde	S Holkunde
18	18	Priya Chauhan	P Chauhan	50	Neha Jadhav	N Jadhav
19	19	Aishwarya Choudhari	A Choudhari	51	Pooja Jadhav	P Jadhav
20	20	Ashwini Dafal	A Dafal	52	Pallavi Jadhavar	P Jadhavar
21	21	Anushka Deokar	A Deokar	53	Urwashi Jagdale	U Jagdale
22	22	Sakshi Devsatwar	S Devsatwar	54	Supriya Kadbhane	S Kadbhane
23	23	Aditi Dhanawade	A Dhanawade	55	Shital Kardile	S Kardile
24	24	Nikita Dhanawate	N Dhanawate	56	Pranjal Katkar	P Katkar
25	25	Dhanshri Dhawale	D Dhawale	57	Manisha Kevat	M Kevat
26	26	Ritika Dhonge	R Dhonge	58	Pratiksha Kimbahune	P Kimbahune
27	27	Sanika Dhore	S Dhore	59	Pratiksha Kothawale	P Kothawale
28	28	Shital Dindewad	S Dindewad	60	Rutika Kshirsagar	R Kshirsagar
29	29	Akanksha Doiphode	A Doiphode	61	Vaishnavi Labade	V Labade
30	30	Harshada Dolare	H Dolare	62	Pranjal Landge	P Landge
31	31	Sakshi Gade	S Gade	63	Pranjal Lokhande	P Lokhande
32	32	Nikita Gadhave	N Gadhave	64	Kalyani Madake	K Madake



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Students present for demonstration of microwave oven

SR. NO	ROLL NO.	Name	SIGN	ROLL NO.	Name	SIGN
	65	Utkarsha Mahajan	<i>U Mahajan</i>	97	Harshita Singh	<i>H Singh</i>
1	66	Gayatri Mahamuni	<i>G Mahamuni</i>	98	Rutuja Sonawane	<i>R.S.</i>
2	67	Ashwini Mohite	<i>A Mohite</i>	99	Siddhi Sonawane	<i>S.Sonawane</i>
3	68	Sayali More	<i>S More</i>	100	Vaishnavi Sutar	<i>V Sutar</i>
4	69	Shravani Mule	<i>S Mule</i>	101	Pranjal Taware	<i>P Taware</i>
5	70	Anushka Nagare	<i>A Nagare</i>	102	Punam Thigale	<i>P Thigale</i>
6	71	Pratiksha Nale	<i>P Nale</i>	103	Vaibhavi Umap	<i>V Umap</i>
7	72	Prerana Nandkhile	<i>P Nandkhile</i>	104	Srushti Vidhate	<i>S Vidhate</i>
8	73	Renuka Padavale	<i>R Padavale</i>	105	Prachi Wadekar	<i>P Wadekar</i>
9	74	Suman Padwal	<i>S Padwal</i>	106	Vaishali Wagh	<i>V Wagh</i>
10	75	Amita Pakhare	<i>A Pakhare</i>	107	Sakshi Waghmare	<i>S Waghmare</i>
11	76	Pradnya Palaskar	<i>P Palaskar</i>	108	Vaishnavi Waghmare	<i>V Waghmare</i>
12	77	Kalyani Pandit	<i>K Pandit</i>	109	Tanaya Walse	<i>T Walse</i>
13	78	Sneha Pansare	<i>S Pansare</i>	110	Sejal Walunj	<i>S Walunj</i>
14	79	Pratibha Parhad	<i>P Parhad</i>	111	Bhakare Mayuri	<i>B Mayuri</i>
15	80	Nikita Parve	<i>N Parve</i>	112	Bhangale Vrushali	<i>B Vrushali</i>
16	81	Janhavi Pasmе	<i>J Pasmе</i>	113	BijjaSampada	<i>B Sampada</i>
17	82	Sakshi Pathare	<i>S Pathare</i>	114	Borate Nikita	<i>N Nikita</i>
18	83	Bhagyashri Patil	<i>B Patil</i>	115	Choudhary Payal	<i>P Choudhary</i>
19	84	Kirti Patil	<i>K Patil</i>	116	Date varsha	<i>D Varsha</i>
20	85	Vaishnavi Patil	<i>V Patil</i>	117	Gavle Shruti	<i>G Shruti</i>
21	86	Akshata Pawar	<i>A Pawar</i>	118	Jadhav Jyoti	<i>J Jadhav</i>
22	87	Priyanka Pharate	<i>P Pharate</i>	119	Jaiswal Janhavi	<i>J Janhavi</i>
23	88	Divya Rane	<i>D Rane</i>	120	KabneAkankasha	<i>K Akankasha</i>
24	89	Prachi Ranjane	<i>P Ranjane</i>	121	Manekar Sharayu	<i>M Sharayu</i>
25	90	Ankita Rathod	<i>A Rathod</i>	122	Mavkar Rutuja	<i>M Rutuja</i>
26	91	Divya Rathod	<i>D Rathod</i>	123	Pawar Nikita	<i>N Pawar</i>
27	92	Prajakta Salunke	<i>P Salunke</i>	124	Salunkhe Sakshi	<i>S Salunkhe</i>
28	93	Anagha Saste	<i>A Saste</i>	125	Salve Devyani	<i>S Devyani</i>
29	94	Siddhi Sawal	<i>S Sawal</i>	126	Sangade Varsha	<i>S Sangade</i>
30	95	Aishwarya Selsurekar	<i>A Selsurekar</i>	127	Saste Neha	<i>N Saste</i>
31	96	Aditi Shevkari	<i>A Shevkari</i>	128	Sable Devyani	<i>S Devyani</i>



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PES MODERN COLLEGE OF PHARMACY
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Approach to Community Pharmacy

Yogesh Kale

Speaker



Date: 19/09/2021

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Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

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Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

REPORT ON GUEST LECTURE

The guest lecture was arranged in Modern college of pharmacy for ladies, Moshi Pune at 19th Sept 2021.

Chief Guest and imminent speaker: Mr. Yogesh Sudam Kale, Proprieter of Arnav pharmaceuticals, ltd Pune

Date: 19th Sept 2021.

Time: 10:00am-11.00 am

Venue: Online mode Zoom(Due to Covid-19)

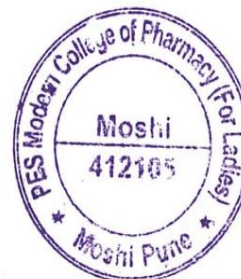
The guest lecture was held on 19th Sept 2021 in Modern college of pharmacy (L), Moshi, Pune on the Topic of **"Approach to community pharmacy-An overview"**. The Students of F.Y and S.Y. B. Pharm were joined by the shared link of zoom.

Mr.Yogesh S. Kale was the chief guest and imminent speaker who is working as proprieter of Arnav pharmaceuticals ltd since 15 years.

He guided the students to identify the key skills in yourself. He motivated and guide the students for Handling, managing of firm (pharmacy). He guided the students about licensing procedure,Documentation required for wholesale and retails, New registration of pharmacy, renewal procedure of license

The session was interactive and students were satisfied to listen the thoughts.

The Arranged guest lecture was motivated and inspirational.



Criterion 3 - Research, Innovations and Extension



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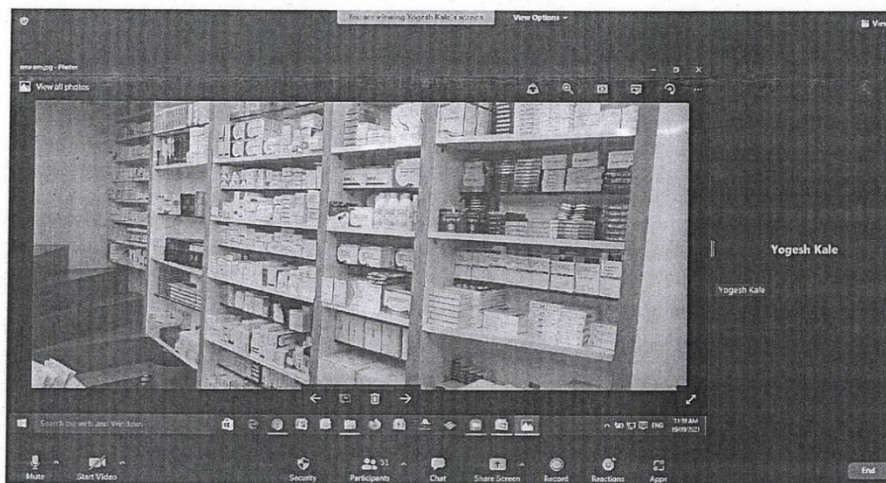
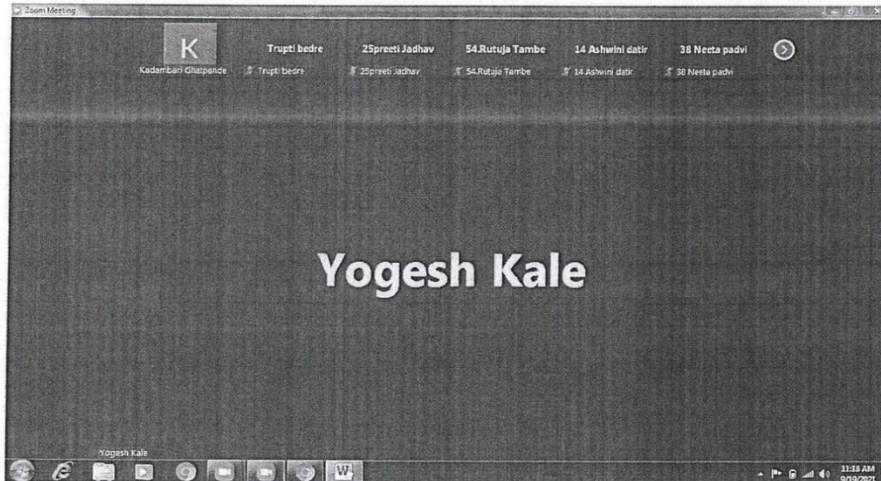
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Guest lecture by Yogesh Kale on 19/09/2021

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**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES),
MOSHI, PUNE**



**WORKSHOP ON
DEMONSTRATION OF TRINOCULAR
MICROSCOPE**

**TRAINER
Pallavi Kakade**

25-09-2021



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Business Council P.E. Society, Pune

Report

The demonstration session of trinocular microscope was arranged on 25/09/2021, Friday at 04:00 pm for students of final Year B. Pharm.

This demonstration session served as a platform for students to gather knowledge of pharmaceutical sciences with emerging trends and innovative approaches. The demonstration session is taken as an effective and developmental practice to ensure that students will aware of novel approaches which can be used in Formulation and development, Research and Development etc.

In this demonstration session, comprehensive overview of trinocular microscopes, highlighting their components, applications, advantages, and significance in various fields. The enhanced imaging capabilities and versatility make them a valuable asset in both research and practical applications.

The outcome of the demonstration:

4. Students learnt the components of Trinocular microscopes
5. Students understood high-quality visual observations while simultaneously recording images makes them indispensable for research, diagnostics, and quality control.
6. Students studied applications of Trinocular microscopes

PGK



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Demonstration of Trinocular microscopes

Introduction

Trinocular microscopes are a powerful tool in scientific research and observation. They offer the benefits of a binocular microscope, allowing for comfortable viewing with depth perception, with the added functionality of a third eyepiece port. This third port is specifically designed to connect a camera, enabling image capture and video recording of the specimen under observation.

Demonstration

The demonstration of a trinocular microscope would typically involve the following steps:

1. **Microscope Setup:** The instructor would first introduce the different parts of the microscope, including the eyepieces, objective lenses, stage, condenser, illuminator, and coarse and fine focus knobs.
2. **Binocular Observation:** Participants would be guided on how to adjust the interpupillary distance and diopter settings to achieve comfortable binocular viewing. They would then practice focusing on a prepared slide using the coarse and fine focus knobs.
3. **Camera Attachment:** The instructor would demonstrate how to attach a digital camera to the trinocular port. This might involve connecting the camera to a laptop or computer for real-time image viewing.
4. **Image Capture and Recording:** Participants would be shown how to capture still images and record videos of the specimen using the microscope camera software. Basic image editing functions might also be introduced.
5. **Applications:** The instructor would discuss the various applications of trinocular microscopes in different fields, such as biology, medicine, geology, and materials science. Examples of how captured images and videos can be used for research, documentation, and educational purposes could be provided.

Additional Considerations

- The demonstration can be tailored to the specific audience, such as students, researchers, or professionals in a particular field.
- Different types of specimens can be used to showcase the capabilities of the trinocular microscope.
- Time can be allowed for participants to explore the microscope and camera functions on their own.

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Snapshots of Demonstration Session:



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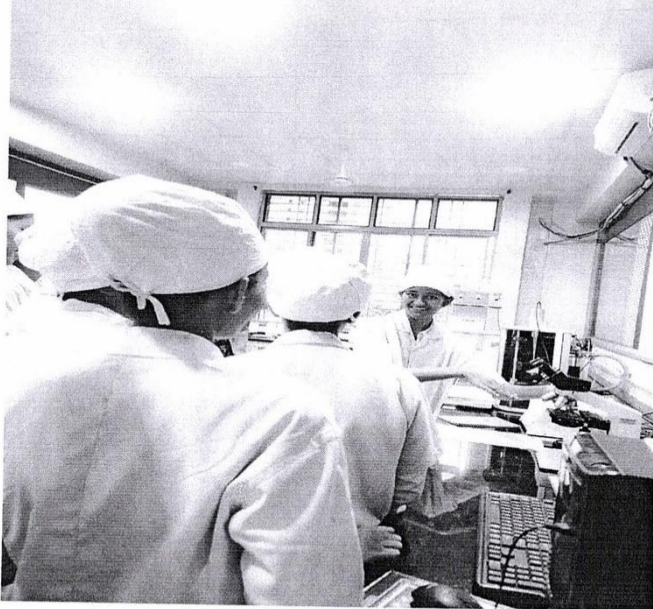
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Tal. Haveli, Dist. Pune-412 105.

