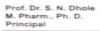


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CRITERIA III

Key indicator: 3.2. Innovation Ecosystem

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



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INDEX

Sr.No.	Name of the workshop/ seminar/	Number of	Date	Pg No
	conference	Participants		
1.	Demonstration session of Extruder and	15	18/08/2022	4-9
	spheronizer			
2.	Demonstration of Microwave oven	103	25/08/2022	10-14
3.	Demonstration of Trinocular microscope	69	25/08/2022	15-19
4.	Entrepreneurship, creativity and	324	18/10/2022	20-32
	innovation			
5.	Demonstration of All purpose equipment	109	03/11/2022	33-39
6.	Demonstration of Brookfield viscometer	106	14/01/2023	40-45
7.	Demonstration session on Lyophilizer	14	21/01/2023	46-51
8.	Demonstration of HPLC	4	23/12/2022	52-53
9.	Demonstration of Plethysmometer	100	03/02/2023	54-58
10.	Demonstration of Aseptic area	98	15/02/2023	59-63
11.	Demonstration session on Extruder and	17	15/02/2023	64-70
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12.	Demonstration session of Probe Sonicator	17	17/02/2023	71-76
13.	Demonstration session of Dissolution test apparatus	22	28/02/2023	77-81
14.	Demonstration of Tablet punching	103	17/04/2023	82-87
	machine			
15.	Demonstration of Diffusion cell apparatus	25	04/05/2023	88-92
16.	Basics of formulation design	135	24/06/2023	93-103

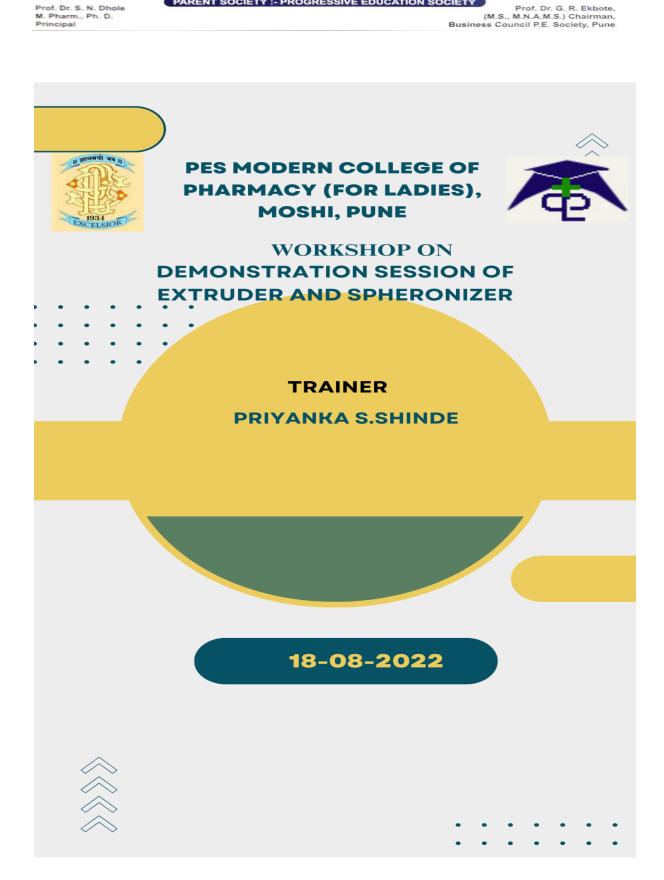


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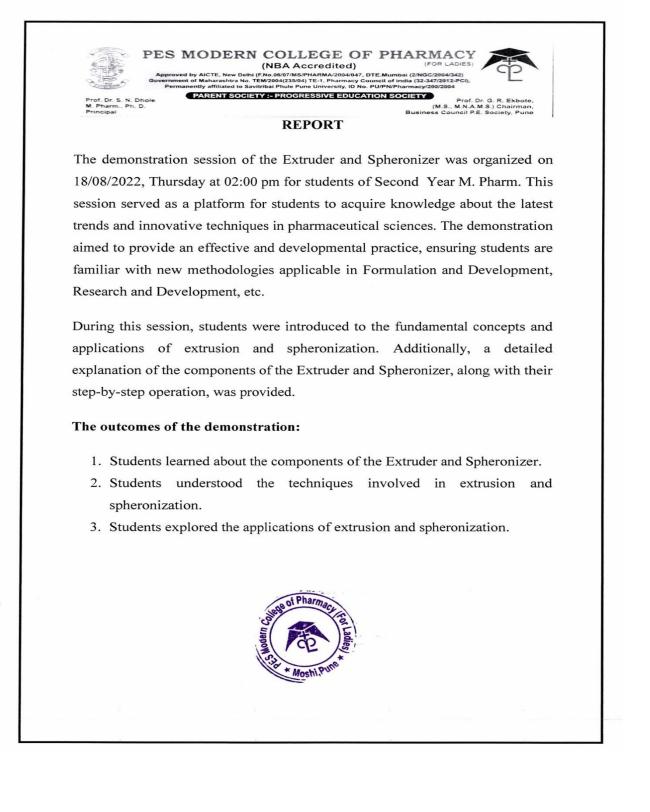
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DEMONSTRATION OF EXTRUDER AND SPHERONIZER

Extrusion and Spheronization:

Extrusion and spheronization is a multi-step technique used to create uniform spherical pellets (spheroids) from a wet mass. This process is widely utilized in the pharmaceutical industry to develop controlled-release dosage forms, enhance flow properties, and ensure uniformity of the final product.

Principle of Extrusion and Spheronization:

The process involves extruding a wetted mass through a die to create cylindrical extrudates, which are then broken into smaller segments and rounded into spheres in a spheronizer. This method ensures high sphericity and uniform size distribution of the pellets, crucial for consistent drug release profiles.

The steps involved in extrusion and spheronization can be summarized as follows:

- **Mixing:** Combine the active pharmaceutical ingredient (API) with excipients and a binder solution to form a wet mass.
- Extrusion: Feed the wet mass into an extruder to produce cylindrical extrudates.
- **Spheronization:** Transfer the extrudates to a spheronizer, where they are broken into smaller segments and rounded into spheres.
- Drying: Dry the spherical pellets to remove any residual moisture.
- Screening: Screen the dried pellets to achieve the desired size distribution.





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Extruder and Spheronizer Equipment:

The main components of extruder and spheronizer equipment include:

- **Extruder:** Device used to push the wet mass through a die to form cylindrical extrudates. It typically includes a hopper, screw, and die plate.
- **Spheronizer:** A rotating plate with a grooved surface that breaks the extrudates into smaller segments and rounds them into spheres.
- **Mixer/Granulator:** Used to prepare the wet mass by combining the API, excipients, and binder solution.
- **Dryer:** Equipment used to remove moisture from the spherical pellets, such as a fluid bed dryer or tray dryer.
- Sieve/Screener: Used to separate pellets based on size to ensure uniformity.

Applications of Extruder and Spheronizer:

Extrusion and spheronization are applied in a wide range of pharmaceutical applications, often used for the following products and processes:

- **Controlled-Release Formulations:** Creating pellets that release the drug at a controlled rate.
- **Taste Masking:** Encapsulating bitter drugs in spheroids to mask their taste.
- **Pelletization:** Producing pellets that can be filled into capsules or compressed into tablets.
- **Multi-Particulate Systems:** Developing dosage forms with multiple APIs in a single dosage unit.
- **Improved Flow Properties:** Enhancing the flow properties of powders and granules.
- Uniform Drug Distribution: Ensuring consistent drug content in each pellet for uniform dosing.





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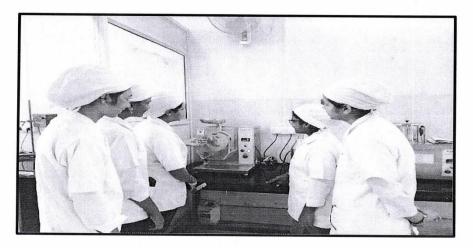
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Snapshots Of Demonstration Session -







Demonstration of Extruder and Spheronizer on 18/08/2022



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ATTENDANCE SHEET

Class : M.Pharm Pharmaceutics

Extruder & Spheronizer

SR.NO	NAME OF STUDENT	SIGN
1	AUTADE NEHA B	BUTHes R.N.B.
2	BEDJAWALGE RUSHALI S	Rushel3
3	BHANGARE RUTUJA G	Bhengare,
4	BURAD SHRUTI H	Struti
5	VALECHA SIMRAN G	Limman
6	HULIUTE SUPRIYA R	tapoina
7	KAWALE KOMAL A	koniala -
8	KHARABI AISHWARYA J	(A)
9	MADNE SHIVANJALI S	Shivanjan
10	YADAV SIMRAN M	0. 200 /
11	MARKAD KARISHMA U	Alexisteria .
12	NARHARE HARSHDA S	Horshad
13	SHRANGARE JYOTI M	Jyoti .
14	SWAMI DAKSHAYANI M	P.Swan.
15	WADHOKAR ANJALI S	Axisthur



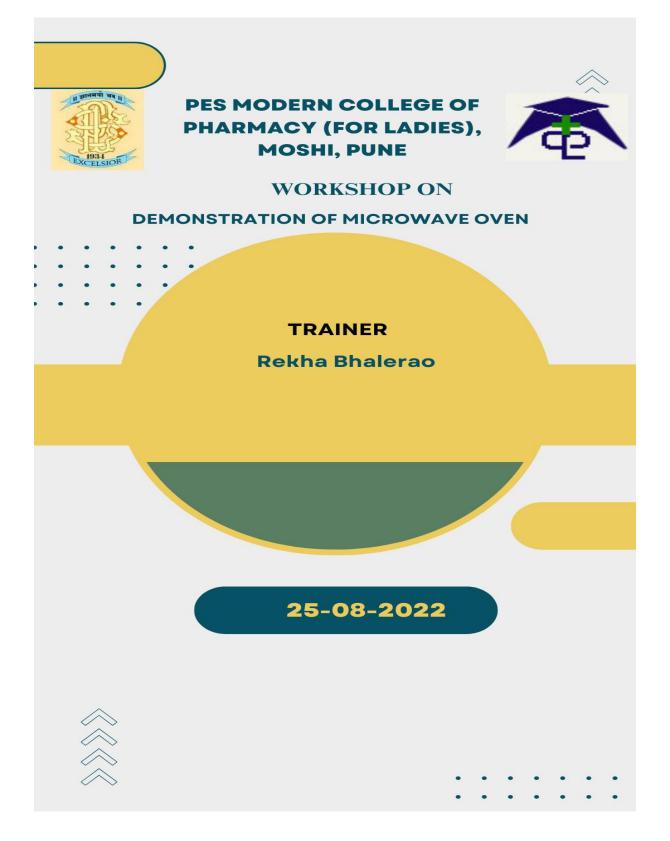


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Demonstration on Microwave Oven

Academic Year 2022-2023

Date: 25/08/2022

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

- 1. Push the main switch of electrical supply. A light comes on in the cavity and the blower makes a humming sound.
- 2. Make sure that the flask containing reaction mixture is placed in the right position.
- 3. This should be exactly above the magnetic stirrer.
- 4. Put magnetic needle & porcelain bits in the flask.
- 5. Select power level to change voltage, voltage can vary from 140 to 700 watt.
- 6. Time can increase by pressing time button in multiples of 1 Min & 5 Min.
- 7. Shut the door properly & press START. Your reaction has begun. The time display starts counting downwards.

8. To measure temperature, press STOP, open the door and dip the probe in solvent.

- 9. To stop the synthesizer press STOP or open the door.
- 10. While using this student should wear hand glows.

Applications:

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



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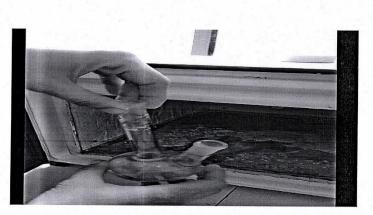


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Performing an experiment of preparation of amino ester



Demonstration givwn for second year student

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Demonstration of microwave oven on 25/08/2022



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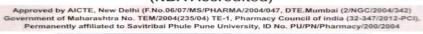
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4	Bachkar Sonali Bhmaji	Spachner	2 30	Gaikwad Samruddhi S	Simudi
5	Bagul Trupti Rajesh	Backettieft	31	Gavade Sanika Kalidas	Cracial
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10	Bhilare Tejasvini Kiran	Jejaswini	36	Gosavi Mansi	TACUSTON
11	Bhosale Gautami G	Bhotale	37	Harke Gayatri Sunil	Givetting
12	Bhosale Saroj	Bhosalet	38	Hule Sarthi Rajendra	Sente
13	Biradar Shradda S	Bradars.	39	Ingole Pooja Pramod	Portigue
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24	Dhumal Mayuri D	Mayuri	50	Kashid Snehal Popat	Sp. Kordhi
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58	Konde Khushi Amol	Kondegi	84	Patil Kalika Raosaheb	Hor
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62	Lohar Rutuja Deepak	Riteja .	88	Patil Vaishnavi Dinesh	Robil .
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67	Mane Shreya Mahesh	Andre	93	Roundhal Akanksha	AKUNKSHU
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70	Mehasare Gayatri R	Gayoday .	96	Salunke Vaishnavi Gitraj	Massh.
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Report

The demonstration session of trinocular microscope was arranged on 25/08/2022, Friday 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 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:

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





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Demonstration of Trinocular microscopes

Introduction

A trinocular microscope is a sophisticated optical instrument used extensively in biological, medical, and industrial fields. Unlike traditional microscopes, it features three eyepieces two for binocular viewing and one for attaching a camera or other recording devices. This configuration allows simultaneous viewing and image capturing, making it invaluable for detailed analysis and documentation.