Demonstration of Trinocular microscope on 25/09/2021.

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Demonstration of binocular Microscope

PES's, Modern college of Pharmacy For Ladies, Moshi Pune								
1. Y. B. Pharm Roll Call List 2020-2021 (Sem V)								
Batch A			Batch B			Batch C		
Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
1.	Shwetali Alhat	<i>Alhat</i>	24	Bhagyashree Khaire	<i>Khair</i>	47	Shubhada Chavan	<i>Chavan</i>
2.	Raksha Amle	<i>Amle</i>	25	Sanskriti Khedkar	<i>Khedk</i>	48	Siddhi Ghosalkar	<i>Ghosalk</i>
3.	Shruti Asawale	<i>Asawale</i>	26	Gauri Khot	<i>Khot</i>	49	Jinalkumari Sirvi	<i>Sirvi</i>
4.	Manasi Baidmuttha	<i>Baidmuttha</i>	27	Monika Kute	<i>Kute</i>	50	Snehal Kamate	<i>Kamate</i>
5.	Shraddha Bhagwat	<i>Bhagwat</i>	28	Aditi Lakade	<i>Lakade</i>	51	Vaishnavi Sukre	<i>Sukre</i>
6.	Mayuri Bhosale	<i>Bhosale</i>	29	Payal Maravade	<i>Maravade</i>	52	Snehal Tarade	<i>Tarade</i>
7.	Snehal Borude	<i>Borude</i>	30	Juveriya Momin	<i>Momin</i>	53	Aishwarya Todkar	<i>Todkar</i>
8.	Anjali Chavan	<i>Chavan</i>	31	Yashda Mungase	<i>Mungase</i>	54	Sushama Ture	<i>Ture</i>
9.	Nikita Deokar	<i>Deokar</i>	32	Divya Naik	<i>Naik</i>	55	Rutuja Yadav	<i>Yadav</i>
10.	Priyanka Dumbare	<i>Dumbare</i>	33	Samridhhi Pachpor	<i>Pachpor</i>	56	Urmila Yewale	<i>Yewale</i>
11.	Snehal Gaikwad	<i>Gaikwad</i>	34	Ashwini Palwe	<i>Palwe</i>	57	Swapnali Zadke	<i>Zadke</i>
12.	Rutuja Gawade	<i>Gawade</i>	35	Mayuri Pandit	<i>Pandit</i>	58	Pooja Bomshete	<i>Bomshete</i>
13.	Sakshi Ghule	<i>Ghule</i>	36	Anuja Patil	<i>Patil</i>	59	Asha Chavan	<i>Chavan</i>
14.	Akshata Giri	<i>Giri</i>	37	Komal Patil	<i>Patil</i>	60	Neha Ganje	<i>Ganje</i>
15.	Anjalee Gite	<i>Gite</i>	38	Piyusha Pawar	<i>Pawar</i>	61	Shrutika Gunjal	<i>Gunjal</i>
16.	Shrutika Harale	<i>Harale</i>	39	Sayali Pawar	<i>Pawar</i>	62	Priyanka Kale	<i>Kale</i>
17.	Pranita Jadhav	<i>Jadhav</i>	40	Pooja Pharate	<i>Pharate</i>	63	Pooja Kamalu	<i>Kamalu</i>
18.	Vaishnavi Jadhav	<i>Jadhav</i>	41	Durga Pote	<i>Pote</i>	64	Shraddha Kamble	<i>Kamble</i>
19.	Aishwarya Kadam	<i>Kadam</i>	42	Preeti Sakore	<i>Sakore</i>	65	Rajashri Karkhile	<i>Karkhile</i>
20.	Pallavi Karad	<i>Karad</i>	43	Parnika Rajput	<i>Rajput</i>	66	Rohini Sante	<i>Sante</i>
21.	Shrutika Karpe	<i>Karpe</i>	44	Muskan Shah	<i>Shah</i>	67	Arti Shejul	<i>Shejul</i>
22.	Apurva Kate	<i>Kate</i>	45	Sayali Shelar	<i>Shelar</i>	68	Meera Vaidya	<i>Vaidya</i>
23.	Supriya Khade	<i>Khade</i>	46	Akanksha Shinde	<i>Shinde</i>	69	Akshada Sable	<i>Sable</i>



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Business Council P.E. Society, Pune



**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES), MOSHI,
PUNE**



**Guest Lecture on
Key for formulation design**

Guest Speaker
Mr. Rupesh Saidane
Research scientist,
Abott healthcare Pvt. Ltd., Mumbai

Date: 04/12/2021

Venue: Seminar Hall





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Business Council P.E. Society, Pune

Ref. MCPL/LET/ 3 3 7

Date: 02/12/2021

INVITATION LETTER

To,

Mr. Rupesh Saindane

Research scientist,
Abbott healthcare Pvt. Ltd.,
Mumbai.

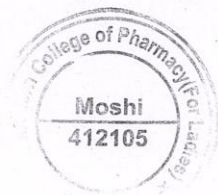
Subject: Invitation as a Resource person for delivering industry expert talk on "Key for formulation design"

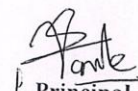
Dear sir,

Progressive Education Society has started **Modern College of Pharmacy (for Ladies), Moshi**, Dehu-Alandi road, Borhadewadi, Tal.-Haveli, Pune – 412105 in 2004. It's the only college in Maharashtra which is running D.Pharm, B.Pharm, M.Pharm and Ph.D. courses exclusively for girls students. We are catering currently 525 girl students. Our college is accredited by NBA and NAAC. It's a great pleasure to inform you that the college is organizing industry expert lecture on 04 December 2021 by online mode.

Looking at the expertise in formulation design, we strongly feel that you would be able to guide our girl students. We take opportunity to invite you, as a **resource person** of a guest lecture and to deliver a talk on "**Key for formulation design**" in online mode at 05:00 PM to 06:00 PM. We will be highly obliged, if you spare your valuable time for us.

Thanking you.




Principal

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• Tel. 7276078868 Email.: pharמושiwomen@yahoo.com Website.: www.mcpledu.org



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Business Council P.E. Society, Pune

Ref. MCPL/LET/Ref No. 337A

Date: 04/12/2021

THANKING LETTER

To,

Mr. Rupesh Saindane
Research scientist,
Abbott healthcare Pvt. Ltd.,
Mumbai.

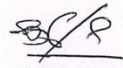
Subject: Greetings on your lecture on "Key for formulation design".

Dear Sir,

We are very thankful to you for accepting our invitation as a resource person. Your experience and guidance will definitely help students for formulation design, selection of drug and excipient, drug excipient compatibility study and stability study. Thank you for highlighted problems occurs during formulation and development. We are indebted for sharing your experience and sparing your valuable time. It was a great pleasure to have you with us; we will look for the co-operation in future.

Thanking you.




Dr. S. N. Dhole

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• Tel. 7276078868 Email.: pharmoshiwomen@yahoo.com Website.: www.mcpl.edu.org



21-26

Modern College of Pharmacy (for ladies),



Moshi, Pune - 412105

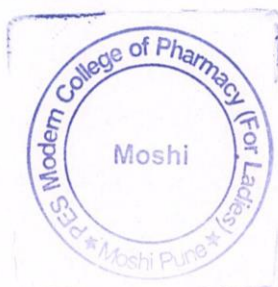
SUMMARY

- Summary of Guest lecture on topic - 'Key for formulation design'.
- Guest lecture was organized on 04/12/2021 at 05.00 PM for third, final year B. Pharmacy and Second year M. Pharmacy.
- **Speaker:** Mr. Mr. Rupesh Saindane

Lecture starts with introduction of speaker. Initially he explained pharmaceutical market in world and India. He gave detail explanation on selection of research topic and technical information on API and excipients. He has highlighted requirements of regulatory authorities of various countries. He also elaborated impact on various physicochemical properties on behavior of drug and dosage form with respect pharmacokinetics and dynamics. He has focused on ICH stability studies in detail.

Vote of thanks given by Asst. Prof. Sneha Patil.

The session was concluded by appreciation of speaker.



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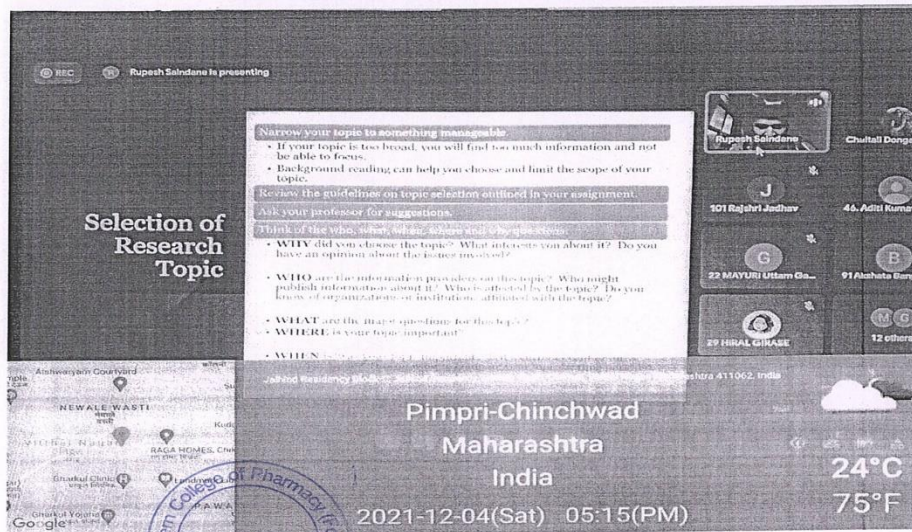
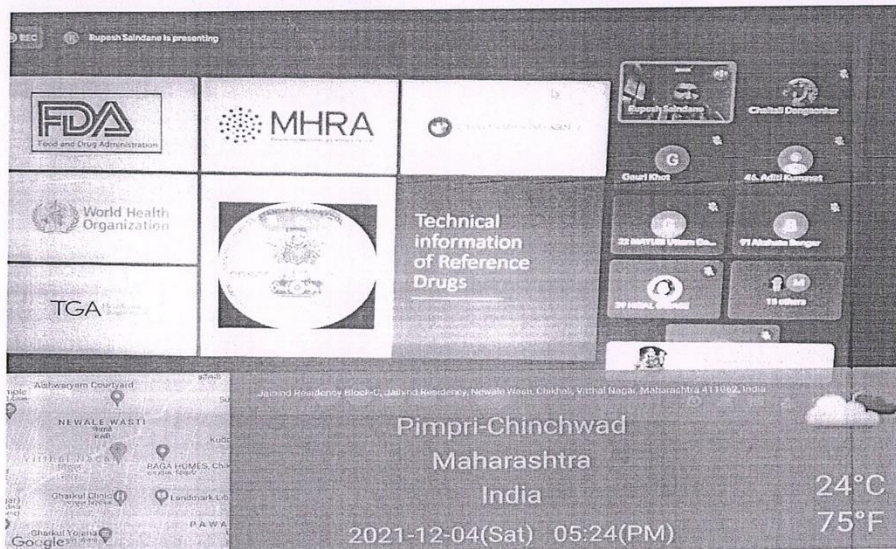
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Photos



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Attendance



Guest lecture by Rupesh Saindane on 04/12/2021

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**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES), MOSHI,
PUNE**



**Guest Lecture on
Career opportunities in clinical
research**



**Guest Speaker
Mr. Dhanraj Jadhav,
Principal Auditor, Syneos Health**

Date: 14/12/2021

Venue: Seminar Hall





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Business Council P.E. Society, Pune

Date-9/12/2021

1 CPL / Let / 2021 / Ref - 347 (A)

To,

Mr. Dhanraj Jadhav,

Principal Auditor,

Senior QC Auditor,

Quality and Compliance Consulting at Sincos Health.

Subject: Regarding Invitation for delivering a guest lecture on "Career Opportunity in Clinical Research".

Dear Sir,

This is in reference to our discussion regarding guest lecture on topic "Career Opportunity in Clinical Research for Pharmacy students".

We are pleased to introduce that, PES Modern College of Pharmacy (For Ladies), Moshi, Pune is established in 2004 catering more than 400 women students. It is located in PCMC. We are running D. Pharm, B.Pharm, M.Pharm and Ph.D courses.

We will be extremely obliged if you could be a part of our endeavour of making the untapped talent shines. We would like to invite you for a guest lecture on topic "Career Opportunity in Clinical Research for Pharmacy students". As per our telephonic discussion we are keen to organize guest lecture Online mode on 14th December, 2021 at 3.00 pm. We would be glad to provide you with any further information and assistance in this regard.

We are looking forward to your participation in the event.

Thanking you,




Principal

PRINCIPAL
PES Modern College of Pharmacy
(For Ladies)
Borhadewadi, At/Post Moshi,
Tal.Haveli, Dist.Pune - 412105

• Borhadewadi, Dehu - Alandi Road, A/P. Moshi, Tal - Haveli, Dist. - Pune - 412 105 M.S. (INDIA)
• Tel. 7276078868 Email.: pharמושiwomen@yahoo.com Website.: www.mcpledu.org



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PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. S. N. Dhole
M. Pharm., Ph. D.
Principal

Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Ref: 352 (A)

Date: 14/12/21

To,

Mr. Dhanraj Jadhav,

Principal GCP Auditor,

Pune

Sub: Thanking letter for conducting guidance session

Dear Sir,

We are thankful to you for conducting guidance session for second, third, final year and M. Pharm students on "Career Opportunity in Clinical Research". On 14th December, 2021 at 3.00 pm. Your guidance will certainly help them as you gave deep insights into the topic and also revealed some interesting facts.

We are highly obliged as you spend your valuable time and shared knowledge. Your presence has added value to our institute. We are sure that your valuable assistance will always be with us in future.

Looking forward for the same cooperation in future.

Wishing you a great year ahead.

Thanking you,

Yours Truly,

Principal

Dr. S.N.Dhole



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M. Pharm., Ph. D.
Principal

PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

Prof. Dr. G. R. Ekbote.
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Date:14/12/21

REPORT OF WEBINAR BY CAREER GUIDANCE CELL COMMITTEE

The webinar was arranged in PES Modern College of Pharmacy for (Ladies),
Moshi

Date-14/12/2021

Time-03.00-4:30 Pm

Mode –Online Google Meet

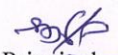
Convey by-Ms. Rutuja Aher

Speaker Name – Mr.DhanrajJadhav

The Topic of webinar was “Career Opportunity in Clinical Research”.
Google Meet link has shared before 15 min. Mr.DhanrajJadhav was speaker
working as Principal Auditor, Senior QC Auditor, Quality and Compliance
Consulting at Sineos Health. The Session was started with Floral Welcome of
Mr.DhanrajJadhav.

He Started Session by Presentation about what is Clinical Research .Why you
should consider a career in Clinical research and Different type of job
opportunity in Clinical research.He has also focused on current opportunities
and job growth potential and salary opportunities after B.pharm and M Pharm.
He has also guided students regarding how to make good clinical profession. He
has interact with students regarding their queries about topic .The session was
interactive and student were satisfied to listen the thought.




Principal

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Business Council P.E. Society, Pune



**PES MODERN COLLEGE OF
PHARMACY (For Ladies)
MOSHI.**



Webinar on
Career Opportunity in Clinical Research

Guest Speaker

Mr. Dhanraj Jadhav

Principal Auditor, Senior QC Auditor, Quality and Compliance consulting at
Sineos Health

Tuesday, 14 December 2021,
3:00pm to 4:30pm

Career Guidance Cell Incharge
Ms. Rutuja Aher

Principal
Prof. Dr. S. N. Dhole



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Guest lecture by Dhanraj Jadhav on 14/12/2021

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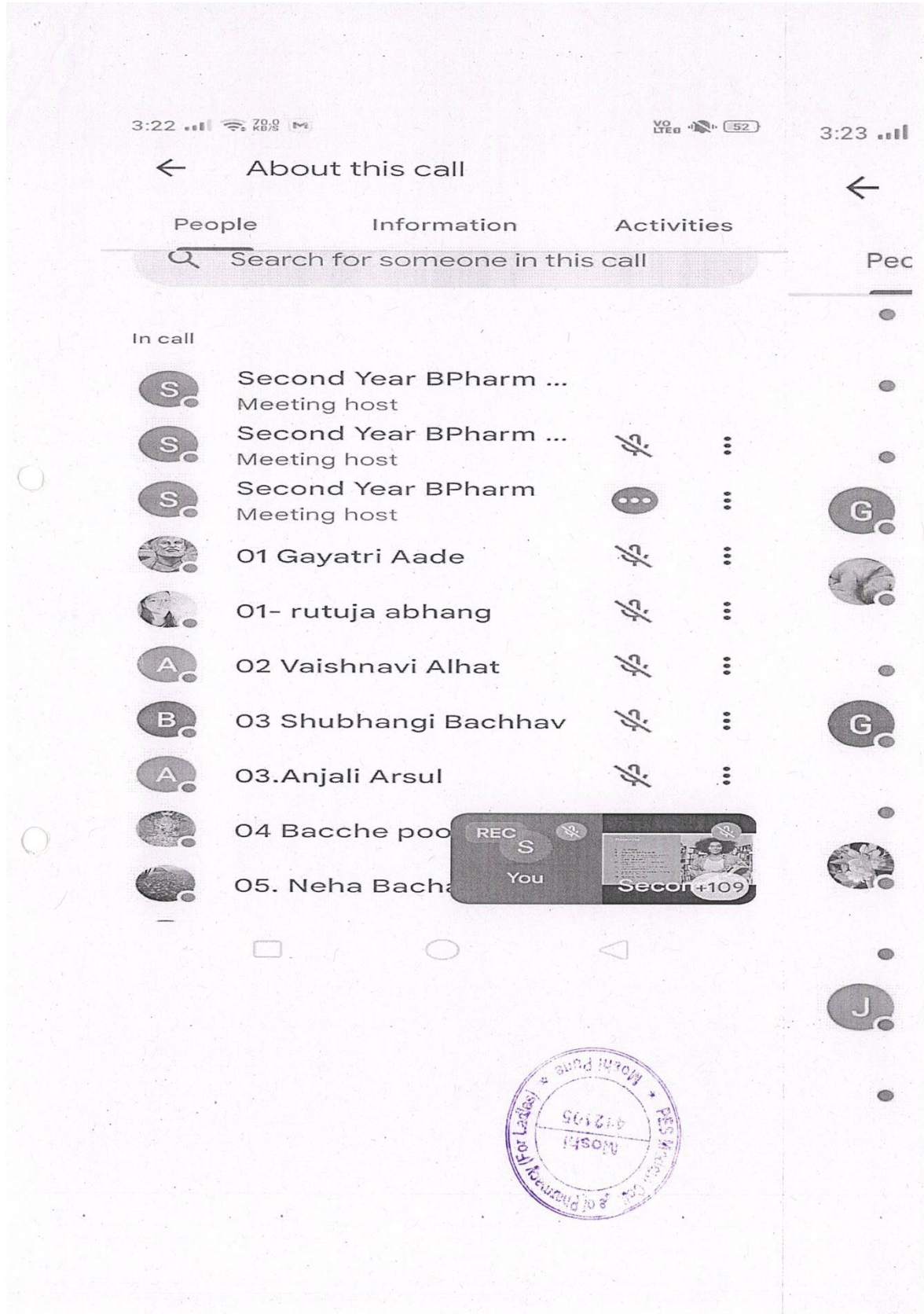
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Business Council P.E. Society, Pune



**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES), MOSHI,
PUNE**



**Guest Lecture on
Steps for stating up your business**

**Guest Speaker
Vikrant Bhujbal
Business Director**

Date: 21/01/2022

Venue: Seminar Hall





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Prof. Dr. S. R. Dhole
M. Pharm., Ph. D.
Principal

Date: Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

MCPL/2022/Let/Ref.No. 218

Date - 21/01/2022

To,

Mr. Vikrant Bhujbalrao ,

Director of a business incubation company,

YourSarthi.

Sub: Thanking letter for conducting guidance session

Dear Sir,

We are thankful to you for conducting guidance session for second, third, final year and M. Pharm students on "Steps of starting up your business". On 21st January, 2022 at 11.00 am Your guidance will surely help them to be a successful entrepreneur in future as you gave deep insights into the topic and also revealed some interesting facts.

We are highly obliged as you spend your valuable time and shared knowledge. Your presence has added value to our institute. We are sure that your valuable assistance will always be with us in future.

Looking forward for the same cooperation in future.

Wishing you a great year ahead.

Thanking you,

Yours Truly,

Principal

Dr. S.N.Dhole

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Business Council P.E. Society, Pune

REPORT OF WEBINAR BY ENTREPRENEUR CELL COMMITTEE

The webinar was arranged in PES Modern college of pharmacy for ladies Moshi at
21/1/2022

- Date : 21/1/2022
- Time : 11.00 am.
- Mode : Online Goole meet
- Convened by : Ms. Pallavi G. Kakade

Chief Guest :- Mr. Vikrant Bhujbalrao

The Webinar was held on 21/1/2022 in PES Modern college of pharmacy for ladies moshi in topic "Steps of Starting up your Business" Goole Meet link has shared before 15 min.Mr. Vikrant Bhujbalrao was the chief guest working as a director of a business incubation company 'Your Sarthi'The session was started with a floral welcome of Mr. Vikrant Bhujbalrao. He started session by presentation about requisite of entrepreneur. He has also covered the topics such as what kind of challenges will be there to start a new business . He has focused on current opportunities available in pharmaceutical sector for a new business. He has interacted with students regarding their queries about a entrepreneurship the session was interactive and student were satisfied to listen the thought.




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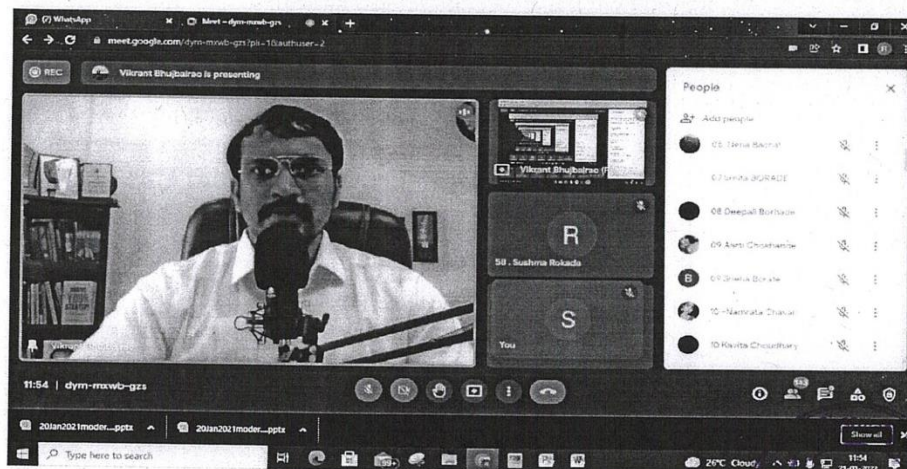


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Business Council P.E. Society, Pune



Guest lecture by Vikrant Bhujabalrao on 21/01/2022

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**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES),
MOSHI, PUNE**



**WORKSHOP ON
DEMONSTRATION OF BROOKFIELD
VISCOMETER**

TRAINER

CHAITALI C. DONGAONKAR

12/02/2022



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(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Date:12/02/2022

Report

Introduction: A demonstration of the Brookfield viscometer was conducted for students to enhance their understanding of viscosity measurement in various fluids. The session aimed to provide practical insights into the operational principles and applications of the Brookfield viscometer in both academic and industrial settings.

Demonstration Setup: The demonstration was set up in the laboratory, where the Brookfield viscometer, along with various fluid samples and necessary accessories, was displayed. The viscometer used for the demonstration was the Brookfield DV-II+ Pro, known for its reliability and accuracy in measuring the viscosity of liquids.

Procedure:

- **Introduction to the Viscometer:**

- The session began with an introduction to the Brookfield viscometer, covering its history, importance in viscosity measurement, and the basic components such as the motor unit, spindle, and control panel.
- The students were informed about the different types of spindles and their applications based on the viscosity range of the fluid being tested.

- **Preparation of Samples:**

- Various fluid samples, including water, glycerine, and oil, were prepared to demonstrate the viscometer's versatility in handling fluids with different viscosities.
- The samples were poured into appropriate containers, ensuring that each fluid's temperature was controlled and recorded, as viscosity is temperature-dependent.

- **Calibration and Setup:**

- The instructor demonstrated the calibration process, emphasizing the importance of calibrating the viscometer to ensure accurate measurements.
- The viscometer was then set up with the appropriate spindle for each fluid sample. The students observed the careful attachment of the spindle and the immersion of the spindle into the fluid up to the specified level.



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- **Measurement Process:**
- For each sample, the instructor turned on the viscometer and selected the appropriate speed settings.
- The viscometer's digital display showed the viscosity readings in real-time. The students noted the viscosity values and observed the changes as different spindles and speeds were used.
- The importance of factors such as shear rate and temperature control during viscosity measurement was discussed.
- **Data Interpretation:**
- The collected data were analyzed, and the viscosity values of different fluids were compared.
- The instructor explained how to interpret the results and the significance of viscosity in various industrial applications, such as in the formulation of pharmaceuticals, cosmetics, and food products.

Conclusion: The Brookfield viscometer demonstration provided the students with hands-on experience and a deeper understanding of viscosity measurement techniques. The interactive session allowed them to observe the practical aspects of using a viscometer, reinforcing theoretical knowledge gained in the classroom. By the end of the demonstration, the students were able to comprehend the operational principles of the Brookfield viscometer and appreciate its applications in various scientific and industrial fields.