Components and Design

The key components of a trinocular microscope include:

- 1. Optical Head: The trinocular head comprises two eyepieces for binocular viewing and a third port for camera attachment. This design facilitates both direct observation and digital recording simultaneously.
- 2. Objective Lenses: Typically, these microscopes come with multiple objective lenses (4x, 10x, 40x, and 100x), offering a range of magnifications.
- Stage: The stage is where the specimen is placed. It usually features mechanical 3. controls for precise movement.
- 4. Illumination System: An integrated light source, often LED or halogen, provides the necessary illumination. Adjustable intensity controls enhance viewing clarity.
- 5. Focusing Mechanism: Coarse and fine focus knobs allow for sharp and precise focusing of the specimen.

Applications

Trinocular microscopes are widely used in various fields due to their versatility and advanced features:

- Biological Research: Enables detailed observation of cellular structures, microorganisms, and tissues.
- Medical Diagnostics: Assists in examining blood samples, pathogens, and histological specimens.
- Industrial Inspection: Used for inspecting materials, components, and quality control in manufacturing processes.
- Educational Purposes: Essential in teaching laboratories for demonstrating microscopic observations and techniques.

Advantages

The primary advantages of a trinocular microscope include:

* St.

- Enhanced Imaging: The third eyepiece allows for the attachment of high-resolution cameras, facilitating documentation and analysis.
- Versatility: Suitable for a wide range of applications across different fields.
- Simultaneous Viewing and Recording: Enables real time observation and digital Simultaneous Viewing and Recording. Endotes of Pharmacapturing without the need to switch between modes of Pharmacapturing without the need to switch between modes of Pharmacapturing without the need to switch between modes of Pharmacapture and strain during processing and the processing of the switch between the strain during between the switch between
- Ergonomics: Designed to reduce eye strain dy rug prolong with adjustable interpupillary distance and comfortable eyep

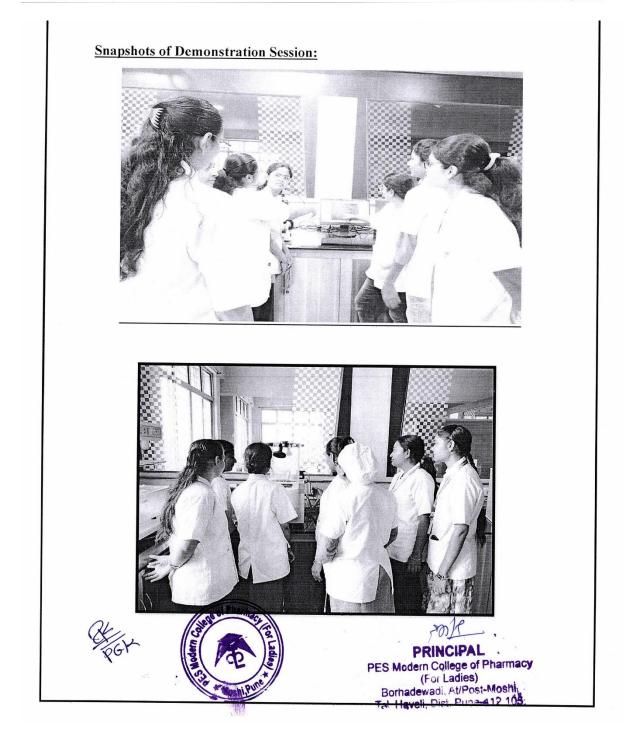


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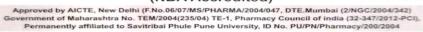


Demonstration of trinocular microscope on 25/08/2022



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

Demonstration of trinocular Microscope

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Roll No	Name		Roll No	Name		Roll No	Name	
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8.	Borhade Deepali Sudam	a	31	Gowda Aishwarya	Grutt	-54	Musale Shravani	Mus
9.	Bute Bhavana	Butes	32	Gurav Bhakti Santosh	BBS	-55	Nagare Ashvini Dinkar	Noga
10.	Chavan Namrata		33	Jadhav Sakshi	Tachs	-56	Narkhede Shruti Vijay	HP-
11.	Chavan Prerna Vijay	Prover	34	Jagatap Shraddha	Jeuges	-57	Narwade Komal	tome
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Prof. Dr. G. R. Ekbote, (M.S., M.N.A.M.S.) Chairman, Business Council P.E. Society, Pune

GUEST LECTURE ON Entrepreneurship, Creativity and Innovation

Special Speaker

Mr. Suresh B. Umap Retired Government Official

18/10/2022

Venue: Seminar Hall

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

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PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

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

(FOR LADIES)

R. E No. M. PL/ (4/636-1)

Date 15/10/2022

Īο, Mr. Suresh H. Umap Shivmaha lanualive Foundation. Founder and Chairman, CEO, MCED Punc - 411041

Subject: Invitation as Delegate for Entrepreneur Guest lecture on "Entrepreneurship, Creativity and Innovation"

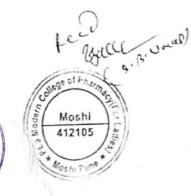
Respected Sir,

On behalf of PES Modern College of Pharmacy for Ladies, Moshi, we feel privilege to invite you as delegate for Guest Lecture "Entrepreneurship, Creativity and Innovation" on 18th Oct. 2022 at Ham. Your gracious presence will act as a catalyst and inspire all of us. Thope you will honor us by accepting our request.

Thanking you

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Sincerely,

Spla

Dr. S.N. Dhole

1. 1 PRINCIPAL PES Modern College of Pharmacy (For Ladies) Borhadewadi, At/Post Moshi Tal Haunti r Como . 412105



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

To,

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: 15/10/2022

Mr. Suresh B. Umap Shivmudra Innovative Foundation, Founder and Chairman, CEO, MCED Pune – 411041

Subject: Thanking Letter

Dear Mam,

We are pleased that, you have accepted our request for Enreprenuer Lecture in our college. Kindly accept our sincere appreciation for the outstanding presentation you made to PES Modern College of Pharmacy for Ladies Moshi, on "Entrepreneurship, Creativity and Innovation" On 48th Oct 2022. It was very interesting to hear about your experience.

Thank you so much for sharing your valuable time with us. We all agreed that your lecture was the most exciting we had this year.



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Dr. Dhole S.N.

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



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Dr. S. N. Dhole

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

Summary Report on Entrepreneur Development Programme

On

"Entrepreneurship, Creativity, Innovation"

Resource Person: Mr. Suresh B. Umap

Organized by: PES Modern college of Pharmacy for Ladies, Moshi in collaboration with Maharashtra Centre for Entrepreneurship Development (MCED)

Conducted on: 18/10/2022

The entrepreneurship development programme (EDP) was organized by PES Modern College of Pharmacy for Ladies to promote entrepreneurship in Pharmacy students on 18th October 2022 at 11am for D. Pharmacy, B. Pharmacy, M. Pharmacy students.

The topics for the programme was "Entrepreneurship, Creativity, and Innovation". The programme has started with the felicitation of Chief Guest by Dr. S.N. Dhole, PES Modern College of Pharmacy for ladies, Moshi. The introduction of Guest was given by our D. Pharm student Ms. Shweta Borcahte

Mr. Suresh Umap has discussed about Entrepreneurial Mind set, Entrepreneurial Qualities, Govt. Support and Schemes. He also trained students, how to look into the challenges the society is facing currently and how it can dealt in an entrepreneurial way. He also discussed about Introduction to Entrepreneurship, Motivation & Personality issues of Entrepreneurship, Business Opportunity Identification, Business Plan & Project Preparation, Financial Aspects of Entrepreneurship, and Technical Aspects

The participants expressed and demonstrated positive attitude towards entrepreneurship and expressed plans to start ventures in the near future. The participants were made aware with funding agencies to explore entrepreneurship ventures with appropriate business plans.

A total number of 120 students participated in the program. The sessions was informative and well appreciated by the participants. At the end of the programme Ms. Gayatri Garad delivered the vote of thank towards the guest.

Reso Juest Lecture I/C

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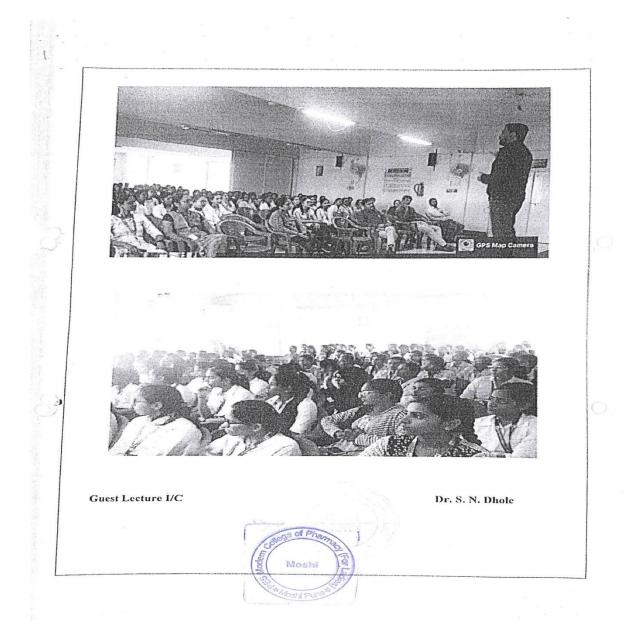


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Prof. Dr. G. R. Ekbote, (M.S., M.N.A.M.S.) Chairman, Business Council P.E. Society, Pune





Mr. Suresh B. Umap Retired Government Official delivering lecture on entrepreneurship



Guest lecture by Suresh Umap on 18/10/2022



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8	BHANDARE MANASWI LAXMAN	Manasvi	68	NILE VAISHNAVI RAMAKANT	VALLE
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23	DHAWADE SAKSHI NITIN		82 83	SANKPAL RUTUJA CHANDRKANT	
24	DHORAN SAMIKSHA SANJAY		84	SARODE TRUPTI SANTOSH	Patout
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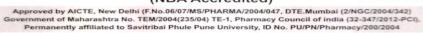
PES, Modern college of Pharmacy For Ladies, Moshi Pune S. Y. B. Pharm 2022-2023

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

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83	Sapate Tanuja Vagambar	Sapak	107	Yadav Salone Sanjay	Galoni
84	Satkar Sakshi Kalidas	Renk	108	Yelwande Ankita Dattatray	DOKOLY
85	Sawant Neha Vithal	Newart,	109	Zagade Janhavi Machindra	TSahhav
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Prof. Dr. S. N. Dhole M. Pharm., Ph. D. Principal