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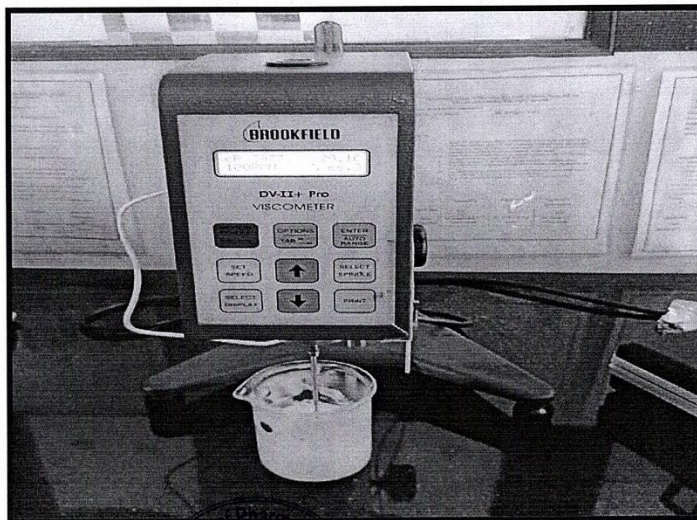
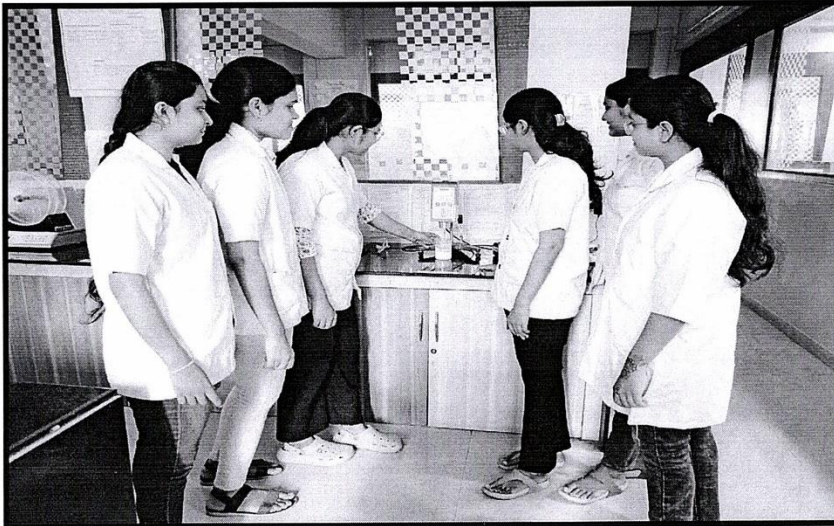


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Snapshots of Demonstration Session:



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Demonstration of Brookfield Viscometer on 12/02/2022

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(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Brookfield Viscometer

Attendance

Sr. No.	Name	Sign
1	Neha Autade	<i>Neha Autade</i>
2	Rushali Bedjawalge	<i>Rushali</i>
3	Rutuja Bhangare	<i>Bhangare</i>
4	Shruti Burad	<i>Shruti</i>
5	Supriya Huljute	<i>Huljute s.</i>
6	Komal Kawale	<i>Komal</i>
7	Aishwarya Kharabi	<i>A. Kharabi</i>
8	Shivanjali Madane	<i>Madane</i>
9	Karishma Markad	<i>Markad</i>
10	Harshda Narhare	<i>Narhare</i>
11	Jyoti Shrangare	<i>Shrangare</i>
12	Dakshayani Swami	<i>D. Swami</i>
13	SimranValecha	<i>Simran</i>
14	Anjali Wadhokar	<i>Anjali</i>
15	Simran Yadav	<i>Simran</i>
16	Shraddha Chate	<i>Chate</i>
17	Dhanashree Kherade	<i>D. Kherade</i>
18	Tejasvini Neve	<i>Tejasvini</i>
19	Manasi Rokade	<i>Rokade</i>
20	Priyanka Sutar	<i>Priyanka</i>
21	Anupa Wagh	<i>Anupa</i>



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Business Council P.E. Society, Pune



PES MODERN COLLEGE OF PHARMACY
(FOR LADIES), MOSHI, PUNE



Workshop On Chemical Safety

— **Mr. Munde M.K**

Trainer

Date: 18/02/2022

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PES MODERN COLLEGE OF PHARMACY (FOR LADIES),
MOSHI, PUNE

Supportive Staff/ Non-teaching programme

All Non-teaching staff were attended the training programme on "Chemical Safety" in Pharmaceutical Chemistry lab on Friday 18 February at 11:30 am

Date : 18/02/2022

Time : 11:00 pm -12:30pm

The training programme on "Chemical Safety" was conducted to enhance the awareness and knowledge of staff regarding the safe handling, storage, and disposal of chemicals in the workplace. The training programme was attended by 20 participants from various departments within the College.

The specific objectives of the training programme were:

- To educate participants about the potential hazards of different chemicals commonly used in the workplace.
- To familiarize participants with safety data sheets (SDS) and proper labeling of chemicals.
- To provide practical guidance on the correct handling, storage, and transportation of chemicals.
- To train participants in emergency response procedures in the event of chemical spills or accidents.
- To raise awareness about personal protective equipment (PPE) and its proper usage.

The training sessions were conducted through a combination of lectures, interactive discussions, practical demonstrations, and hands-on exercises. Case studies and real-life examples were used to illustrate the importance of chemical safety practices.



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Business Council P.E. Society, Pune

Topics Covered:

- Hazardous Properties of Chemicals
- Chemical Classification and Labeling
- Safety Data Sheets (SDS) Interpretation
- Proper Handling and Storage of Chemicals
- Emergency Response and Evacuation Procedures
- Personal Protective Equipment (PPE) Usage
- Workplace Hygiene and Housekeeping

The training programme on "Chemical Safety" successfully achieved its objectives by enhancing the knowledge and awareness of participants. The acquired skills will contribute to creating a safer work environment and reducing the risks associated with chemical handling.


Co-ordinator
(M.K. Munde)


IQAC Co-ordinator


Principal
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PES Modern College of Pharmacy
(For Ladies)
Borhadewadi, AI/Post-Moshi,
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M. Pharm., Ph. D.
Principal

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Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Attendance during training

Topic of Training: "Chemical Safety"

Date: 18/02/2022

Time: 11.00 am -12:30pm

Sr. No	Name of Non-teaching Staff	Sign
1.	Nishant R. Kadam	
2.	Vinod V. Tile	
3.	Pankaj Zende	
4.	Dnyanesh Tamburke	
5.	Shashikant J. Jadhav	
6.	Gayatri. N. Patil	
7.	Rashmi N. Salvi	
8.	Sawant Nilam V.	
9.	Ganesh Kadam	
10.	Pallavi Patil	
11.	Keshav J. Ghanwat	
12.	J. A. Ahar	
13.	Sonita P. Asekar	
14.	Jyotirmund Hiru	
15.	Maladeni Sadatbab	
16.	Pravin S. Patole	
17.	S.S. Bhise	
18.	GR. Shinde	
19.	Vina Gaikwad	
20.	N.A. Wafar	

Co-ordinator
(M.K. Munde)

IQAC Co-ordinator



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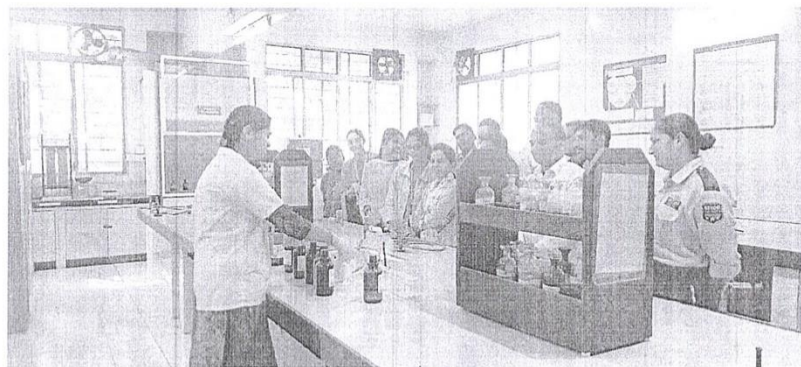
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Supportive Staff/ Non-teaching programme

“ Chemical Safety”



Training Programme on Chemical Safety, 18/02/2022

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HANDS ON TRAINING ON FLAME PHOTOMETER: DEMONSTRATION

22nd FEBRUARY 2022

Co-Ordinator: P. B. Kothawade

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Report

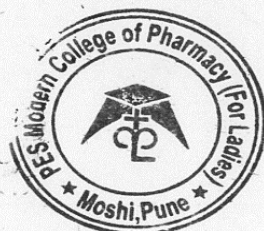
The demonstration session of Flame Photometer was arranged on 22/02/2022, Tuesday at 03:00 pm for students of Final Year B. Pharm.

This demonstration session served as a platform for students to gather knowledge of pharmaceutical sciences with emerging trends and innovative approaches. The demonstration session is taken as an effective and developmental practice to ensure that students will aware of novel approaches which can be used in analytical method development, Research and Development etc.

In this demonstration session, the overall principle, working as well as applications of Flame Photometer, are explained to students. Followed by an introduction of the entire components of flame photometer and its stepwise working in detail.

The outcome of the demonstration:

1. Students learnt the parts of Flame Photometer.
2. Students understood Flame Photometer Principle.
3. Students studied applications of Flame Photometer.





Principle and Working of Flame Photometer

Principle:

Flame photometry or flame emission spectroscopy is an atomic emission technique. There is no need for light source. Flame serves both as an atomizer and excitation source. It is suitable for qualitative and quantitative determination of several cations, especially for metals that are easily excited to higher energy levels at flame temperature. These metals are Na, K, Ca,

In this technique, first aerosols are formed from sample solution by a jet of compressed gas. This process is called nebulization. The design of the nebulizer is shown in Figure 1. Then the flow of the gas carries the aerosols into a flame where atomization takes place. Atomization is the conversion of sample aerosols into an atomic vapor by flame. When a sample is atomized, a substantial fraction of the metallic constituents are reduced to gaseous atoms and also depending on the temperature of the flame a certain fraction of these atoms are ionized. Then, electrons of the formed atoms are excited to upper state. Light is emitted at characteristic wavelengths for each metal as the electron returns to the ground state.

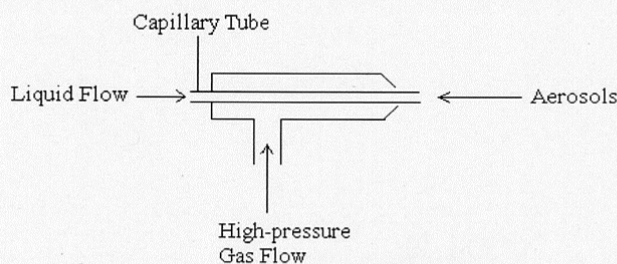
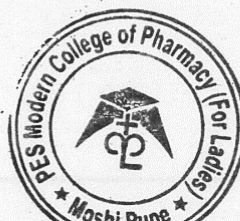


Figure 1. Design of a nebulizer



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Flame is formed by two components: fuel and oxidant. Temperature of the flame changes depending on the fuel and oxidant types and their proportions. In flame photometer generally natural gas is used as a fuel and air is the oxidant. Table 1 lists the different types of fuel, oxidant and the temperature of the flame.

FUEL	OXIDANT	TEMPERATURE, ⁰ C
Natural Gas	Air	1700-1900
Natural Gas	Oxygen	2700-2800
Hydrogen	Air	2000-2100
Hydrogen	Oxygen	2550-2700
Acetylene	Air	2100-2400
Acetylene	Oxygen	3050-3150
Acetylene	Nitrous Oxide	2600-2800

Flame consists of three important regions. These are the primary combustion zone, inner cone region and outer cone (secondary combustion zone). The appearance and the relative sizes of these regions can be changed with the fuel-oxidant ratio. Regions of the flame are shown in Figure 2.



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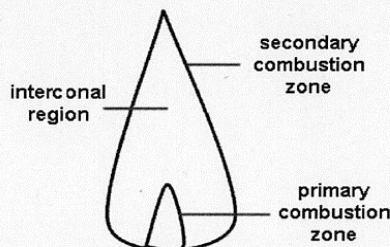


Figure 2. Schematic appearance of flame

The primary combustion zone of the flame is blue in color. In this region, there is no thermal equilibrium. Therefore, it is not used in flame spectroscopy. The interconal region is rich in free atoms and is the most widely used region for the spectroscopy. In the outer cone the products of the inner core are converted to stable molecular oxides.

In flame photometer there are three fundamental systems which are emission, λ -selection and recording. The general flow diagram is shown in Figure 3.

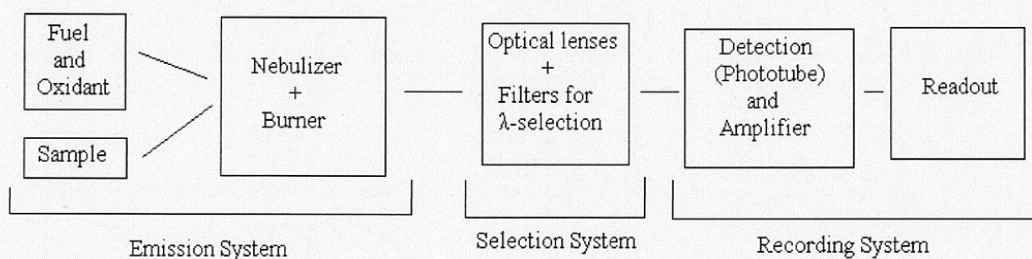
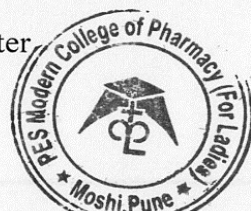


Figure 3. A general scheme of a flame photometer



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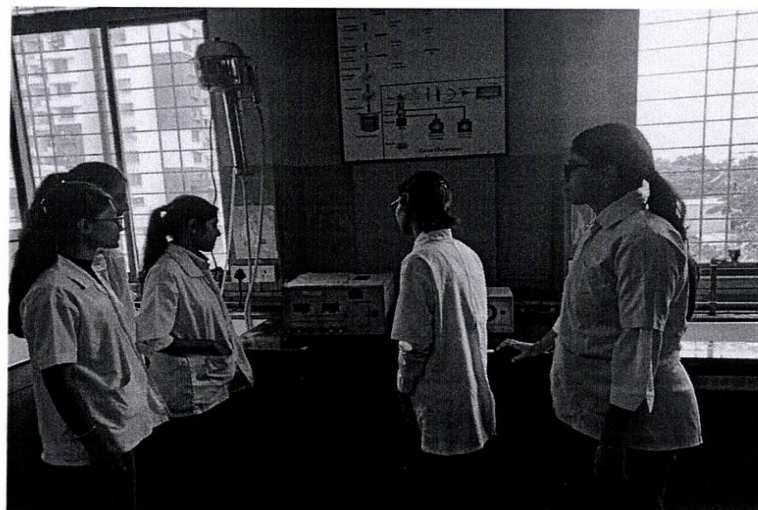


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Snapshots of Demonstration Session:



Demonstration of Flame Photometer on 22/02/2022

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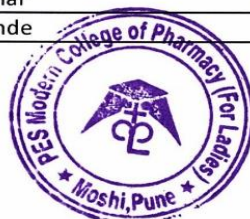
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Sr.No	Student Name		Sign
1	Shwetal	Alhat	<i>Shwetal</i>
2	Raksha	Amle	<i>Raksha</i>
3	Shruti	Asawale	<i>Shruti</i>
4	Manasi	Baidmuttha	<i>Manasi</i>
5	Shraddha	Bhagwat	<i>Shraddha</i>
6	Mayuri	Bhosale	<i>Mayuri</i>
7	Snehal	Borude	<i>Snehal</i>
8	Anjali	Chavan	<i>Anjali</i>
9	Nikita	Deokar	<i>Nikita</i>
10	Priyanka	Dumbare	<i>Priyanka</i>
11	Snehal	Gaikwad	<i>Snehal</i>
12	Rutuja	Gawade	<i>Rutuja</i>
13	Sakshi	Ghule	<i>Sakshi</i>
14	Akshata	Giri	<i>Akshata</i>
15	Anjalee	Gite	<i>Anjalee</i>
16	Shrutika	Harale	<i>Shrutika</i>
17	Pranita	Jadhav	<i>Pranita</i>
18	Vaishnavi	Jadhav	<i>Vaishnavi</i>
19	Aishwarya	Kadam	<i>Aishwarya</i>
20	Pallavi	Karad	<i>Pallavi</i>
21	Shrutika	Karpe	<i>Shrutika</i>
22	Apurva	Kate	<i>Apurva</i>
23	Supriya	Khade	<i>Supriya</i>
24	Bhagyashree	Khaire	<i>Bhagyashree</i>
25	Sanskruti	Khedkar	<i>Sanskruti</i>
26	Gauri	Khot	<i>Gauri</i>
27	Monika	Kute	<i>Monika</i>
28	Aditi	Lakade	<i>Aditi</i>
29	Payal	Maravade	<i>Payal</i>
30	Juveriya	Momin	<i>Juveriya</i>
31	Yashda	Mungase	<i>Yashda</i>
32	Divya	Naik	<i>Divya</i>
33	Samriddhi	Pachpor	<i>Samriddhi</i>
34	Ashwini	Palwe	<i>Ashwini</i>
35	Mayuri	Pandit	<i>Mayuri</i>
36	Anuja	Patil	<i>Anuja</i>
37	Komal	Patil	<i>Komal</i>
38	Piyusha	Pawar	<i>Piyusha</i>
39	Sayali	Pawar	<i>Sayali</i>
40	Pooja	Pharate	<i>Pooja</i>
41	Durga	Pote	<i>Durga</i>
42	Preeti	Sakore	<i>Preeti</i>
43	Parnika	Rajput	<i>Parnika</i>
44	Muskan	Shah	<i>Muskan</i>
45	Sayali	Shelar	<i>Sayali</i>
46	Akanksha	Shinde	<i>Akanksha</i>



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47	Shubhada	Chavan	<u>Chavan</u>
48	Siddhi	Ghosalkar	<u>Ghosalkar</u>
49	Jinalkumari	Sirvi	<u>Sirvi</u>
50	Snehal	Kamate	<u>Kamate</u>
51	Vaishnavi	Sukre	<u>Sukre</u>
52	Snehal	Tarade	<u>Snehal</u>
53	Aishwarya	Todkar	<u>Todkar</u>
54	Sushama	Ture	<u>Ture</u>
55	Rutuja	Yadav	<u>Rutuja</u>
56	Urmila	Yewale	<u>Yewale</u>
57	Swapnali	Zadke	<u>Swapnali</u>
58	Pooja	Bomshete	<u>Bomshete</u>
59	Asha	Chavan	<u>Asha</u>
60	Neha	Ganje	<u>Neha</u>
61	Shrutika	Gunjal	<u>Shrutika</u>
62	Priyanka	Kale	<u>Priyanka</u>
63	Pooja	Kamalu	<u>Pooja</u>
64	Shraddha	Kamble	<u>Shraddha</u>
65	Rajashri	Karkhile	<u>Rajashri</u>
66	Rohini	Sante	<u>Rohini</u>
67	Arti	Shejul	<u>Arti</u>
68	Meera	Vaidya	<u>Meera</u>
69	AKSHADA	SABALE	<u>AKSHADA</u>
70	SHUBHANGI	LOKHANDE	<u>Shubhangi</u>



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**PES MODERN COLLEGE OF
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**WORKSHOP ON
DEMONSTRATION SESSION ON
LYOPHILIZER**

TRAINER

CHAITALI C. DONGAONKAR

25-02-2022



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Report

The demonstration session of Lyophilizer was arranged on 25/02/2022, Friday at 03:00 pm for students.

This demonstration session served as a platform for students to gather knowledge of pharmaceutical sciences with emerging trends and innovative approaches. The demonstration session is taken as an effective and developmental practice to ensure that students will be aware of novel approaches that can be used in Formulation and development, Research and Development etc.

In this demonstration session, the overall concept, as well as applications of freeze drying, are explained to students. Followed by an introduction of the entire components of Lyophilizer and its stepwise work in detail.

The outcome of the demonstration:

1. Students learnt the components of Lyophilizer.
2. Students understood lyophilization techniques.
3. Students studied applications of lyophilization.





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Demonstration of Lyophilizer

Freeze Drying:

Freeze drying is the removal of ice or other frozen solvents from a material through the process of sublimation and the removal of bound water molecules through the process of desorption.

Lyophilization and freeze drying are terms that are used interchangeably depending on the industry and location where the drying is taking place. Controlled freeze drying keeps the product temperature low enough during the process to avoid changes in the dried product's appearance and characteristics. It is an excellent method for preserving a wide variety of heat-sensitive materials such as proteins, microbes, pharmaceuticals, tissues & plasma.

SUBLIMATION:

Sublimation is when a solid (ice) changes directly to a vapor without first going through a liquid (water) phase. Sublimation is a phase change and heat energy must be added to the frozen product for it to occur.

Sublimation in the freeze-drying process can be described simply as:

Freeze - The product is completely frozen, usually in a vial, flask or tray.

Vacuum - The product is then placed under a deep vacuum, well below the triple point of water.

Dry - Heat energy is then added to the product causing the ice to sublime.

The steps required to lyophilize a product in a batch process can be summarized as follows:

- Pretreatment / Formulation
- Loading / Container (Bulk, Flask, Vials)
- Freezing (Thermal Treatment) at atmospheric pressure
- Primary Drying (Sublimation) under vacuum
- Secondary Drying (Desorption) under vacuum
- Backfill & Stoppering (for the product in vials) under partial vacuum
- Removal of Dried Product from Freeze Dryer



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FREEZE DRYING/LYOPHILIZER EQUIPMENT:

The main components of freeze-drying equipment are:

- Refrigeration System
- Vacuum System
- Control System
- Product Chamber or Manifold
- Condenser

There is a wide range of substances for which freeze-drying/Lyophilization is used as a conservation/preservation method without changing their composition. In aseptic pharmaceutical and biotechnology production, freeze drying/Lyophilization is often applied to the following products:

- Antibiotics,
- Bacteria,
- Vaccines,
- Hormones,
- Vitamins, enzymes, and peptides,
- liposome and collagen,
- plants and liver extracts,
- Radio-Immune assays,
- Blood plasma, plasma fractions, and antibodies.



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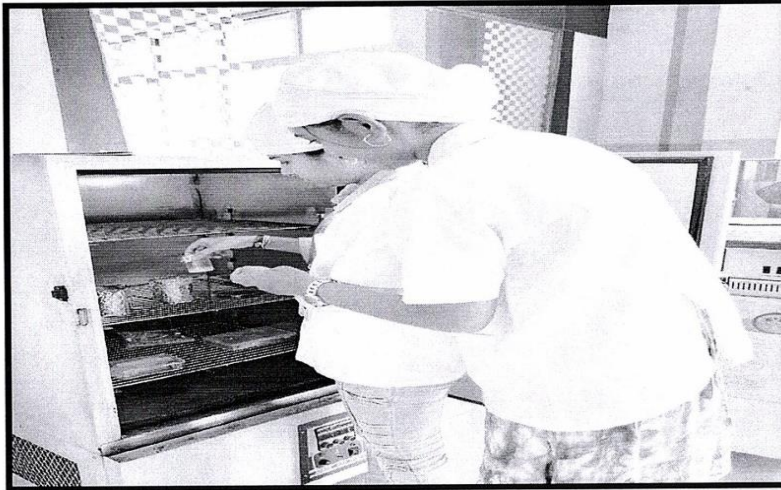


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Snapshots of Demonstration Session:



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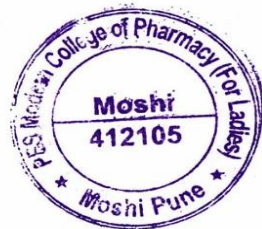
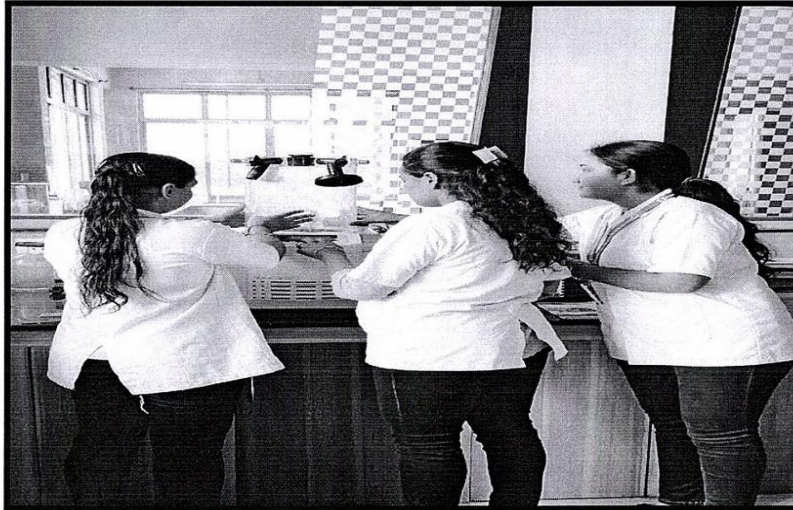
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Demonstration of Lyophilizer on 25/02/2022

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Principal

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(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Attendance

Lyophilizer

Sr. No.	Name	Sign
1	Neha Autade	Neha Autade
2	Rushali Bedjawalge	Rushali
3	Rutuja Bhangare	Bhangare
4	Shruti Burad	Shruti
5	Supriya Huljute	Huljute S.
6	Komal Kawale	Komal
7	Aishwarya Kharabi	A. Kharabi.
8	Shivanjali Madane	Madane
9	Karishma Markad	Markad
10	Harshda Narhare	Harshda
11	Jyoti Shrangare	Jyoti
12	Dakshayani Swami	D. Swami.
13	SimranValecha	Simran
14	Anjali Wadhokar	Anjali
15	Simran Yadav	Simran
16	Shraddha Chate	Shraddha
17	Dhanashree Kherade	Dhanashree
18	Tejasvini Neve	Tejasvini
19	Manasi Rokade	Manasi
20	Priyanka Sutar	Priyanka
21	Anupa Wagh	Anupa W.



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**PES MODERN COLLEGE OF
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**WORKSHOP ON
DEMONSTRATION OF
PLETHYSMOMETER**

**TRAINER
Bhagyshree Atre**

25-02-2022



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A demonstration of digital Plethysmometer

Report

The demonstration session of Digital Plethysmometer was arranged on 25/02/2022, Friday at 03:00 pm for students of Third Year B. Pharm students. The demonstration of the digital Plethysmometer was successful in providing students with a thorough understanding of the instrument's principles, usage, and applications in pharmaceutical research. The Plethysmometer measures changes in paw volume often used to assess inflammation. The hands-on experience, coupled with theoretical knowledge, equips students with valuable skills for their future careers.

In this demonstration session, the overall concept, as well as applications of freeze drying, are explained to students. Followed by an introduction of the entire components of Lyophilizer and its stepwise working in detail.

Objectives

- To familiarize students with the digital Plethysmometer and its components.
- To explain the principles and working mechanism of the Plethysmometer.
- To demonstrate the practical applications of the instrument in pharmaceutical research.
- To provide hands-on experience in using the Plethysmometer for measuring changes in paw volume.
- To enhance understanding of data interpretation and analysis from Plethysmometer readings.

Principles of Digital Plethysmometer

A digital Plethysmometer measures volume changes in a paw typically to assess edema, blood flow, or vascular function. The key principles include:

- Volume Displacement: The instrument measures the displacement of volume caused by paw inflammation.
- Transducer Mechanism: Converts physical volume changes into electrical signals.
- Digital Readout: Provides precise measurements displayed on a digital screen.

Components of Digital Plethysmometer

- Measurement Chamber: Where the paw is placed for measurement.
- Transducer: Senses the volume change and converts it into an electrical signal.



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- Amplifier: Increases the strength of the signal for better accuracy.
- Digital Display: Shows the volume changes in readable units.
- Software Interface: Allows for data recording, analysis, and storage.