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	BATCH A			BATCH B			BATCH C			BATCH D			BATCH E	
1	Gayatri Aade	Gride	27	Sanika Dhore	V	53	Urwashi Jagdale	migdate	-78	Sneha Pansare	J.U.Pank	103	Vaibhavi Umap	Maden
2	AdalingeBhaghyashri	tolality	28	Shital Dindewad	M	- 54	Supriya Kadbhane	Suppe	79	Pratibha Parhad	Pratible	104	Srushti Vidhate	P
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5	Rutuja Ankushe	Bity	31		3.5.Go		Manisha Kevat	Manisha.		Sakshi Pathare	Paul	107	Sakshi Waghmare	Y
6	Akansha Arekar	Be	, 32	Nikita Gadhave	Radhau	R. 58	Pratiksha Kimbahune	Pratter	83	Bhagyashri Patil	BSPat	108	Vaishnavi Waghmare	
7	Misba Attar	Am	33	Vaibhavi Gandhi	Di	59	Pratiksha Kothawale	Formale	, 84	Kirti Patil	OnPati	109	Tanaya Walse	Tanay
8	Varsha Bangar		34	Shweta Gatkal	athent	60	Rutika – Kshirsagar	Purtke	85	Vaishnavi Patil	vett	. 110	Sejal Walunj	Jêja
9		Batilda	35	Anjali Gautam	20	61	Vaishnavi Labade	Kabado	86	Akshata Pawar	effor	111	Bhakare Mayuri	010
10	Nandini Bhavsar	Man	36	Arati Gavali	milit	62	Pranjal Landge	Picinjob	87	Priyanka Pharate	Annate	112	Bhangale Vrushali	St
1	Varsha Bhilare		37	Pranali Gavate	Kate	63	Pranjal Lokhande	Prens	88	Divya Rane	Place	113	Bijjasampada	E
2	Akshata Bhor	A han	- 38	Harshada Gaware	ABuet	64	Kalyani Madake	Frate	89	Prachi Ranjane		114	Borate Nikita	A
3	Sayali Bhor	findi	39	Priti Ghenand	Panu	5 L	Utkarsha Mahajan	Jeff.	90	Ankita Rathod		115	Choudhary Payal	ØY
4	Aishwarya Bhore	My	40	Prachiti Ghodake	Phodalic	66		hugard	-91	Divya Rathod	Pully	116	Date varsha	pale
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17	Bushra Bagwan		43	Vaishnavi Gupta	Bu.	69	Shravani Mule	302	94	Siddhi Sawal	goddlee	119	Jaiswal Janhavi	Adut .
18	Priya Chauhan	A.	44	Anuja Gurav	ger	70	Anushka Nagare	Av99.	95		Airthe	120	KabneAkankasha	Ala
19	Aishwarya Choudhari	6th	A5	Sakshi Gurav	yo	71	Pratiksha Nale	Mail	96	Aditi Shevkari	Adip.	121	Manekar Sharayu	Show
20	Ashwini Dafal	ALL ,	46	Anjali Hande	Hat	72	Prerana Nandkhile	pow	97	Harshita Singh	singh.	122	Mavkar Rutuja	0. tu
21	Anushka Deokar	Anushke	47	Kadambari Hankare	BY	73	Renuka Padavale	Ault	98	Rutuja Sonawane	K	123	Pawar Nikita	Miles
22	Sakshi Devsatwar	Sulesh	48	Sakshi Hiwale	g>	74	Suman Padwal	Anap	- 99	Siddhi Sonawane	Stenano	-+24	Salunkhe Sakshi	
23	Aditi Dhanawade	The .	49	Sakshi Holkunde	Jun	, 75	Amita Pakhare	Amit	100	Vaishnavi Sutar	Vint 1	125	Salve devyani	dr
24	Nikita Dhanawate	Mithita	50	Neha Jadhav	Buy	76	Pradnya Palaskar	Redry	101	Pranjal Taware	Fauere	126	Sangade varsha	Vaish
25	Dhanshri Dhawale	0129	~51	Pooja Jadhav 🖌	Tealbo	רבע	Kalyani Pandit	10	102	Punam Thigale	Rigal	127	Saste Neha	0.00
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Prof. Dr. S. N. Dhole M. Pharm., Ph. D. Principal

Ge

Date: 03/11/2022

DEMONSTRATION OF ALL PURPOSE EQUIPMENT

The All – Purpose equipment is ideal for small scale production in the pharmaceutical, chemical, cosmetic & food industries. It fits perfectly in to research & developments of tablets, ointments, creams & more.

Following steps to be followed while handling:

- I. Insert the mains cod in the power socket provided at the back panel of the main drive.
- II. Depending on the experiment kindly attach particular accessory either to the main drive directly or else through universal gear box depending on the type of accessory.

Note: Dry granulator, planetary mixer, homogenizer or triple roller mill can be attached directly to the main drive whereas remaining accessories can be attached through universal gear box

III. After attaching the particular accessory to the shaft of the universal gear box, please tighten the screw by using provided L key.

Note: Make sure that the accessory is properly attached to the main drive and or to the universal gear box, otherwise the respective accessory may sleep from the gear box while performing the experiment, also ensure that the lid of particular accessory is tightened properly.

- I. The control panel is provided with **EMERGENCY** switch to stop all the ongoing operations in case of emergency or any problem.
- II. Switch on the instrument by unlocking the EMERGENCY switch by rotating it in clockwise direction.
- III. Now as per the requirement set the operating mode of the all purpose equipment
- IV. Set the various parameters such as Speed, Temperature & Timer as per requirement & operating mode selected.
- V. To stop the experiment in manual mode as well as in auto mode, kindly press the stop key gently.
- VI. After completing the experiment, kindly rotated the speed controller knob toward zero position.
- VII. Prior to removing the accessory from the universal gear box or else from main drive, make sure that the instrument is set at OFF position or switched off.
- VIII. In case of spraying gun, always clean the nozzle of gun by spraying the solvent of the coating solution used and clean the nozzle thoroughly otherwise there are chances of blocking of the nozzle of the gun. (OPTIONAL ATTACHMENT)





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

A. Introduction:

The All Purpose Equipment consists of a main drive. Various accessories like Ball Mill, Double Cone Blender, Coating Pan, Polishing pan, V blender, Cube mixer can be attached to main drive through universal gear box while accessories like Dry granulator and Triple roller mill can be attached directly to the main drive.



B. Main Drive:

The horizontal main drive is completely maintenance free. The main drive consists of 0.50 H.P., single phase AC motor. The speed of motor can be controlled by AC motor drive in the range of 10 to 300 rpm depending up to the accessories attached. The main drive has following features:

- Digital SPEED indicator: range 10 to 300 rpm
- Digital Timer: 999 mins
- Digital temperature controller: 5°C above ambient to 150 °C
- Hot air pipe for coating pan
- Emergency switch
- Auto or Manual mode
- start/stop switch for motor control





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C. Attachments:

a. Universal Gear Box:

Accessories like Ball Mill, Double Cone Blender, and Coating Pan, Polishing pan, V blender & Cube mixer can be attached to the main drive through universal gear box only.



Prior to using the attachment with universal gear box kindly adjust the operating angle with respective to the main drive. The universal gear box allows adjusting the angle of operation from 0 to 60 degrees.

b. Ball Mill:

Ball mill is mainly used for grinding the crystalline material, for mixing dry material. Ball mill jar is made of S.S.





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Demonstration of All Purpose Equipment on 03/11/2022



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

	P		S.	ge of Pharmacy For I Y. B. Pharm 2022-20	23		unt	
		Hand	raining – All purpose	equipmer	it	•	<u>C:</u>	
Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
1	Atole Gauri	Plant	27	Falke Gitanjali B.	Phelly	53	Kedari Vaishali Mohan	Veneret
2	Amble Shruti Pramod	Amilde	28	Gadekar Rachana B	J.	54	Khaire Srushti Navnath	Show
3	Awale Sayali Hanumant	Cincol	29	Gaikwad Rutuja V	Pater.	55	Kharabi Siddhi Rahul	King
4	Bachkar Sonali Bhmaji		30	Gaikwad Samruddhi S	Samfuddl	56	Khule Pallavi Ashok	Falley 6.
5	Bagul Trupti Rajesh	Tupi	31	Gavade Sanika Kalidas	-	57	Kobal Sakshi Uttam	Kobal
6	Baskar Asvitha	11	32	Gaware Nikita K	NGWERE	58	Konde Khushi Amol	Kopalli
7	Bawane Sanyukta S	a	33	Ghanwat Snehal	Johnat	59	Kshirsagar Pratiksha D	Prediksha
	Bhangre Mrudula B	Ruge	34	Gharge Mrunal	wharge	60	Kumbhar Divya M	Divya
8		- Aug	35	Ghodke Vaishnavi		61	Lande Trupti Nilesh	
9	Bhavar Rutuja B		36	Gosavi Mansi	madeu	62	Lohar Rutuja Deepak	Fernia.
10	Bhilare Tejasvini Kiran Bhosale Gautami G	apolale	37	Harke Gayatri Sunil	GUE	63	Magar Swamini C	Sugar
11			38	Hule Sarthi Rajendra	Auch	64	Mali Mansi Sachin	manst.
12	Bhosale Saroj Biradar Shradda S	Shraddhe	39	Ingole Pooja Pramod	Poujo	65	Mali Vaishnavi B	Btreeli
13	Biradar Shradda S Birle Vaishnavi Sachin	1/11/194 -	40	Jadhav Akansha J	destel	- 66	Mane Nayan V	
14 15	Chaudhary Zainab G	Bay.	40	Jadhav Ketaki Pratap	Retaki	67	Mane Shreya Mahesh	Inaue
15	Dadas Vaishnavi Dhanaji	Dadly	42	Jawanjal Purva S	thight.	68	Manjare Pratiksha I	Ratitsha
10	Dagarwar Pranita	and the	43	Kadam Smita Poapt	Phila-	69	Marade Yogita V	
		- and and	44	Kale Anushka Shrikant	leskale	70	Mehasare Gayatri R	Gayatri
18	Dhadge Sharli Ravindra	Alikiha	45	Kale Dnyaeshwari K	graverau	71	Mohite Chaitali	amohite
19	Dhas Pratiksha		46	Kale Prachi Bhagavan	10	72	Mohite Rakhi Rajesh	Rakhi
20	Dhokane Aastha Sunil	Fosting	40	Kamble Sakshi Anand	Salth.	73	Momin Nida B	N.B.Momir
21	Dhole Akanksha S	(1)	47	Kanode Shweta Sanjay	Butter	74	More Sneha Santosh	Fullamore
22	Dhole Siddhi Bhausheb	ada	40	Kapale Anushree A	aystind	75	Navgire Janhavi Y	Saupari.
23	Dhormare Radha Avinash	muma		Kashid Snehal Popat	4 allet	76	Nikam Akansha	Attain
24	Dhumal Mayuri D	19231	9 51	Katoro Durva Rajendra	TURNO	77	Nikam Shruti	Sulous
25 26	Dhumane Isha Anand Doke Rutuja Jalindra	Rider	51	Katole Pulva Kajendra	P. Kedazi	78	Pacharne Charuta P	





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		S. Y. B. Phar	m 2022-20		
	Han	ds on training – A	ll purpose	equipment	Sign
Roll No	Name	Sign	Roll No	Name	Sign Risketty
79	Pachpande Tanmayee A	-	104	Shetty Diya	
80	Padwal Monika Ganesh	Menes	105	Shevkari Sayali	Sheilard.
81	Panchbhai Ovee Balraj	OVE	106	Shinde Swati	griedee
82	Pande Kanchan Manohar	Planchas	107	Sonar Sakshi Rahendra	Sabli
83	Pardeshi Vaishnavi Sudarshan	1	108	Sonavane Vipashana Prashant	Vipulanal.
84	Patil Kalika Raosaheb	Kalika	109	Sukre Sanika Kailas	R
85	Patil Deepali		110	Suryawanshi Prerana Sanjay	Prefause
86	Patil Indrayani Vijay	Marayan;	111	Talekar Tejal Suhas	Jerob.
87	Patil Mansi Prashant	E margir:	112	Talpade Arya Ajay	CuyFalfad
	Patil Vaishnavi Dinesh	Veam	113	Temkar Maya Uttam	Maylorb.
88	Punde Kshitija Rajendra	KSWEIJA	114	Thakur Anjali	Bhakup
89	Rathod Radhika	Brymyh	115	Thorat Rutuja Arun	Thomas
90		Skathed	116	Thorat Vaishnavi Vijay	- theral
91	Rathod Sonali	Reday	117	Thorbole Shradha Satish	Thorat
92	Reddy Aishwaraya Vishnu	- Put	118	Tikudwe Samidha Hanmantrao	SHRudue
93	Roundhal Akanksha	Vom Rays.	119	Tirkunde Madhavi Shrirang	-PA3Khunds
94	Sahare Kamini	Ault .	120	Vishwakarma Sakshi Lalji	Elashi
95	Sakpal Trupti Sudhir	aishe	121	Wagdare Falguni Ram	- Color
96	Salunke Vaishnavi Gitraj	Gopor.	122	Waghmare Ragini Madhav	Eagu
97	Sapate Tanuja Vagambar	Carte	123	Walwate Manisha Shivaji	
98	Satkar Sakshi Kalidas	- Out	124	Wavhal Sakshi Satosh	BEL
99	Satpute Jayshri	Newant	125	Yaday Kumkum Bachelal	Kuke
100	Sawant Neha Vithal	A	125	Yadav Salone Sanjay	Sysalow
101	Sawant Riya	Swaddla	120	Yelwande Ankita Dattatray	1º-
102	Sawant Shraddha Chandrkant	Talley .	127	Zagade Janhavi Machindra	Zagade.







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Date:14/01/2023

Report

Introduction: The demonstration of the Brookfield viscometer was conducted to educate students on the principles and applications of viscosity measurement in various industries. The session provided a comprehensive understanding of how the instrument works and its importance in ensuring product quality and consistency.