Demonstration Methodology

- Introduction and Theory: Brief lecture on the principles and applications of the Plethysmometer.
- Instrument Setup: Explanation of the components and their functions.
- Practical Demonstration: Step-by-step procedure for using the Plethysmometer to measure paw volume in a sample experiment.
- Calibration of the instrument.
- Placement of a paw in the measurement chamber.
- Recording baseline volume.
- Inducing a change (e.g., by adding fluid or applying pressure).
- Measuring and recording the new volume.
- Data Analysis: Interpreting the changes in volume and understanding the physiological implications.
- Hands-On Session: Students individually use the Plethysmometer to reinforce learning.

Applications in Pharmaceutical Research

Inflammation Assessment: Measuring paw swelling to evaluate anti-inflammatory drugs.

Drug Efficacy: Determining the impact of new drugs on inflammation.

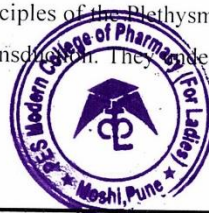
The outcome of the demonstration:

1. Familiarization with the Digital Plethysmometer and Its Components

Students gained comprehensive knowledge of the digital Plethysmometer, including its key components such as the measurement chamber, transducer, amplifier, digital display, and software interface. They could identify and describe the function of each part, enhancing their understanding of how the instrument operates as a whole.

2. Explanation of the Principles and Working Mechanism of the Plethysmometer

The students were able to grasp the underlying principles of the Plethysmometer, particularly the concepts of volume displacement and signal transduction. They understood how physical



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changes in volume are converted into electrical signals and then displayed digitally. This foundational knowledge prepared them for practical application and further learning.

3. Demonstration of Practical Applications in Pharmaceutical Research

The demonstration highlighted various practical applications, such as inflammation assessment

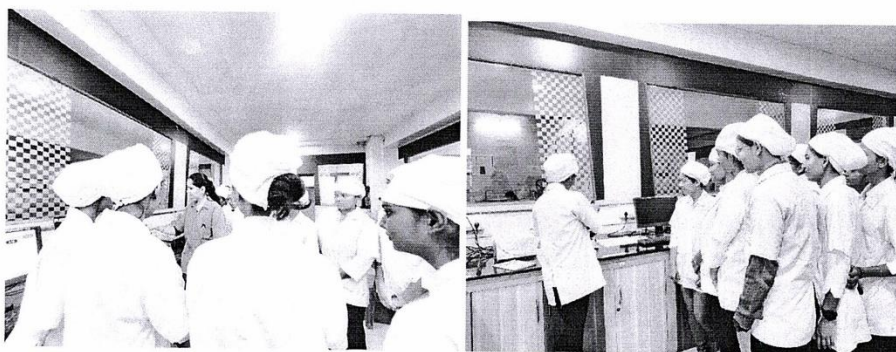
4. Hands-On Experience in Measuring Changes in Paw Volume

Through hands-on practice, students became proficient in setting up and using the Plethysmometer. They conducted measurements of paw volume, following procedures for calibration, baseline recording, and induced volume change. This experience built their confidence in using the instrument independently and accurately, reinforcing their practical skills.

5. Enhanced Understanding of Data Interpretation and Analysis

Students learned to interpret data from Plethysmometer readings effectively. They understood how to analyze changes in volume, considering physiological implications. This included recognizing patterns in data, calculating significant changes, and understanding the statistical relevance of their measurements. The ability to analyze and interpret data is crucial for their future research and professional work in pharmaceutical sciences.

• Snapshots of Demonstration Session:



B.N. Athre



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Demonstration of Digital Plethysmometer on 25/02/2022

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Demonstration of digital plethysmometer.

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T. Y. B. Pharm 2021-2022								
Subject:								
Date:			Date:			Date:		
Roll No	Name (Batch A)	Sign	Roll No	Name (Batch B)	Sign	Roll No	Name (Batch C)	Sign
1.	Abhang Rutuja	<i>Rutuja</i>	24	Gaikwad Tejaswini	<i>Tejaswini</i>	47	Kumbhar Siddhi	<i>Siddhi</i>
2.	Alhat Vaishnavi	<i>Vaishnavi</i>	25	Game Rohini Sunil	<i>Rohini</i>	48	Kumbhare Shivani	<i>Shivani</i>
3.	Bachhav Shubhangi	<i>Shubhangi</i>	26	Gawade Susmita	<i>Susmita</i>	49	Lokhande Sayali	<i>Sayali</i>
4.	Bagade Shruti Sharad	<i>Shruti</i>	27	Gaware Akshada	<i>Akshada</i>	50	Mahanavar Pratiksha	<i>Pratiksha</i>
5.	Bagul Ruchita Sahebrao	<i>Ruchita</i>	28	Gengaje Tejal S.	<i>Tejal</i>	51	Mankari Vaishnavi	<i>Vaishnavi</i>
6.	Bhakre Shubhada	<i>Shubhada</i>	29	Girase Hiral B.	<i>Hiral</i>	52	Mhetre Ankita	<i>Ankita</i>
7.	Borade Smita Yuvraj	<i>Smita</i>	30	Goswami Priyanka	<i>Priyanka</i>	53	More Janhavi Vivek	<i>Janhavi</i>
8.	Borhade Deepali Sudam	<i>Deepali</i>	31	Gowda Aishwarya	<i>Aishwarya</i>	54	Musale Shravani	<i>Shravani</i>
9.	Bute Bhavana	<i>Bhavana</i>	32	Gurav Bhakti Santosh	<i>Bhakti</i>	55	Nagare Ashvini Dinkar	<i>Ashvini</i>
10.	Chavan Namrata	<i>Namrata</i>	33	Jadhav Sakshi	<i>Sakshi</i>	56	Narkhede Shruti Vijay	<i>Shruti</i>
11.	Chavan Prerna Vijay	<i>Prerna</i>	34	Jagatap Shradha	<i>Shradha</i>	57	Narwade Komal	<i>Komal</i>
12.	Chikhale Neha	<i>Neha</i>	35	Jagtap Samruddhi	<i>Samruddhi</i>	58	Nimbargi Virakshi	<i>Virakshi</i>
13.	Chinchansure Vaishnavi	<i>Vaishnavi</i>	36	Jalsakare Nikita	<i>Nikita</i>	59	Pandit Anisha Gulabrao	<i>Anisha</i>
14.	Choudhari Aishwarya	<i>Aishwarya</i>	37	Joshi Ketki Kedar	<i>Ketki</i>	60	Pansare Snehal	<i>Snehal</i>
15.	Dahiwal Samruddhi	<i>Samruddhi</i>	38	Kad Neha Ulhas	<i>Neha</i>	61	Patil Harshada Maruti	<i>Harshada</i>
16.	Dawn Suchismita Amit	<i>Suchismita</i>	39	Kamble Pooja Babu	<i>Pooja</i>	62	Pawar Rutuja Santosh	<i>Rutuja</i>
17.	Devadkar Snehal	<i>Snehal</i>	40	Kamble Shashvati	<i>Shashvati</i>	63	Phartale Anisha Rajendra	<i>Anisha</i>
18.	Dhadge Aaditi Jalindar	<i>Aaditi</i>	41	Karpe Vaishnavi	<i>Vaishnavi</i>	64	Phatangare Akanksha	<i>Akanksha</i>
19.	Dhokare Priya	<i>Priya</i>	42	Khalure Ambika Sanjay	<i>Ambika</i>	65	Pikle Prajakta Kashinath	<i>Prajakta</i>
20.	Dhumase Punam	<i>Punam</i>	43	Khedkar Shivani	<i>Shivani</i>	66	Pole Ahilya Jaywant	<i>Ahilya</i>
21.	Dongarkar Sanskruti	<i>Sanskruti</i>	44	Kokane Varsha Shivaji	<i>Varsha</i>	67	Rahane Achal Kailas	<i>Achal</i>
22.	Gadhawe Mayuri	<i>Mayuri</i>	45	Kokane Vaishnavi Vijay	<i>Vaishnavi</i>	68	Rakshe Sakshi Hanumant	<i>Sakshi</i>
23.	Gadilkar Mrunmayee	<i>Mrunmayee</i>	46	Kumavat Xanti	<i>Xanti</i>	69	Raut Pratiksha Nilkhant	<i>Pratiksha</i>



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T. Y. B. Pharm 2021-2022					
Subject:					
Date:			Date:		
Roll No	Name (Batch D)	Sign	Roll No	Name (Batch E)	Sign
70.	Raut Prerana Prakash	<i>Prakash</i>	94.	Dalvi Sandhya Gangaram	<i>Sandhya</i>
71.	Sarode Nikita Ananta	<i>Sarode</i>	95.	Devane Vaishnavi Nandkumar	<i>Devane</i>
72.	Sathe Rohini Sunil	<i>Sathe</i>	96.	Dhaigude Vaishnavi Ashok	<i>Vaishnavi</i>
73.	Sayali Gajabhau	<i>Sayali</i>	97.	Ekal Pratiksha Subhash	<i>Ekal</i>
74.	Shaikh Nazal	<i>Shaikh</i>	98.	Ghadge Sandhya Prakash	<i>Sandhya</i>
75.	Shinde Komal Sanjay	<i>Shinde</i>	99.	Ghodake Utkarsha Prakash	<i>Utkarsha</i>
76.	Shinde Shubhangi	<i>Shinde</i>	100.	Hinge Pranjal Prabhakar	<i>Pranjal</i>
77.	Shinde Vaishnvi	<i>Shinde</i>	101.	Jadhav Rajshri Dattatray	<i>Rajshri</i>
78.	Shreya Nandu	<i>Shreya</i>	102.	Jadhav Sneha Sukhdeo	<i>Sneha</i>
79.	Sonawane Akanksha	<i>Sonawane</i>	103.	Kondhawale Shraddha Kisan	<i>Shraddha</i>
80.	Suryawanshi Sonal	<i>Suryawanshi</i>	104.	Lokhande Vrunda Sanjay	<i>Vrunda</i>
81.	Taware Rutuja Rahul	<i>Taware</i>	105.	Mahankar Poonam Pramod	<i>Poonam</i>
82.	Thorat Samiksha	<i>Thorat</i>	106.	Mandlekar Damini Shiram	<i>Damini</i>
83.	Vajale Sneha	<i>Vajale</i>	107.	Shaikh Praveen Mehmud	<i>Praveen</i>
84.	Wagh Pallavi Santosh	<i>Wagh</i>	108.	Shelar Monali Amber	<i>Monali</i>
85.	Wagh Sakshi Kisan	<i>Wagh</i>	109.	Shitole Megha Vijay	<i>Megha</i>
86.	Waghmare Ashwini	<i>Waghmare</i>	110.	Sodak Bhagyashri Bharat	<i>Bhagyashri</i>
87.	Walunj Rutuja Gulab	<i>Walunj</i>	111.	Somvanshi Neha Vilas	<i>Neha</i>
88.	Wangwad Shweta	<i>Wangwad</i>	112.	Thakare Pratiksha Parshuram	<i>Pratiksha</i>
89.	Aher Neha Hanumant	<i>Aher</i>	113.	Varal Rutuja Pandurang	<i>Varal</i>
90.	Akanksha Sanjay Mane	<i>Akanksha</i>	114.	Wagh Switi Subhash	<i>Wagh</i>
91.	Bangar Akshata Sopan	<i>Bangar</i>	115.	Wale Mayuri Shivaji	<i>Wale</i>



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**PES MODERN COLLEGE OF
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**WORKSHOP ON
DEMONSTRATION SESSION OF
PROBE SONICATOR**

**TRAINER
PRIYANKA S.SHINDE**

25-02-2022



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REPORT


The demonstration session of the Probe Sonicator was arranged on 25/02/2022, Friday at 02:00 pm for students of First Year M. Pharm. This session provided a platform for students to gain knowledge about emerging trends and innovative approaches in pharmaceutical sciences. The demonstration is considered an effective and developmental practice to ensure that students are informed about novel techniques applicable in Formulation and Development, Research and Development, etc.

During this demonstration, students were introduced to the concept and applications of ultrasonic homogenization. Additionally, they were given a detailed explanation of the components of the Probe Sonicator and its step-by-step operation.

The outcome of the demonstration:

1. Students learned about the components of the Probe Sonicator.
2. Students understood the techniques of ultrasonic homogenization.
3. Students studied the applications of ultrasonic homogenization.




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DEMONSTRATION OF PROBE SONICATOR

Ultrasonic Homogenization:

Ultrasonic homogenization involves the use of ultrasonic waves to reduce particle size in a liquid, resulting in a uniform mixture. This technique is frequently employed in the preparation of nanoemulsions, cell lysing, and particle size reduction in pharmaceutical formulations. It is highly effective in achieving uniform particle size distribution and enhancing the solubility and bioavailability of pharmaceutical substances.

Principle of Ultrasonic Homogenization:

The probe sonicator operates by generating high-frequency ultrasonic waves that create cavitation bubbles in a liquid. The collapse of these bubbles produces intense shock waves and localized high temperatures and pressures, which facilitate the breakdown of particles and cells. This process can be precisely controlled to attain the desired level of homogenization.

The steps involved in using a Probe Sonicator can be summarized as follows:

- **Preparation:** Ensure the sample is appropriately prepared and placed in a suitable container.
- **Setup:** Attach the probe to the sonicator and place it into the sample.
- **Sonication:** Set the sonication parameters (time, amplitude, pulse, etc.) and initiate the sonication process.
- **Monitoring:** Observe the process and adjust parameters if necessary to achieve optimal results.
- **Post-Sonication:** Remove the probe, clean the equipment, and process the sample as required.



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PROBE SONICATOR EQUIPMENT: The main components of probe sonicator equipment include:

- **Ultrasonic Generator:** Converts electrical energy into high-frequency ultrasonic waves.
- **Probe (Sonotrode):** Transmits ultrasonic waves into the sample.
- **Amplitude Control:** Regulates the intensity of the ultrasonic waves.
- **Timer:** Controls the duration of the sonication process.
- **Cooling System:** Prevents overheating of the sample during sonication.

Applications of Probe Sonicator:

Ultrasonic homogenization has a wide range of applications in pharmaceutical and biotechnology production, often used for the following products and processes:

- **Nanoemulsions:** Enhancing the solubility and stability of poorly soluble drugs.
- **Cell Lysing:** Breaking down cell membranes to release cellular contents.
- **Particle Size Reduction:** Creating uniform particle sizes for improved drug delivery.
- **Dispersion of Nanoparticles:** Ensuring even distribution of nanoparticles in formulations.
- **Emulsification:** Creating stable emulsions for various pharmaceutical applications.
- **Sonochemistry:** Facilitating chemical reactions using ultrasonic waves.



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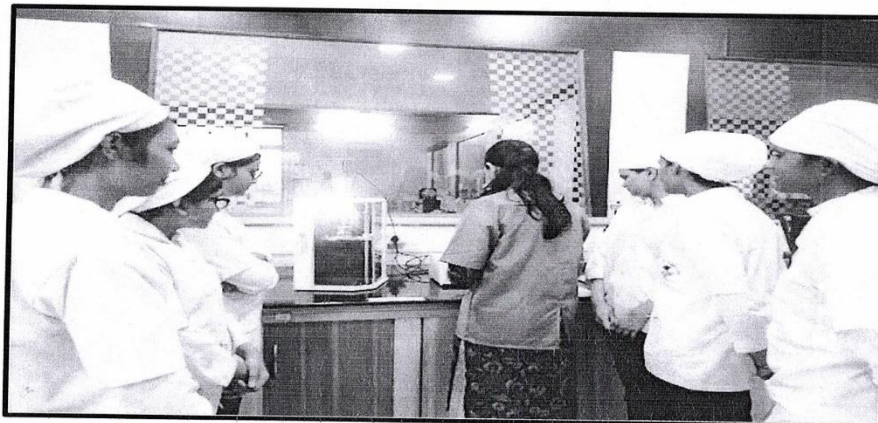


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M. Pharm., Ph. D.
Principal

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Prof. Dr. G. R. Ekbote,
(M.S., M.N.A.M.S.) Chairman,
Business Council P.E. Society, Pune

Snapshots Of Demonstration Session –



Demonstration of Probe Sonicator on 25/02/2022

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ATTENDANCE SHEET

Class : M.Pharm Pharmaceutics

Probe Sonicator

SR.NO	NAME OF STUDENT	SIGN
1	AUTADE NEHA B	
2	BEDJAWALGE RUSHALI S	
3	BHANGARE RUTUJA G	
4	BURAD SHRUTI H	
5	VALECHA SIMRAN G	
6	HULJUTE SUPRIYA R	
7	KAWALE KOMAL A	
8	KHARABI AISHWARYA J	
9	MADNE SHIVANJALI S	
10	YADAV SIMRAN M	
11	MARKAD KARISHMA U	
12	NARHARE HARSHDA S	
13	SHRANGARE JYOTI M	
14	SWAMI DAKSHAYANI M	
15	WADHOKAR ANJALI S	



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**PES MODERN COLLEGE OF
PHARMACY (FOR LADIES),
MOSHI, PUNE**



**WORKSHOP ON
DEMONSTRATION SESSION OF
TABLETS COATING MACHINE**

TRAINER

Gitanjali Mehetre

26-02-2022



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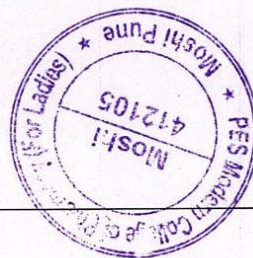
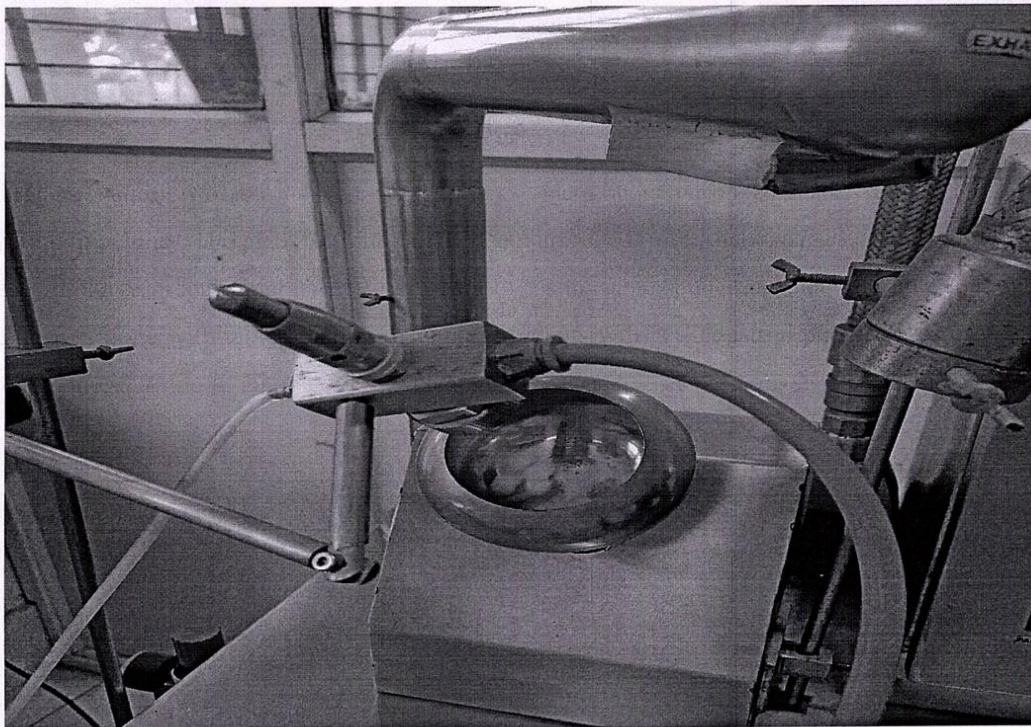
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Report

The demonstration of the tablet coating process has conducted on 26/2/2022, using the tablet coating machine. The demonstration has been arranged for Final Year B. Pharm Students. Students have prepared tablet dosage forms by using tablet punching machine and coating of tablet was done with tablet coating machine. Students will get industrial perspectives of dosage form manufacturing as an outcome of this demonstration.



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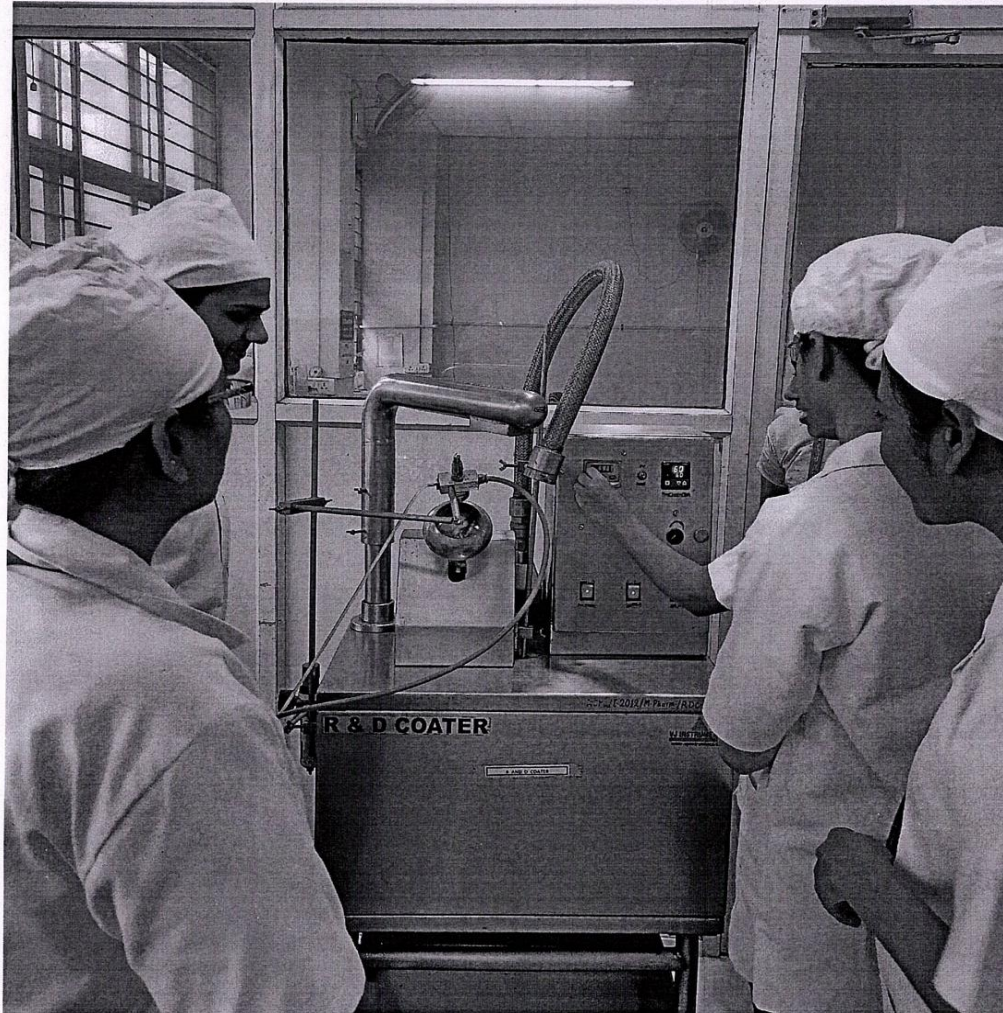


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Demonstration of Tablets coating machine on 26/02/2022

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Demonstration of Tablet Coating

Objective: To demonstrate tablet coating process

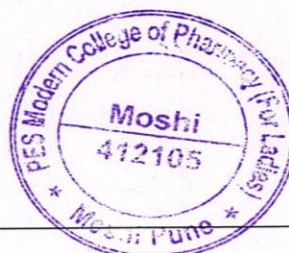
Requirement: Tablet coater, blend of excipients of the following category-
Polymers, Solvents, Plasticizers, Colorants, Binder, Lubricant, Diluents,
Granulating Solvent or Water

Principles of tablet coating:

1. To mask the taste, odour, or colour of the drug.
2. To provide physical and chemical protection for the drug.
3. To control the release of the drug from the tablet.
4. To protect the drug from the gastric environment of the stomach with an acid-resistant enteric coating.
5. To incorporate another drug or formula adjuvant in the coating to avoid chemical incompatibilities or to provide sequential drug release.
6. To improve the pharmaceutical elegance by use of special colours and contrasting printing.

Advantages of tablet coating:

- ✓ Enhance permeability, mask unpleasant taste, odour and colour of the API.
- ✓ Increase the stability.
- ✓ Increase the mechanical integrity.
- ✓ Enhance the elegance.



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- ✓ Modify the drug release profile.
- ✓ Avoid the side effects.
- ✓ Reduces friction and increases packaging rate.

Disadvantages of tablet coating:

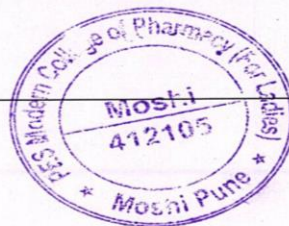
- ✓ Relatively high cost.
- ✓ Time consuming process.
- ✓ Requires the expertise of highly skilled technician.

Types of tablet coating:

1. Sugar coating
2. Film coating
3. Enteric coating
4. Press coating
5. Specialized coatings
 - a) Compressed coating
 - b) Electrostatic coating
 - c) Dip coating
 - d) Vacuum film coating

Coating Process:

Rotating coating pans are commonly used for coating purpose. Uncoated tablets are placed inside the pan and the liquid coating material is brought into the pan



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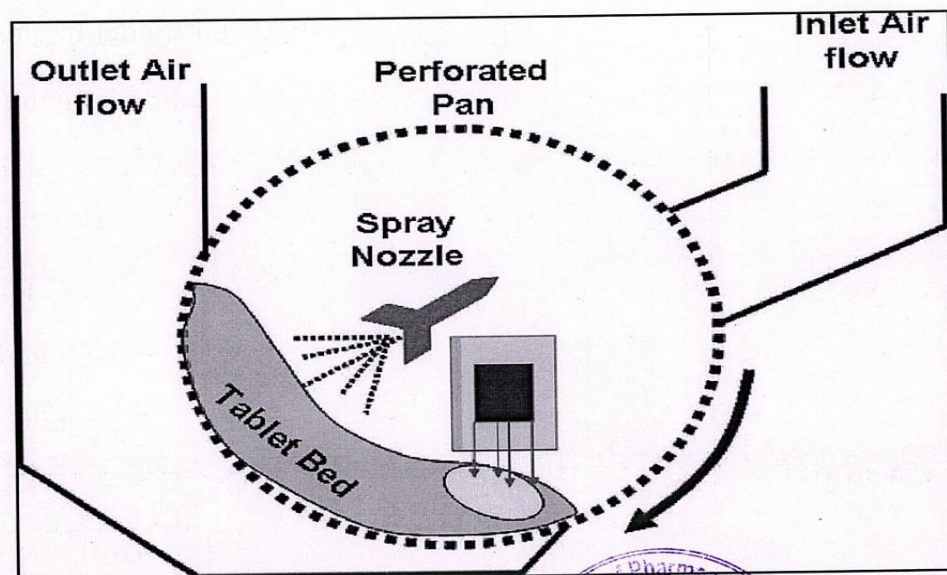
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during the tumbling of tablets. Air is passed over the tumbling tablets so that liquid part of coating material gets evaporated leaving the layer of solid coating material.