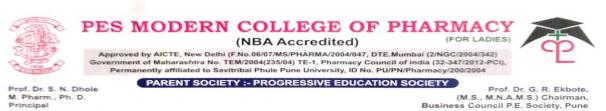
Equipment and Setup: The demonstration utilized a Brookfield viscometer, which is widely recognized for its accuracy and reliability in measuring the viscosity of liquids. The setup included the viscometer itself, a selection of spindles, and various samples of liquids with different viscosities. The students observed how the viscometer was prepared for use, including calibration and spindle selection based on the type of liquid being tested.

Procedure: The instructor began by explaining the theoretical background of viscosity and its significance in both industrial and laboratory settings. The principles of operation of the Brookfield viscometer were outlined, highlighting the rotational method used to measure the resistance of a liquid to shear.

The demonstration proceeded with the following steps:

- 1. **Calibration**: The viscometer was calibrated using a standard reference fluid to ensure accurate measurements. Students observed the importance of calibration in maintaining the precision of the instrument.
- 2. **Sample Preparation**: Different liquid samples, including oils, syrups, and gels, were prepared. The instructor emphasized the need for homogeneous samples to obtain reliable viscosity readings.
- 3. **Spindle Selection**: Depending on the viscosity range of the samples, appropriate spindles were chosen. The instructor explained how spindle geometry affects the measurement and the importance of selecting the correct spindle for accurate results.
- 4. **Measurement**: Each sample was measured by immersing the spindle into the liquid and allowing the viscometer to record the viscosity. The students noted the digital display readings and observed the changes as different spindles and speeds were used of *Pharma* values were discussed, and the
- 5. Data Recording: The recorded viscout values were discussed, and the students were shown here to prove the results. The instructor also

ochi, Pur



explained how factors such as temperature and shear rate could influence viscosity measurements.

Conclusion: The demonstration effectively illustrated the operation and significance of the Brookfield viscometer in various applications. The students gained hands-on experience and a deeper understanding of viscosity measurement, including the practical considerations involved in using the instrument. The session concluded with a Q&A, where students clarified their doubts and discussed the applications of viscosity measurements in real-world scenarios.

Overall, the demonstration was a valuable educational experience, reinforcing theoretical knowledge with practical insights and enhancing the students' appreciation for the role of viscometers in quality control and research.





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Snapshots of Demonstration Session:







PRINCIPAL PES Modern College of Pharmacy (For Ladies) Borhadewadi, At/Post-Moshi, Tal. Haveli, Dist. Pune-412 105.

Demonstration of Brookfield Viscometer on 14/01/2023



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Roll	Name	Sign	Roll	training - Brookfield Name	Sign	Roll	Name	Sign
No.			No.	1 mint	~- <u>-</u>	No.	Tunic	Sign .
1	Atole Gauri	Agaus	27	Falke Gitanjali B.	Gitarjali	53	Kedari Vaishali Mohan	Kuber
2	Amble Shruti Pramod	Smilele	28	Gadekar Rachana B	_	54	Khaire Srushti Navnath	Shami
3	Awale Sayali Hanumant	-	29	Gaikwad Rutuja V	Phi-	55	Kharabi Siddhi Rahul	Anat
4	Bachkar Sonali Bhmaji	I	30	Gaikwad Samruddhi S	Samuddhu	- 56	Khule Pallavi Ashok	Pallarin .
5	Bagul Trupti Rajesh	Trupte	31	Gavade Sanika Kalidas	-	57	Kobal Sakshi Uttam	Kobal
6	Baskar Asvitha	1	32	Gaware Nikita K	NGURE	-58	Konde Khushi Amol	Khumk
7	Bawane Sanyukta S	Ba	33	Ghanwat Snehal	92	59	Kshirsagar Pratiksha D	Draftksho
8	Bhangre Mrudula B	angt	34	Gharge Mrunal	tharge	60	Kumbhar Divya M	
9	Bhavar Rutuja B	Rub	35	Ghodke Vaishnavi	-	61	Lande Trupti Nilesh	
10	Bhilare Tejasvini Kiran	-	36	Gosavi Mansi	manney .	62	Lohar Rutuja Deepak	Retting .
11	Bhosale Gautami G	Gautamits	37	Harke Gayatri Sunil	hayaiti	63	Magar Swamini C	Shanini
12	Bhosale Saroj	-	38	Hule Sarthi Rajendra	Bull_	64	Mali Mansi Sachin	akansi.
13	Biradar Shradda S	Ehreddug.	- 39	Ingole Pooja Pramod	peopla.	65	Mali Vaishnavi B	BMali
14	Birle Vaishnavi Sachin	Warth	- 40	Jadhav Akansha J	Akareba	- 66	Mane Nayan V	
15	Chaudhary Zainab G	Den .	41	Jadhav Ketaki Pratap	betalcut.	67	Mane Shreya Mahesh	Shane
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20	Dhokane Aastha Sunil	Ashatre	- 46		Frank	72	Mohite Rakhi Rajesh	Ratch
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23	Dhormare Radha Avinash	ato	49	Kapale Anushree A	augure	75	Navgire Janhavi Y	
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80	Padwal Monika Ganesh	Belia	104	Shevkari Sayali	aperterio
81	Panchbhai Ovee Balrai	Tarilline	105	Shinde Swati	dinala
82	Pande Kanchan Manohar	Parale	100	Sonar Sakshi Rahendra	Jongr.s.R.
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84	Patil Kalika Raosaheb	Kalika.	100	Sukre Sanika Kailas	Same
85	Patil Deepali	Turn	110	Survawanshi Prerana Sanjay	Pieraum
86	Patil Indrayani Vijay	Androyou	111	Talekar Tejal Suhas	Tetal
87	Patil Mansi Prashant	Minsip	112	Talpade Arya Ajay	Autofalpad
88	Patil Vaishnavi Dinesh	TPate	113	Temkar Maya Uttam	Mangy
89	Punde Kshitija Rajendra	Kelvittia,	114	Thakur Anjali	Thatul
90	Rathod Radhika	Rymmy	115	Thorat Rutuja Arun	Protei
91	Rathod Sonali	SRatheg	116	Thorat Vaishnavi Vijay	Waishuit.
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94	Sahare Kamini	Komey	119	Tirkunde Madhavi Shrirang	Madelli T.
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97	Sapate Tanuja Vagambar	Bapate.	122	Waghmare Ragini Madhav	racqui
98	Satkar Sakshi Kalidas	Peuk	123	Walwate Manisha Shivaji	toate
99	Satpute Jayshri	-	124	Wavhal Sakshi Satosh	Bhe.
100	Sawant Neha Vithal	-	125	Yadav Kumkum Bachelal	Kurky .
101	Sawant Riya	Some	126	Yadav Salone Sanjay	salan
102	Sawant Shraddha Chandrkant	shraddha	127	Yelwande Ankita Dattatray	Albeande
103	Shenavi Tanyee Pravin	Tagers	128	Zagade Janhavi Machindra	Turnin







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Date:21/01/2023

Report

Introduction: The demonstration session of the Lyophilizer was arranged for students to enhance their knowledge of pharmaceutical sciences through emerging trends and innovative approaches. This session served as an effective educational practice, ensuring that students become familiar with novel methods used in formulation and development, research and development, and other related fields.

Demonstration Details: During the session, the overall concept and applications of freeze drying were explained to the students. This was followed by a detailed introduction to the components of the Lyophilizer and a step-by-step explanation of its operation. The primary objective was to provide a comprehensive understanding of the freeze-drying process, also known as lyophilization.

Outcomes of the Demonstration:

- 1. Students learned about the components of the Lyophilizer.
- 2. Students understood the techniques of lyophilization.
- 3. Students explored the various applications of lyophilization.

Freeze Drying: Freeze drying, or lyophilization, is the process of removing ice or other frozen solvents from a material through sublimation and removing bound water molecules through desorption. This method is critical for preserving heat-sensitive materials such as proteins, microbes, pharmaceuticals, tissues, and plasma. Controlled freeze-drying ensures that the product temperature remains low enough to prevent changes in the dried product's appearance and characteristics.

Sublimation Process: Sublimation occurs when a solid (ice) changes directly to vapor without passing through the liquid phase. This phase change requires heat energy. The freeze-drying process involves the following steps:

- 1. Freeze The product is completely frozen, typically in a vial, flask, or tray.
- 2. Vacuum The product is placed under a deep vacuum, below the triple point of water.

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3. Dry - Heat energy is added sousing the it to sublime.



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Steps in Lyophilization:

- 1. Pretreatment/Formulation
- 2. Loading into Containers (Bulk, Flask, Vials)
- 3. Freezing (Thermal Treatment) at atmospheric pressure
- 4. Primary Drying (Sublimation) under vacuum
- 5. Secondary Drying (Desorption) under vacuum
- 6. Backfill & Stoppering (for vials) under partial vacuum
- 7. Removal of the Dried Product from the Freeze Dryer

Lyophilizer Equipment Components:

- 1. Refrigeration System
- 2. Vacuum System
- 3. Control System
- 4. Product Chamber or Manifold
- 5. Condenser

Applications of Lyophilization: Freeze drying is used for preserving a wide range of substances without altering their composition. In aseptic pharmaceutical and biotechnology production, lyophilization is applied to:

- Antibiotics
- Bacteria
- Vaccines
- Hormones
- · Vitamins, enzymes, and peptides
- · Liposomes and collagen
- Plant and liver extracts
- Radio-immune assays





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• Blood plasma, plasma fractions, and antibodies

Conclusion: The demonstration session provided students with valuable insights into the components, techniques, and applications of lyophilization. This knowledge equips them with the understanding necessary to utilize freeze-drying methods effectively in pharmaceutical and biotechnological contexts.

Snapshots of Demonstration Session:







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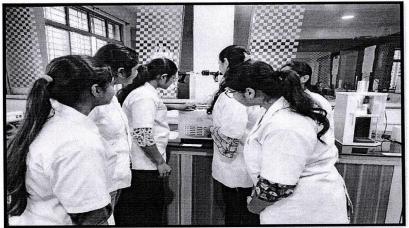
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Demonstration of Lyophilizer on 21/01/2023



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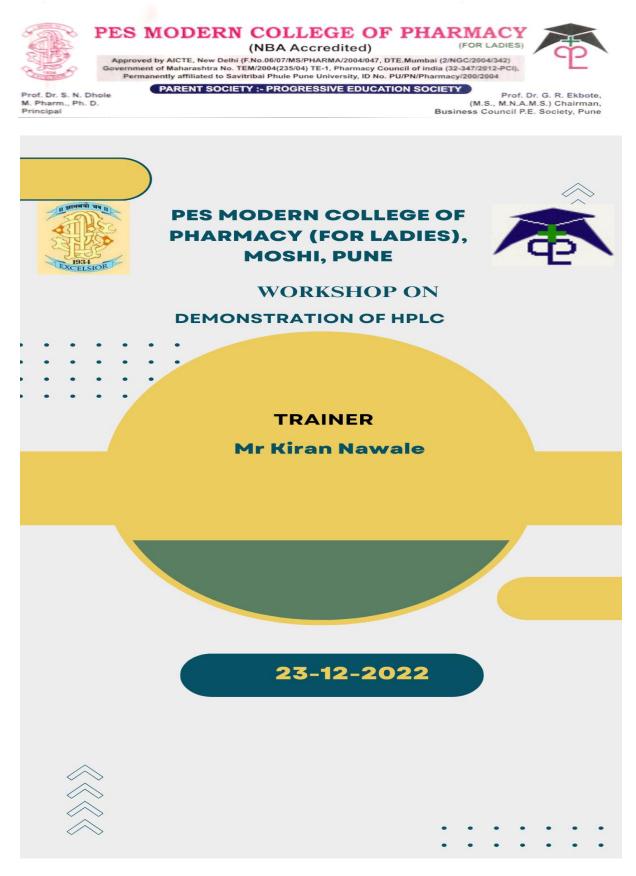
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ATTENDANCE Lyophilizer

Sr. No.	Name of Student	Sign
1.	Vaishnavi Eknath Bhosle.	VaisBnavi
2.	Nilu Chardhan	TO .
3.	Nilu Choudhow Suvarna prasado Gore	Suvarno
4.	Rufuja suresh Titkare	P. M. HCarp
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TRAINING CERTIFICATE

This is to certify that the following personnel of Modern college of Pharmacy (For ladies), Moshi, Pune will be using Shimadzu p-series HPLC Systems with PDA detector have been trained by certified technician authorized by Shimadzu Corporation on the following subjects.

- 1) Basic fundamentals of HPLC/UPLC
- 2) Equipment Setup
- 3) Labsolutions Software
- 4) Maintenance and troubleshooting of Instrument

Trainer: Mr. Kiran Nawale (Workflow Specialist)

Signature:

Date : 23rd December 2022

List of Trainees:

S/N	Name	Designation	E-Mail ID	Mob. No.	Sign
1	Dr. Vijaya Vichare	Asso. Professor	Vicharevijaya11@gmail.com	9049086245	tte .
2	Mrs. Soniya Ausekar	Lab Assistant	NA	NA	Bart
3	Miss. Dhanshri Borchate	Student	NA	NA	Hunghi
4	Miss. Nilam Jankar	Student	NA	NA	Alfantoz





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(FOR LADIES)



Workshop on **Demonstration of Plethysmometer**

Trainer: Atre Bhagyashree

Date: 03/02/2023



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Dr. S. N. Dhole rm., Ph. D al Pha

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A demonstration of digital Plethysmometer

Report

A demonstration session for the digital Plethysmometer was held on Friday, February 3rd, 2023, at 3:00 PM for third B. Pharm students. The session aimed to provide students with a comprehensive understanding of the instrument's principles, operation, and applications in pharmaceutical research. The Plethysmometer is a device used to measure changes in paw volume, often employed to assess inflammation. The hands-on experience, combined with theoretical knowledge, equips students with valuable skills for their future careers.

Objectives

- Familiarize students with the digital Plethysmometer and its components.
- Explain the working principles and mechanisms of the Plethysmometer.
- Demonstrate practical applications of the instrument in pharmaceutical research.
- Provide hands-on experience using the Plethysmometer to measure paw volume changes.
- Enhance understanding of data interpretation and analysis from Plethysmometer readings.

Principles of Digital Plethysmometer

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

- Volume Displacement: The instrument measures the displacement of fluid 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.
- Amplifier: Increases the signal strength for improved accuracy.
- Digital Display: Shows the volume changes in readable units.
- Software Interface (optional): Allows Par Al Peon king, analysis, and storage.





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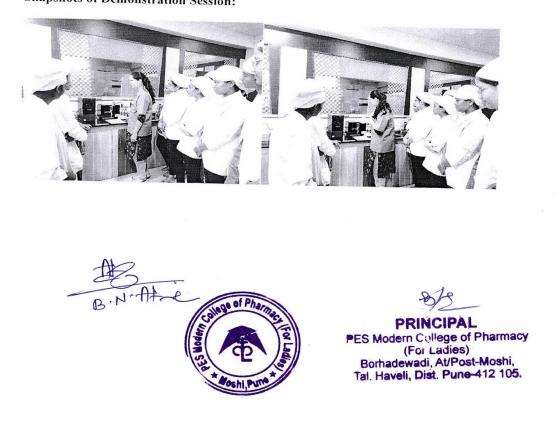
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4. Hands-On Experience in Measuring Changes in Paw Volume

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:**



Demonstration of Digital Plethysmometer on 03/02/2023



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Demonstration of digital plethysmometer.

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Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
	BATCH A			ВАТСН В			BATCH C	
1	Gayatri Aade	games-	27	Sanika Dhore	()	53	Urwashi Jagdale	Unus
2	AdalingeBhaghyashri	gun -	28	Shital Dindewad)	54	Supriya Kadbhane	Kenhos
3	Shraddha Adhav	Crow	29	Akanksha Doiphode	JADOLAC.	55	Shital Kardile	Shita
4	Rucha Akanikar	quet	30	Harshada Dolare	- Contraction	56	Pranjal Katkar	Barlo
5	Rutuja Ankushe	Ankest	231	Sakshi Gade	10-ED	57	Manisha Kevat	Kabat
6	Akansha Arekar	Que	32	Nikita Gadhave	KILL	58	Pratiksha Kimbahune	pratu
7	Misba Attar	Mist	33	Vaibhavi Gandhi	Gauli	59	Pratiksha Kothawale	poablish
8	Varsha Bangar	Bangan	-34	Shweta Gatkal	Geral	60	Rutika Kshirsagar	Ruta
9	Pratiksha Bhandarkar	Apout	35	Anjali Gautam		61	Vaishnavi Labade	Vanto
10	Nandini Bhavsar	190000c	36	Arati Gavali	Add -	62	Pranjal Landge	Enun
11	Varsha Bhilare	Bulon	37	Pranali Gavate		63	Pranjal Lokhande	Frank
12	Akshata Bhor	Egh	38	Harshada Gaware	Storghouts	64	Kalyani Madake	total up
13	Sayali Bhor	pton	39	Priti Ghenand	1. AT	65	Utkarsha Mahajan	Uthe
14	Aishwarya Bhore	Alshung	- 40	Prachiti Ghodake	sochite.	66	Gayatri Mahamuni	aufert
15	Mrunmayi Bhosale	quote	41	Rutuja Ghundare	thaty	67	Ashwini Mohite	detrives
16	Manaswi Bhurkud	Bhup	42	Vedanti Gulhane		68	Savali More	APRO-
17	Bushra Bagwan	Bushne	- 43	Vaishnavi Gupta	Vairas.	69	Shravani Mule	Autes
18	Priya Chauhan	Bya.	44	Anuja Gurav	Foural. A	70	Anushka Nagare	Wagares
19	Aishwarya Choudhari	houdburg	45	Sakshi Gurav	4	71	Pratiksha Nale	Ardin
20	Ashwini Dafal	Dehuin	- 46	Anjali Hande	INab	72	Prerana Nandkhile	Prezza
21	Anushka Deokar	Tookan	47	Kadambari Hankare	Hanker	73	Renuka Padavale	Renuk
22	Sakshi Devsatwar	125 M	48	Sakshi Hiwale	10	74	Suman Padwal	Fature
23	Aditi Dhanawade	Actimite	-49	Sakshi Holkunde	with	75	Amita Pakhare	Amto
24	Nikita Dhanawate	NAN	50	Neha Jadhav	A Tables	76	Pradnya Palaskar	the states
25	Dhanshri Dhawale	Soute	51	Pooja Jadhav	Pahous	77	Kalyani Pandit	talmi
26	Ritika Dhonge	ROAK	52	Pallavi Jadhavar	07	78	Sneha Pansare	Tophe





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1	Division A-Roll No.1	to 64				Division B-Roll No.65 to 127
	Name	Sign	Roll No	Name	Sign	
	BATCH D	1110		BATCH E		
79	Pratibha Parhad	fratible	105	Prachi Wadekar	P6055×	
80	Nikita Parve	- AUTHAL	106	Vaishali Wagh	Necuici	
81	Janhavi Pasme	Roin	107	Sakshi Waghmare	Sakshi	
82	Sakshi Pathare	50000	108	Vaishnavi Waghmare	Champleo Car	
83	Bhagyashri Patil	Pagetto	109	Tanaya Walse	webz	
84	Kirti Patil	Part.	110	Sejal Walunj	Selas	
85	Vaishnavi Patil	Valledti	111	Bhakare Mayuri	Imastrik	
86	Akshata Pawar	03	112	Bhangale Vrushali	Burres	
87	Priyanka Pharate (Kanne	113	BijjaSampada	Otha	
88	Divya Rane	Aller	114	Borate Nikita	NIPE	
89	Prachi Ranjane	Panter	115	Choudhary Payal	dade	
90	Ankita Rathod	ANE TRA	116	Date varsha	washe	
91	Divya Rathod	Rolling	117	Gavle Shruti	Aure	
92	Prajakta Salunke	projakty	118	Jadhav Jyoti	Etchay	
93	Anagha Saste	Ancel	119	Jaiswal Janhavi	TUMATOR	
94	Siddhi Sawal	ALPHO	120	KabneAkankasha	I DE	
95	Aishwarya Selsurekar	AISMUUARE	121	Manekar Sharayu	mante	
96	Aditi Shevkari	State	122	Mavkar Rutuja	Matter	
97	Harshita Singh	Haspita	123	Pawar Nikita	Pare	
98	Rutuja Sonawane	Solution	124	Salunkhe Sakshi	GONES	
99	Siddhi Sonawane	Siddlet	125	Salve Devyani	Deryon	
100	Vaishnavi Sutar	Tayle	126	SangadeVarsha	Same	
101	Pranjal Taware	prantat	127	Saste Neha	Neng	
102	Punam Thigale	Dancy				
103	Vaibhavi Umap	Vablest				
104	Srushti Vidhate	Vidents				







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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

Demonstration of Aseptic Area

<u>Report</u>

The demonstration session of Aseptic Area was arranged on 15/02/2023, Saturday at 10:00 am for students of Second 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 be aware of novel approaches that can be used in Formulation and development, Research and Development, etc.

In this demonstration session, arrangements as well as applications of the Aseptic Area, are explained to students. Followed by an introduction of the entire components of the Aseptic Area and its stepwise working in detail.

The outcome of the demonstration:

- 1. Students learned the components of the Aseptic Area.
- 2. Students understood the role and importance of the Aseptic area in pharmaceutical industries.

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3. Students understood different applications of Aseptic area

Snapshots of Demonstration Session:



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Demonstration of Aseptic area on 15/02/2023



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Roll No.	Name	Sign	Roll No.	Name	Sign
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81	Panchbhai Ovee Balraj	AVE	106	Shinde Swati	Shires
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85	Patil Deepali		110	Suryawanshi Prerana Sanjay	Prevang
86	Patil Indrayani Vijay	andrayau	111	Talekar Tejal Suhas	Texas
87	Patil Mansi Prashant	-	112	Talpade Arya Ajay	-thyatalpad
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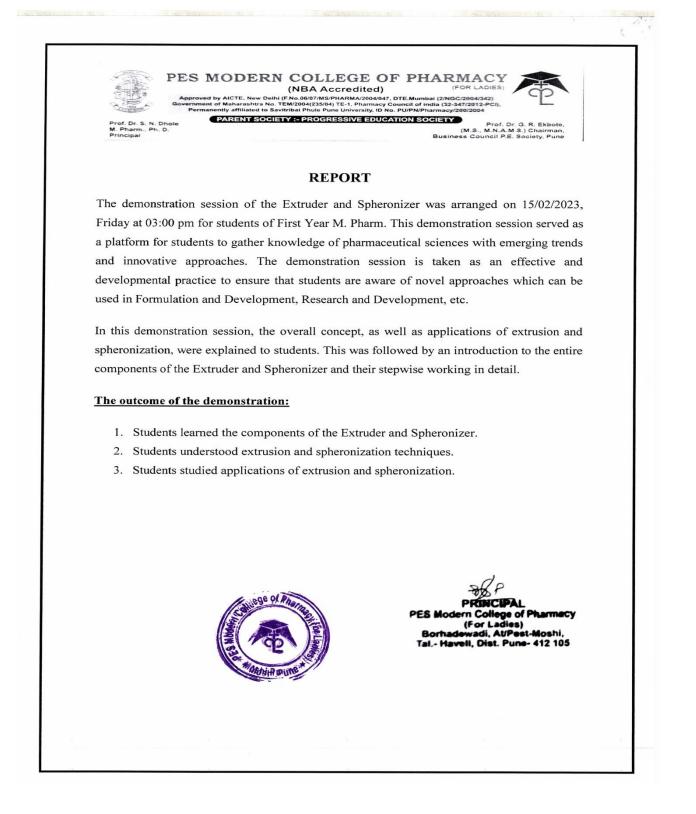


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DEMONSTRATION OF EXTRUDER AND SPHERONIZER

Extrusion and Spheronization:

Extrusion and spheronization is a multi-step process used to produce uniform spherical pellets (spheroids) from a wet mass. This process is widely used in the pharmaceutical industry to create controlled-release dosage forms, improve flow properties, and enhance the uniformity of the final product.

Principle of Extrusion and Spheronization:

The process involves extruding a wetted mass through a die to form cylindrical extrudates, which are then broken into smaller segments and rounded into spheres in a spheronizer. This method ensures high sphericity and uniform size distribution of the pellets, which is crucial for consistent drug release profiles.

The steps required for extrusion and spheronization can be summarized as follows:

- **Mixing:** Combine the active pharmaceutical ingredient (API) with excipients and a binder solution to form a wet mass.
- **Extrusion:** Feed the wet mass into an extruder to produce cylindrical extrudates.
- **Spheronization:** Transfer the extrudates to a spheronizer, where they are broken into smaller segments and rounded into spheres.
- Drying: Dry the spherical pellets to remove any residual moisture.
- Screening: Screen the dried pellets to achieve the desired size distribution.