The coating method is normally such as the subsequent steps:

1. Batch identification and selection of type of coating (film or sugar coating)
2. Dispensing (accurate dosing of all required raw materials)
3. Loading of tablets into pan
4. Warming of tablets
5. Spraying (application of coating material and rolling of tablet are carried out simultaneously)
6. Drying
7. Cooling
8. Unloading



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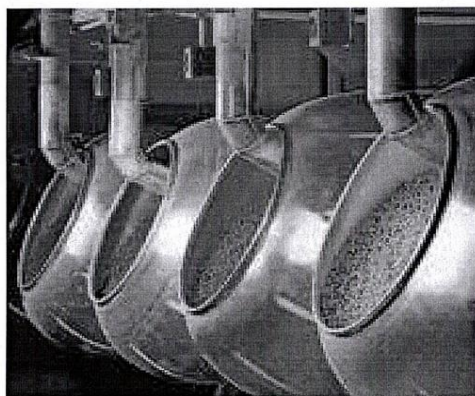
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Factor Affecting Tablet Coating:

Tablet Properties: To tolerate the intense attrition of tablets striking other tablets or walls of the coating equipment, the tablets must be resistant to abrasion and chipping. The ideal shape for coating is sphere.

Coating Process: Type of coating Equipments and its automation also affects coating. The key parameters which affect coating process are temperature humidity air flow.

Coating Composition: Polymers Solvents Plasticizers Colorants

Tablet Coating Defects

1. Picking and sticking: This is when the coating removes a piece of the tablet from the core. Over wetting or excessive film tackiness causes tablets to stick to each other or to the coating pan. On drying, at the point of contact, a piece of the film may remain adhered to the pan or to another tablet, giving a "picked" appearance to the tablet surface and resulting in a small exposed area of the core.



4

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2. Mottled color: This can happen when the coating solution is improperly prepared, the actual spray rate differs from the target rate, the tablet cores are cold, or the drying rate is out of specification.

3. Bridging: This occurs when the coating fills in the lettering or logo on the tablet and is typically caused by improper application of the solution, poor design of the tablet embossing, high coating viscosity, high percentage of solids in the solution, or improper atomization pressure.

4. Erosion: This can be the result of soft tablets, an over-wetted tablet surface, inadequate drying, or lack of tablet surface strength.

5. Orange peel effect: Inadequate spreading of coating solution before drying causes a bumpy or orange peel effect on the tablet.

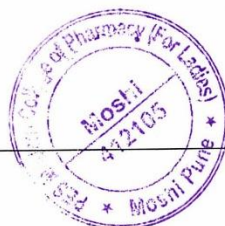
6. Roughness: This is observed when coating is applied by spray. Some of the tablets may dry too rapidly before reaching the tablet bed and deposits on tablet surface. Surface roughness also increases with pigment concentration and polymer concentration in the coating solution.

7. Peeling and frosting. This is a defect where the coating peels away from the tablet surface in a sheet. Peeling indicates that the coating solution did not lock into the tablet surface. This could be due to a defect in the coating solution, over-wetting, or high moisture content in the tablet core.

Applications of Tablet coating:

Appearance: to change the color for branding purposes or other aesthetic reasons.

Stability: to protect the active ingredient from moisture, light, and/or acidic environment of the stomach. Taste and/or odor



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Masking: to provide an easy to swallow tablet without the bitter taste of many active ingredients.

References:

1. "The design and Manufacture of Medicine" Aulton's Pharmaceutics (Edited by Michel. E. Aulton) 3rd Edition, Page No. 502, 510-513
2. Arora Rimjhim, Rathore Kamal Singh, Bharakatiya Meenakshi, "An Overview on Tablet Coating" Asian Journal of Pharmaceutical Research and Development 2019; 7(4): -89-92



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Savitribai Phule Pune University Semester Practical Exam
PES Modern College of Pharmacy (For Ladies), Moshi, Pune



STUDENT ATTENDANCE

Name of student	Sign	Name of student	Sign	Name of student	Sign
Alhat Shwetali Ulhas		Khade Supriya M.		Shelar Sayali T.	
Amle Raksha Sanjeeo		Khair Bhagyashree S.		Shinde Akanksha M.	
Asawale Shruti Sanjay		Khedkar Sanskruti Vijay		Shubhada Babu C.	
Baidmuttha Manasi M.		Khot Gauri Subhash		Siddhi R. Ghosalkar	
Bhagwat Shraddha H.		Kute Monika Raju		Sirvi Jinalkumari D.	
Bhosale Mayuri Kisanrao		Lakade Aditi Anil		Snehal A. Kamate	
Borude Snehal Tukaram		Maravade Payal Sanjay		Sukre Vaishnavi N.	
Chavan Anjali Vitthal		Momin Juveriya Anwar		Tarade Snehal Vilas	
Deokar Nikita Dhanaji		Mungase Yashda Arun		Todkar Aishwarya D.	
Dumbare Priyanka Raju		Naik Divya Sanjay		Ture Sushama Sitaram	
Gaikwad Snehal S.		Pachpor Samriddhi		Yadav Rutuja H.	
Gawade Rutuja Sanjay		Palwe Ashwini Ishwar		Yewale Urmila S.	
Ghule Sakshi D.		Pandit Mayuri Pralhad		Zadke Swapnali Ram	
Giri Akshata Dhanraj		Patil Anuja Pramod			
Gite Anjalee Ajinath		Patil Komal Pravin			
Harale Shrutika		Pawar Piyusha Vasant			
Jadhav Pranita Pramod		Pawar Sayali Pravin			
Jadhav Vaishnavi Rajesh		Pharate Pooja C.			
Kadam Aishwarya D.		Pote Durga Bansilal			
Karad Pallavi Govind		Sakore Preeti T.			
Karpe Shrutika Sunil		Rajput Priyanka P.			
Kate Apurva Hemant		Shah Muskan Akram			

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**PES MODERN COLLEGE OF
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PUNE**



**Guest Lecture on
Global regulatory affairs current
perspective training and placement**

**Guest Speaker
V. P. Chaudhari,
HOD School of Pharmacy, Pune**

t

Date: 25/05/2022

Venue: Seminar Hall





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MCPL / Let / 2022 / Ref. No. 378

Date-23/05/2022

To,
Dr. V. P. Choudhari,
HOD QA,
School of Pharmacy, MIT World Peace University,
Pune

Subject: Regarding Invitation for delivering a guest lecture on "Global Regulatory Affairs Current Perspective : Training & Education Opportunities".

Dear Sir,

This is in reference to our discussion regarding guest lecture on topic "Global Regulatory Affairs Current Perspective : Training & Education Opportunities".

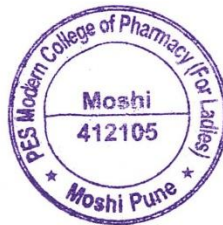
We are pleased to introduce that, PES Modern College of Pharmacy (For Ladies), Moshi, Pune is established in 2004 catering more than 400 women students. It is located in PCMC. We are running D. Pharm, B.Pharm, M.Pharm and Ph.D courses.

We will be extremely obliged if you could be a part of our endeavour of making the untapped talent shines. We would like to invite you for a guest lecture on topic "Global Regulatory Affairs Current Perspective: Training & Education Opportunities". As per our telephonic discussion we are keen to organize guest lecture **Online mode on 25th May, 2022 at 2.00 pm**. We would be glad to provide you with any further information and assistance in this regard.

We are looking forward to your participation in the event.

Thanking you,

Principal
PES Modern College of Pharmacy
(For Ladies)
Borhadewadi, At/Post Moshi
Tal.Haveli, Dist.Pune - 412105



- Borhadewadi, Dehu - Alandi Road, A/P. Moshi, Tal - Haveli, Dist. - Pune - 412 105 M.S. (INDIA)
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Business Council P.E. Society, Pune

Ref : 379

Date :25/05/2022

To,
Dr. V. P. Choudhari,
HOD QA, School of Pharmacy,
MIT World Peace University,
Pune

Sub: Thanking letter for conducting guidance session

Dear Sir,

We are thankful to you for conducting guidance session for first,second, third ,final year and M. Pharm students on 'Global Regulatory Affairs Current Perspective : Training & Education Opportunities'. On 25th May, 2022 at 2.00 pm . You gave deep insights into the topic and also revealed some interesting facts.

We are highly obliged as you spend your valuable time and shared knowledge. Your presence has added value to our institute. We are sure that your valuable assistance will always be with us in future.

Looking forward for the same cooperation in future.

Thanking you,

Yours Truly,

Principal

Dr. S.N.Dhole

PRINCIPAL
PES Modern College of Pharmacy
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Borhadewadi, At/Post Moshi
Tal.Haveli, Dist.Pune - 412105



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Date:26/5/22

REPORT OF WEBINAR BY CAREER GUIDANCE CELL COMMITTEE

The webinar was arranged in PES Modern College of Pharmacy for (Ladies),
Moshi

Date-25/05/2022

Time-2.00-3.00 Pm

Mode –Online Google Meet

Convey by-Ms. Rutuja Aher

Speaker Name - Dr.V.P Chaudhari

The Topic of webinar was “Global Regulatory Affairs Current Perspective :
Training & Education Opportunities”. Google Meet link has shared before 15
min. Dr.V.PChaudhari was speaker working as a HOD QA, School of
Pharmacy, MIT World Peace University, Pune.The Session was started with
Floral Welcome of Dr.Chaudhari Sir

He Started Session by Presentation about Global Regulatory Affairs
Current Perspective .He has also covered the topic such as regulatory
requirement in pharmaceutical industry Training & Education Opportunities.He
has also focused on current opportunities available in Global Pharma Market .
He has interact with students regarding their queries about topic .The session
was interactive and student were satisfied to listen the thought.

Principal



Criterion 3 - Research, Innovations and Extension



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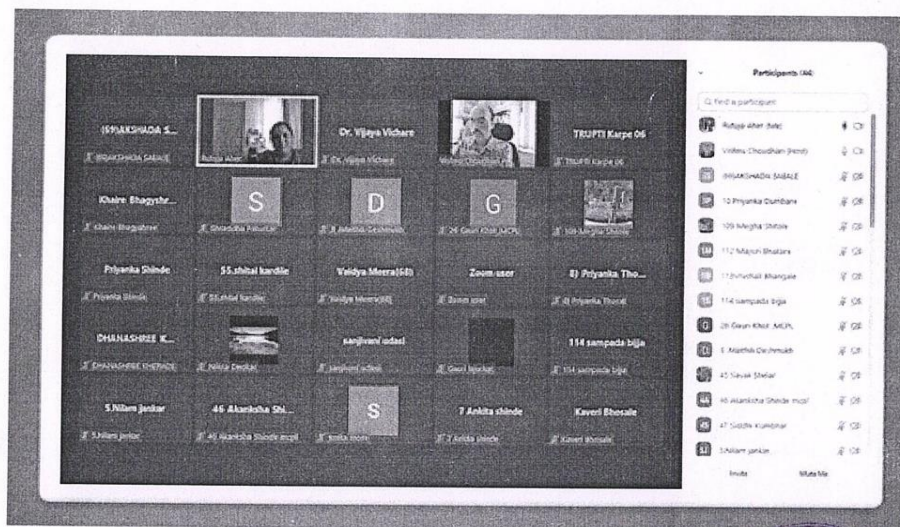
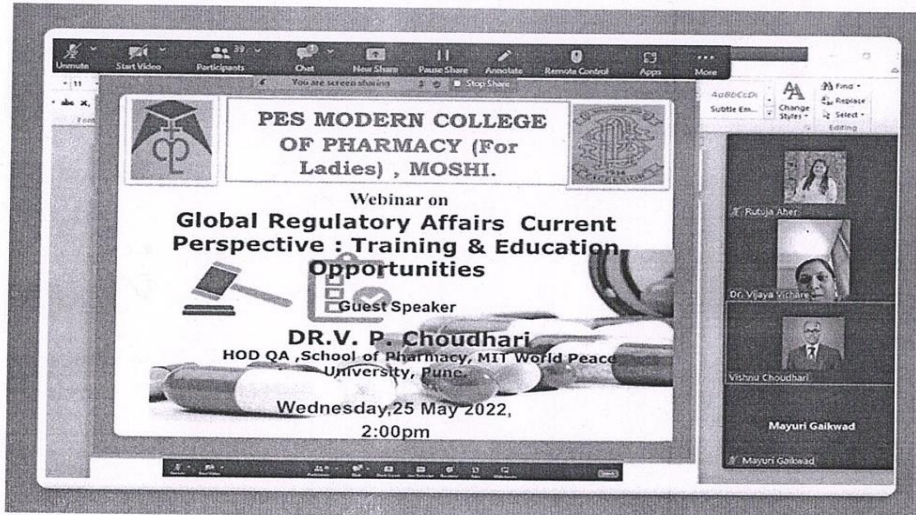


Approved by AICTE, New Delhi (F.No.06/07/MS/PHARMA/2004/047, DTE,Mumbai (2/NGC/2004/342)
Government of Maharashtra No. TEM/2004(235/04) TE-1, Pharmacy Council of India (32-347/2012-PCI),
Permanently affiliated to Savitribai Phule Pune University, ID No. PU/PN/Pharmacy/200/2004

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Business Council P.E. Society, Pune



Guest lecture by Dr V.P. Choudhari on 25/05/2022