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EXTRUDER AND SPHERONIZER EQUIPMENT: The main components of extruder and spheronizer equipment are:

- **Extruder:** Device used to push the wet mass through a die to form cylindrical extrudates. It typically includes a hopper, screw, and die plate.
- **Spheronizer:** A rotating plate with a grooved surface that breaks the extrudates into smaller segments and rounds them into spheres.
- **Mixer/Granulator:** Used to prepare the wet mass by combining the API, excipients, and binder solution.
- **Dryer:** Equipment used to remove moisture from the spherical pellets, such as a fluid bed dryer or tray dryer.
- Sieve/Screener: Used to separate pellets based on size to ensure uniformity.

Applications of Extruder and Spheronizer:

Extrusion and spheronization are used in a wide range of pharmaceutical applications, often applied to the following products and processes:

- **Controlled-Release Formulations:** Creating pellets that release the drug at a controlled rate.
- Taste Masking: Encapsulating bitter drugs in spheroids to mask their taste.
- **Pelletization:** Producing pellets that can be filled into capsules or compressed into tablets.
- **Multi-Particulate Systems:** Developing dosage forms with multiple APIs in a single dosage unit.
- **Improved Flow Properties:** Enhancing the flow properties of powders and granules.
- Uniform Drug Distribution: Ensuring consistent drug content in each pellet for uniform dosing.





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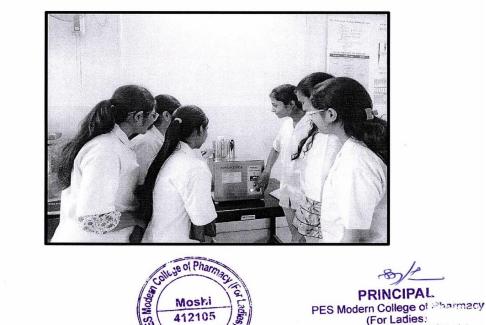
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(For Ladies:

Borhadewadi, At/Post-Manali, laveli Dist Pune-412 105

Snapshots of Demonstration Session:





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PRINCIPAL

PES Modern College of Pharmacy (For Ladies) Borhadewadi, At/Post-Moshi, Tal. Haveli, Dist. Pune-412 105.

Demonstration of extruder and spheronizer on 15/02/2023



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Extruder & Spheronizer-Attendance

PES Modern College of Pharmacy (for Ladies), Moshi

Academic Year : 2022-23 Name of course & year : - M.Pharm Pharmaceutics

Roll No.	Name of Candidate	Sign
1	APHALE KIRAN SANTOSH	Kizan -
2	BHOSLE VAISHNAVI EKNATH	Daish
3	GHUGE SHIVANI JAGANNATH	Shivani
4	GORE SUVARNA PRASAD	Sure
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11	PRIYANKA SANJAY SONI	Bost
12	SHELAR PRANJALI PRALHAD	Bhelor
13	THORAT SNEHAL RAJENDRA	Anapal
14	TITKARE RUTUJA SURESH	15 work
15	TODKAR SHRADDHA SANDEEP	Sedder
16	UMATE TANUJA YOGANAND	Tanuja
17	WAGHMARE PRATIKSHA S	Pratishe







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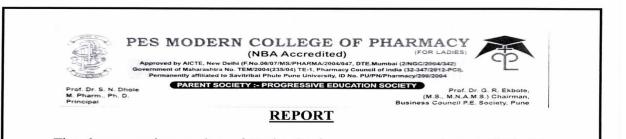
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The demonstration session of Probe Sonicator was arranged on 17/02/2023, Friday at 03:00 pm for students of First Year M. Pharm. This demonstration session served as a platform for students to gather knowledge of pharmaceutical sciences with emerging trends and innovative approaches. The demonstration session is taken as an effective and developmental practice to ensure that students are aware of novel approaches which can be used in Formulation and development, Research and Development, etc.

In this demonstration session, the overall concept, as well as applications of ultrasonic homogenization, are explained to students. This was followed by an introduction to the entire components of the Probe Sonicator and its stepwise working in detail.

The outcome of the demonstration:

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



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DEMONSTRATION OF PROBE SONICATOR

Ultrasonic Homogenization:

Ultrasonic homogenization is the process of using ultrasonic waves to reduce the size of particles in a liquid, creating a uniform mixture. This process is commonly used in the preparation of nanoemulsions, cell lysing, and particle size reduction in pharmaceutical formulations. It is an excellent method for ensuring uniform particle size distribution and enhancing the solubility and bioavailability of pharmaceutical substances.

Principle of Ultrasonic Homogenization:

The probe sonicator uses high-frequency ultrasonic waves to create cavitation bubbles in a liquid. When these bubbles collapse, they generate intense shock waves and localized high temperatures and pressures, which help break down particles and cells. This process can be controlled precisely to achieve the desired level of homogenization.

The steps required to use 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 start 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 are:

- 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:

There is a wide range of applications for ultrasonic homogenization in pharmaceutical and biotechnology production, often applied to 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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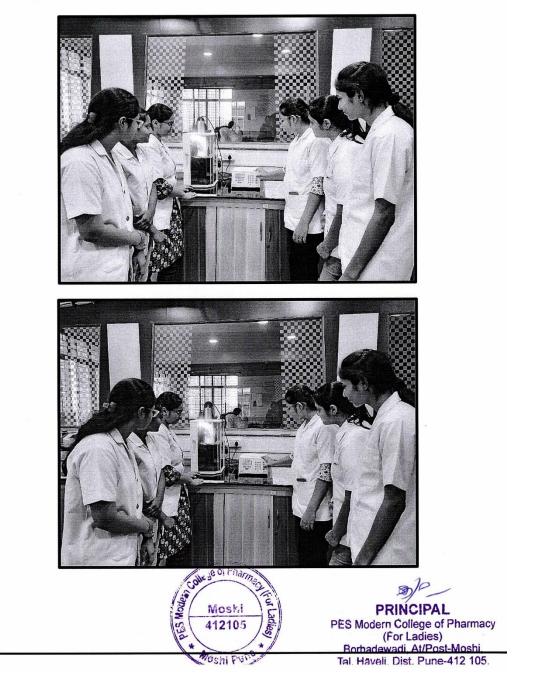
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Snapshots of Demonstration Session:



Demonstration of Probe Sonicator on 17/02/2023



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Probe Sonicator - Attendance

PES Modern College of Pharmacy (for Ladies), Moshi

Academic Year : 2022-23 Name of course & year : - M.Pharm Pharmaceutics

Roll No.	Name of Candidate	Sign
1	APHALE KIRAN SANTOSH	Kiran
2	BHOSLE VAISHNAVI EKNATH	Natch
3	GHUGE SHIVANI JAGANNATH	Shivani
4	GORE SUVARNA PRASAD	Niore
5	HARAKAL POOJA DNYANOBA	Harrorke R.P.
6	KAPALE NIKITA PRAVIN	N1848
7	KHADE KOMAL SATISH	Not and a stand
8	KHEDKAR SANSKRUTI V	Khedkas
9	LONDHE PRATIKSHA SACHIN	R
10	MUNJAL POOJA SUDAMRAO	Pooja
11	PRIYANKA SANJAY SONI	Bandy
12	SHELAR PRANJALI PRALHAD	Bhelas.
13	THORAT SNEHAL RAJENDRA	Subal
14	TITKARE RUTUJA SURESH	Eusebh
15	TODKAR SHRADDHA SANDEEP	Stallar.
16	UMATE TANUJA YOGANAND	Tanuji
17	WAGHMARE PRATIKSHA S	Brefrak



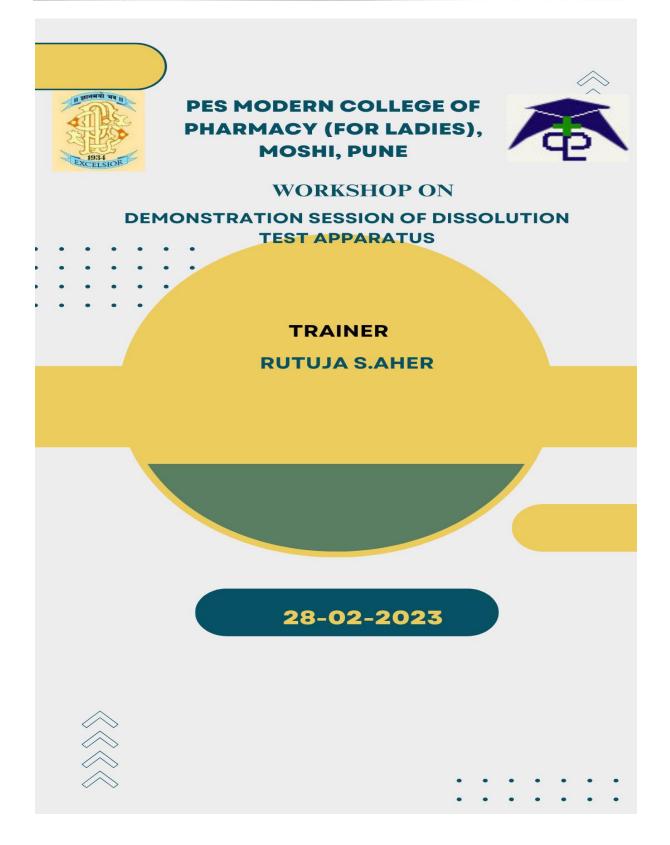


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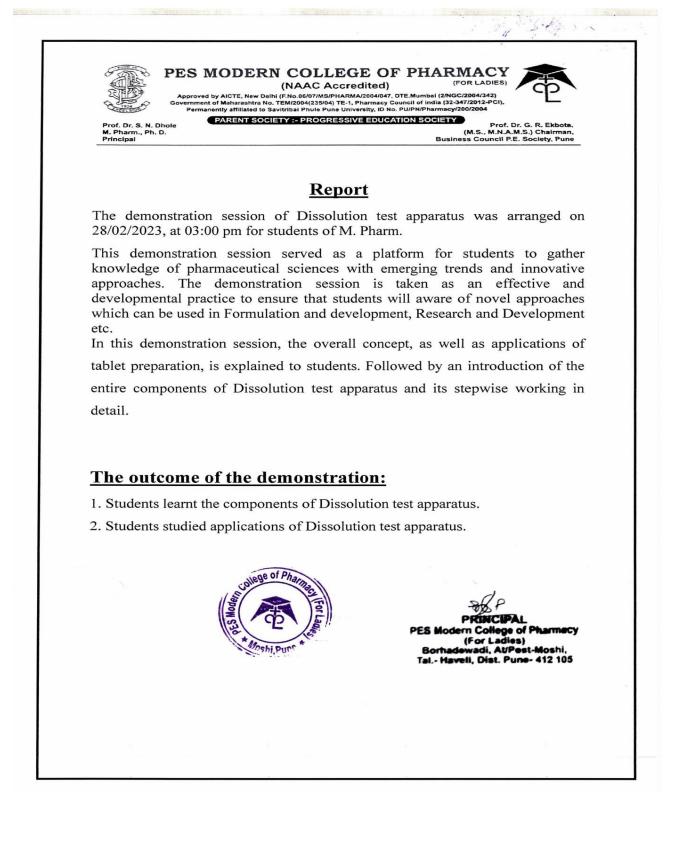
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Demonstration of Dissolution Test Apparatus

Dissolution is a technique in which a solid substance solubilizes in a given solvent i.e. mass transfer from the solid surface to the liquid phase.

The principle for carrying these tests is that, for a product to be therapeutically efficient, the drug must be discharged from the product and should broadly be dissolved in the fluids of the gastrointestinal tract. The API in solution form helps the absorption of the drug from the gastrointestinal tract into the systemic circulation to achieve its desired target area to exert its effect. The data received as a result of dissolution examination guides the development of novel formulation and product development and also dissolution isnecessary for regulatory approval for product marketing.

Types of Tablet Dissolution Apparatus: The different types of tablet dissolution apparatus as per USP include:

- 1. Basket type
- 2. Paddle type
- 3. Reciprocating cylinder
- 4. Flow through cell
- 5. Paddle over disc
- 6. Rotating cylinder
- 7. Reciprocating disc

OPERATING PROCEDURE-

1. Fill the acrylic tank with Distilled water up to the level marked.

2. Fill the dissolution vessel with 900 ml or as per specification of the dissolution media as

marked on the vessel.

- 3. Cover the dissolution vessel with acrylic lid.
- 4.Fit the thermometer to the acrylic lid.
- 5. Switch on electrical supply and main switch on machine.
- 6. Switch on the heater.
- 7.Enter the digit to set date and then press ENTER key.





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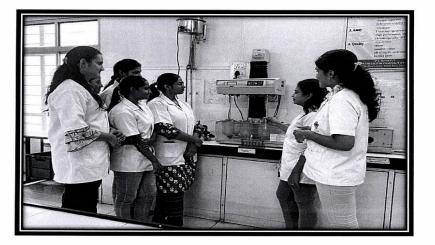
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Snapshots of Demonstration Session:





Demonstration of Dissolution test apparatus on 28/02/2023



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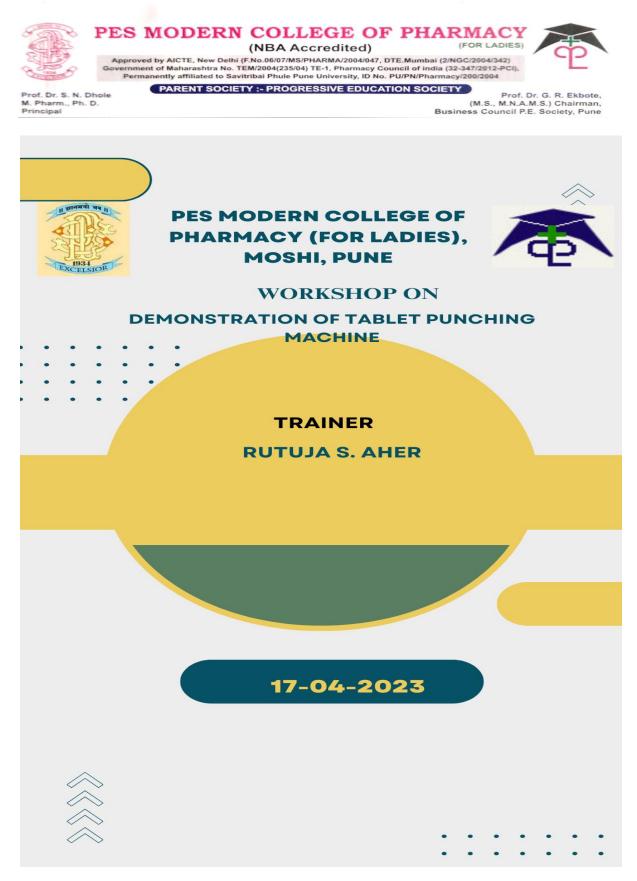
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F. Y. M. Pharm 2022-2023

Hands on training -Dissolution Test Apparatus

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Roll No	Name of Students	Signature
Ly	NIM Choudhary	A .
16	Téjal Saluntane	ABalmin
12	Sakshi Mohite	Elelit.
03	Knanti biradan	Kranti
۶ ۲	Monika Kute	Mat
10	Manisha Katkade	Westade
13	Aaeth Patil	fatil.
06	Susbing Ghuge	Ohnge.
07	Vaishnavi Ithape	VErhope.
09	Tanufa Kakade	farade.
10	Pooja Murijal	Proja-
11 -	Priyanka Soni	Appe. Harade. Breja- Brai
7	Komal Khade	Komal
5	Harkal pooja	TARION
3	Giluge Chivani	Thegel
16	Umate tonyiq	Junij a
02	Vaishnavi Bhosle	Natspinett
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08	khedkar Sanskrieti	Bungkrowti
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12	pranjeli shelar	francise





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Report

The demonstration session of Rotary Tablet Punching Machine

was arranged on 17/04/2023, Friday at 03:00 pm for students of Second 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, the overall concept, as well as applications of tablet preparation, is explained to students. Followed by an introduction of the entire components of Rotary Tablet Punching Machineand itsstepwise working in detail.

The outcome of the demonstration:

- 1. Students learnt the components of Rotary Tablet Punching Machine.
- 2. Students studied applications and formulation of tablet.



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Demonstration of Rotary Tablet Punching Machine

Multi station presses are termed rotary because the head of the machine that holds the upper punches, dies and lower punches in place rotates.

Working principle of Compression Machine:

- 1. Filling and Dosing of the Dies
- 2. Compression of the Tablets
- 3. Ejection and Exit of the Tablets

OPERATING PROCEDURE

- 1. Ensure that electrical supply is disconnected before starting machine setting.
- 2. The machine should not be operated without guards in the correct position.
- 3. Proper lubrication must be maintained throughout the compression process.
- 4. Check punches and dies cleanliness.
- 5. Rotate machine turret and check that turret rotates freely.
- 6. Check that pressure wheels are free and pressure is released.
- 7. Check that sockets of upper/lower punches and dies are properly cleaned.
- 8. Fit dies using die rod. Ensure that die is fitted in turret, tighten die by holding screws.
- 9. Rotate hand wheel and check that all lower punches move freely, 10. Fit upper punches.

11. Close lower punch guard covers and feet the feed frame and check the clearance with turret.

12. Fix hopper in such way, so as to give 3-5mm clearance from turrets for free flow granules to the feed frame.

13. Rotate hand wheel and check that machine is free.

- 14. Check that tablet and granules containers, and polythene bags, etc. for cleanliness.
- 15. Load granules/ power in hopper, rotate machine by hand to fill feed-frame and dies.

16. Apply pressure just to form tablet. Check weight of the tablet of phildren increase the pressure to produce required thickness of the tablets.





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Snapshots of Demonstration Session:





Demonstration of Tablets punching machine on 17/04/2023



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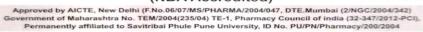
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4	Bachkar Sonali Bhmaji	-	30	Gaikwad Samruddhi S	gamenudel	56	Khule Pallavi Ashok	Jalland k
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6	Baskar Asvitha	-	32	Gaware Nikita K	Rikita	58	Konde Khushi Amol	dusie
7	Bawane Sanyukta S	a,	33	Ghanwat Snehal	-	59	Kshirsagar Pratiksha D	Pratikylid
8	Bhangre Mrudula B	mar	34	Gharge Mrunal	Alma	60	Kumbhar Divya M	-
9	Bhavar Rutuja B	Kurte	35	Ghodke Vaishnavi	-	61	Lande Trupti Nilesh	2
10	Bhilare Tejasvini Kiran	-	36	Gosavi Mansi	Russey	62	Lohar Rutuja Deepak 🥤	Rutuje.
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13	Biradar Shradda S	shraddha."	39	Ingole Pooja Pramod	Pour	65	Mali Vaishnavi B	Bthalf
14	Birle Vaishnavi Sachin	Viewer,	40	Jadhav Akansha J	Ander	66	Mane Nayan V	-
15	Chaudhary Zainab G	-Baht.	41	Jadhav Ketaki Pratap	Kohi	67	Mane Shreya Mahesh	Buane .
16	Dadas Vaishnavi Dhanaji	Dadey,	42	Jawanjal Purva S	KUYUM '	68	Manjare Pratiksha I	Bratikaha
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18	Dhadge Sharli Ravindra	Dunie .	44	Kale Anushka Shrikant	Akab	70	Mehasare Gayatri R	Cayati
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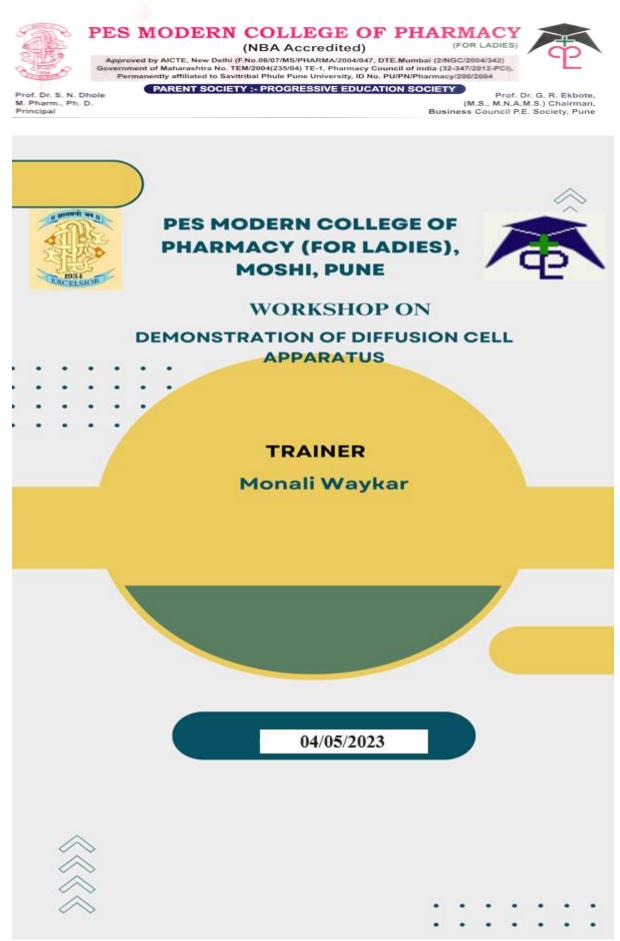


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PES, Modern college of Pharmacy For Ladies, Moshi Pune S. Y. B. Pharm 2022-2023 Hands on training – Tablet Compression Machine										
Roll No	Name	Sign	Roll No	Name	Sign					
79	Pachpande Tanmayee A	0.1	104	Shetty Diya	and and					
80	Padwal Monika Ganesh	Belit	105	Shevkari Sayali	Gheuken					
81	Panchbhai Ovee Balraj	Narchines	106	Shinde Swati	Salitate-					
82	Pande Kanchan Manohar	K Panay	107	Sonar Sakshi Rahendra	fonar.S.R.					
83	Pardeshi Vaishnavi Sudarshan		108	Sonavane Vipashana Prashant	Vipannigens					
84	Patil Kalika Raosaheb	Kalilan.	109	Sukre Sanika Kailas	salu					
85	Patil Deepali	:	110	Suryawanshi Prerana Sanjay	Prevanta					
86	Patil Indrayani Vijay	androwyour	111	Talekar Tejal Suhas	Fefal					
87	Patil Mansi Prashant	(norig:	112	Talpade Arya Ajay	- 2gatapad					
88	Patil Vaishnavi Dinesh	Verm	113	Temkar Maya Uttam	Maya					
89	Punde Kshitija Rajendra	tshihig ,	114	Thakur Anjali	Shatus					
90	Rathod Radhika	pmpmy.	115	Thorat Rutuja Arun	RTLorat					
91	Rathod Sonali	-SRathod	116	Thorat Vaishnavi Vijay	Vaishunden					
92	Reddy Aishwaraya Vishnu	-	117	Thorbole Shradha Satish	Aberbe e					
93	Roundhal Akanksha	-	118	Tikudwe Samidha Hanmantrao	Samicher					
94	Sahare Kamini	Kemfett	119	Tirkunde Madhavi Shrirang	made					
95	Sakpal Trupti Sudhir	Junter.	120	Vishwakarma Sakshi Lalji	Statu					
96	Salunke Vaishnavi Gitraj	Haish	121	Wagdare Falguni Ram	A					
97	Sapate Tanuja Vagambar	Sopate	122	Waghmare Ragini Madhav	Logy					
98	Satkar Sakshi Kalidas	Que	123	Walwate Manisha Shivaji	batte					
99	Satpute Jayshri	-	124	Wavhal Sakshi Satosh	BC.					
100	Sawant Neha Vithal	-	125	Yadav Kumkum Bachelal	Kunthan					
101	Sawant Riya	gunt	126	Yadav Salone Sanjay	6: Alaloni					
102	Sawant Shraddha Chandrkant	Anaddra	127	Yelwande Ankita Dattatray	Ayelwande					
103	Shenavi Tanyee Pravin	- Colle	COT Ph28	Zagade Janhavi Machindra	eagade .					







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Diffusion Cell Apparatus Report

Diffusion Cell Equipment Installation was done in Central Instrument Room on 4 May 2023 following Standard operating procedure for handling of equipment was explained during the installation process.

1.Place the diffusion cell apparatus on the level surface.

2. Connect required power supply to the instrument.

3. Place the receptor compartment of diffusion cells in cell holders as per marking.

4. Insert the magnetic stirrer bar in receptor compartment of each cell

5. Pour the right amount of dissolution solution or media solution in each cell

6. Insert the power cord of magnetic stirrer drive and water tank into power plug

7.Switch on the magnetic stirrer drive

8. Set the desired RPM by using the RPM keypad and adjust the electromagnetic induction by using the induction knob.

9. Always increase or decrease RPM slowly and gradually with adjustments of magnetic induction simultaneously.

10.Make all water circulation connections using provided silicon tubing and interconnecting levers.

11. Switch on the water circulation tank

12.Set desired temperature on temperature controller

13.Switch on the water circulation pump.

14. Always ensure that the stopcock is in on position prior to starting the water circulation pump 15. Place the membrane on the receptor compartment and place donor compartment and tight the assembly by using millipore type clamp

16. The experiment must be started when the set temperature value and speed of the magnetic stirrer is reached.

17. Apply the formulation to be tested on the membrane.

18. Take the samples from the sampling port at the desired time intervals using a syringe.

19. After completion of experiment, remove the water in the circulating tubing as per process below:

a.Switch off the water circulation pump and magnetic stirrer drive.





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b .Turn off the tank water out stopcock

c.Connect the tip of the large syringe supplied with the instrument to the end of the removed silicon tube.

d.Remove the circulating water by pulling the syringe plunger.

E. Drain the water in the water circulation tank.

20.Remove the cell and tube connections and dismantle the assembly.



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Demonstration of Diffusion Cell Apparatus on 04/05/2023



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Attendance during training

Topic of Training: Installation& working of "Diffusion Cell Apparatus" Date: 04/05/2023

Time:2.00 pm -03:00pm

Sr No.	Name of the faculty	Signature
1.	Mr. Tanuja Sawant	Aluch
2.	Mr. Deepak Shimpi	a
3.	Ms.AshwiniPagare	
4.	Mr. Kadam Ganesh Tukaram	GER
5.	Mr. GhanvatKeshavJagannath	Ghs
6.	Mr. PravinSarjeraoPatole	Stole +
7.	Mrs.BhiseSurekhaSubhash	SSIBLISE.
8.	Mr.SoniyaAusekar Prasad	Bang .

Activity Co-ordinator

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IQAC Co-ordinator

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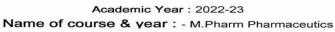
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Roll No.	Name of Candidate	Sign
1	APHALE KIRAN SANTOSH	Kiran
2	BHOSLE VAISHNAVI EKNATH	Natsh
3	GHUGE SHIVANI JAGANNATH	Shivani,
4	GORE SUVARNA PRASAD	Sume
5	HARAKAL POOJA DNYANOBA	Harrarkel
6	KAPALE NIKITA PRAVIN	N1848
7	KHADE KOMAL SATISH	N How Me
8	KHEDKAR SANSKRUTI V	genedkas
9	LONDHE PRATIKSHA SACHIN	Ro
10	MUNJAL POOJA SUDAMRAO	Pooja
11	PRIYANKA SANJAY SONI	Barrise
12	SHELAR PRANJALI PRALHAD	Bhelos.
13	THORAT SNEHAL RAJENDRA	Subal
14	TITKARE RUTUJA SURESH	Ewsell
15	TODKAR SHRADDHA SANDEEP	Stallarr.
16	UMATE TANUJA YOGANAND	Tanyi
17	WAGHMARE PRATIKSHA S	Reprote







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Ref: MCPL/letter/ 2022-23/132 A .

Date: 24/06/2023

To, Dr. Sanjay Boldhane, Microlabs, Banglore

Subject: Invitation letter for conducting lecture on "Basics of formulation Development"

Dear Sir,

Progressive Education Society has started Modern College of Pharmacy (For Ladies), Moshi, 2004. It is catering to women student by offering D.Pharm, B.pharm, M.pharm and PhD course. Our college is first Pharmacy College established for women by private organization in Maharashtra. The college is accredited by NBA and NAAC.

We would like to invite you as resource person. We request you to conduct lecture on topic **"Basics of formulation development"** We can schedule the lecture as per your convenience. We will be highly obliged if you spare valuable time for us and we look forward for your guidance.

Thanking you,





Prof. Dr. S.N. Dhole

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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PARENT SOCIETY :- PROGRESSIVE EDUCATION SOCIETY

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

(FOR LADIES)

SUMMARY REPORT ON GUEST LECTURE

Topic of Guest Lecture: "Basics of formulation development" Resource Person: Dr. Sanjay Boldhane, Microlabs, Banglore Conducted on: 24/06/2023

PES Modern College of Pharmacy (for ladies), Moshi, Pune, has arranged a guest lecture on topic "Basics of formulation development" by the resource person Dr. Sanjay Boldhane, Microlabs, Banglore Introduction of the program and resource person was given M. Pharm student. Speaker was welcomed by our respected Principal Dr. Shashikant Dhole sir with bouquet of flowers. In his lecture, he guided students regarding basics of pharmaceutical parameters of tablet formation. He told about strategies in drug discovery and pharmaceutical development. The session was interactive and students were satisfied after listening his thoughts. It was a great experience to be a part of such an informative and helpful session. Overall, the guest lecture was nice and was helpful for improving knowledge. The lecture ended with a vote of thanks given by Priyanka Shinde Mam.





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PES MODERN COLLEGE OF PHARMACY (for ladies) MOSHI, PUNE

CLASS: M PHARM SEM I

SPECIALIZATION: PHARMACEUTICS

(FOR LADIES)

STUDENT ENROLMENT

ROLL NO	NAME OF STUDENT	
1	APHALE KIRAN SANTOSH	
2	BHOSLE VAISHNAVI EKNATH	Vaishout
3	GHUGE SHIVANI JAGANNATH	
4	GORE SUVARNA PRASAD	Suvarno
5	HARAKAL POOJA DNYANOBA	
6	KAPALE NIKITA PRAVIN	
7	KHADE KOMAL SATISH	
8	KHEDKAR SANSKRUTI V	
9	LONDHE PRATIKSHA SACHIN	
10	MUNJAL POOJA SUDAMRAO	Thight
11	PRIYANKA SANJAY SONI	
12	SHELAR PRANJALI PRALHAD	
13	THORAT SNEHAL RAJENDRA	
14	TITKARE RUTUJA SURESH	
15	TODKAR SHRADDHA SANDEEP	
16	UMATE TANUJA YOGANAND	Januio.
17	WAGHMARE PRATIKSHA S	





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PES MODERN COLLEGE OF PHARMACY (for ladies) MOSHI, PUNE

CLASS: M PHARM SEM I

SPECIALIZATION: PHARM QUALITY ASSURANCE

STUDENT ENROLMENT

ROLL NO	NAME OF STUDENT	
1	AMLE RAKSHA SANJEEO	
2	BHIRUD JIDNYASA PARAG	
3	BIRADAR KRANTI ATMARAM	Krant
4	CHOUDHARY NILU AMARARAM	
5	CHOURE DIVYA SANJAY	(obo
6	GHUGE SUSHMA VISHNU	
7	ITHAPE VAISHNAVI ARUN	Quility.
8	JADHAV GAYATRI SOMANATH	
9	KAKADE TANUJA BHAUSAHEB	Kakode
10	KATKADE MANISHA RAMCHANDRA	
11	KUTE MONIKA RAJU	
12	MOHITE SAKSHI NITIN	& Jahit
13	PATIL AARTI VITTHALRAO	Hotit
14	PAWAR RUTUJA ANAJI	
15	PAWAR SHRUTI SUNIL	
16	SALUNKHE TEJAL AJAY	
17	YELWANDE PURVA BALASAHEB	Apelman

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PES MODERN COLLEGE OF PHARMACY (for ladies), MOSHI, PUNE ACADEMIC YEAR 2022-23 CLASS- M PHARM SECOND YEAR (PHARM QUALITY ASSURANCE) ROLL CALLS

Roll No	Name of student	Sign
1	BHOSALE KAVERI	
2	BORCHATE DHANASHRI	
3	DESHMUKH MAITHILI	
4	GAIKWAD MAYURI	1.2 5 5 2
5	JANKAR NILAM	Porte
6	PATURKAR SHRADDHA	
7	SHINDE ANKITA	Ashinde.
8	THORAT PRIYANKA	PBTharact
9	WAGHMARE SNEHA	





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PES MODERN COLLEGE OF PHARMACY (for ladies), MOSHI, PUNE ACADEMIC YEAR 2022-23 CLASS- M PHARM SECOOND YEAR (PHARMACEUTICS) **ROLL CALLS**

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	T. Y. B. Pharm Roll Call List 2022-2023 (Sem V) Division A-Roll No.1 to 63 Division B-Roll No.64 to 126													
Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign	Roll No	Name	Sign
	BATCH A			BATCH B			BATCH C			BATCH D			BATCH E	
1	Gayatri Aade	gand	. 27	Sanika Dhore	P	53	Urwashi Jagdale	ungdy	78	Sneha Pansare	Borthans	103	Vaibhavi Umap	Sumap
2	AdalingeBhaghyashri	tataling	28	Shital Dindewad	shilter	- 54	Supriya Kadbhane	surge	79	Pratibha Parhad	Ruth	104	Srushti Vidhate	Sand
3	Shraddha Adhav	Staduo	29	Akanksha Doiphode	fil	55	Shital Kardile	Andel	80	Nikita Parve	0	105	Prachi Wadekar	A.S.
4	Rucha Akanikar	Aut	30	Harshada Dolare	Ø	56	Pranjal Katkar	Chatter	81	Janhavi Pasme	THEAT	106	Vaishali Wagh	Neus
5	Rutuja Ankushe	Cutu		Sakshi Gade	s-s-God	e 57	Manisha Kevat	Martial	82	Sakshi Pathare	Bathak		Sakshi Waghmare	
6	Akansha Arekar	Barel	532	Nikita Gadhave	Badhai	58	Pratiksha Kimbahune	Prality	83	Bhagyashri Patil	BS Ruhi	108	Vaishnavi Waghmare	
7	Misba Attar	MAN	P.33	Vaibhavi Gandhi	Pur.	59	Pratiksha (Kothawale	Brouk	. 84	Kirti Patil	Ompath	109	Tanaya Walse	
8	Varsha Bangar		34	Shweta Gatkal	gonor	60	Rutika Kshirsagar	Rutika	85	Vaishnavi Patil	land	110	Sejal Walunj	Scattur
9	Pratiksha Bhandarkar	Bottony	35	Anjali Gautam	Aniou	- 61	Vaishnavi Labade	Sabado	86	Akshata Pawar	ethas	Ш	Bhakare Mayuri	
10	Nandini Bhavsar	Marsh	> 36	Arati Gavali	19ruli	62	Pranjal Landge	Planjel	- 87	Priyanka Pharate	Phonate	112	Bhangale Vrushali	F.
11	Varsha Bhilare		37	Pranali Gavate	Hand	63	Pranjal Lokhande	Pull	- 88	Divya Rane	PAtrow	113	Bijjasampada	BB
12	Akshata Bhor	The	. 38	Harshada Gaware (Horner	_64	Kalyani Madake	- Meete	- 89	Prachi Ranjane	qu.	114	Borate Nikita	VBIO
13	Sayali Bhor	Layali	39	Priti Ghenand	for	65	Utkarsha Mahajan	U.K. mdu	90	Ankita Rathod	Act	115	Choudhary Payal	Ø
14	Aishwarya Bhore	A	40	Prachiti Ghodake	Phoda	<u>r</u> 66	Gayatri Mahamuni	Augerte	-91	Divya Rathod	Rettly	116	Date varsha	Dal
5	Mrunmayi Bhosale	m-sth	41	Rutuja Ghundare	20	67	A. L. 1. 1. M. 1.1.	Browite	92	Prajakta Salunke	Prajeto	117	Gavle shruti	2
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				Gulhane										15
17	Bushra Bagwan		43	Vaishnavi Gupta	100-	69	Shravani Mule	300	94	Siddhi Sawal	Stow	119	Jaiswal Janhavi	Jok
18	Priya Chauhan	10	44	Anuja Gurav	20	70	Anushka Nagare	due	95	Aishwarya	ff.	120	KabneAkankasha	Akal
19	Aishwarya Choudhari	autor	45	Sakshi Gurav	144	71	Pratiksha Nale	Nall	96	Aditi Shevkari		121	Manekar Sharayu	R
20	Ashwini Dafal	OTUS-	46	Anjali Hande	Hul	72	Prerana Nandkhile	Pisnes	97	Harshita Singh	simply	122	Mavkar Rutuja	Rufig
21	Anushka Deokar	Ang	47	Kadambari Hankare	Celt	73	Renuka Padavale	0A	- 98	Rutuja Sonawane	KAF.	123	Pawar Nikita	RUAT
22	Sakshi Devsatwar	forkent	48	Sakshi Hiwale	Q.	74	Suman Padwal	Dr.S.		Siddhi Sonawane	signar	124	Salunkhe Sakshi	Y.
23	Aditi Dhanawade	Adul	, 49	Sakshi Holkunde	Alous	75	Amita Pakhare	Phakin	100	Vaishnavi Sular		125	Salve devyani	tot
24	Nikita Dhanawate	tight-	50	Neha Jadhav	Asig.	76	Pradnya Palaskar	Baliz	_ 101	Pranjal Taware	Franky	126	Sangade varsha	Bared
25	Dhanshri Dhawale	Donuell	51	Pooja Jadhav	Fadba	-77	Kalyani Pandit	(BP	102	Punam Thigale	Rugale	127	Saste Neha	Silver
26	Ritika Dhonge	aiting	52	Pallavi Jadhavar	Film	,			104	Vaibhavi Umap	Surg		1	Y





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Guest lecture Dr.Sanjay Boldhane on 24/06/2023