



President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

CRITERIA: 2

SUMMARY

TEACHING- LEARNING AND EVALUATION

Key Indicator: 2.3	Teaching- Learning Process
Metric No : 2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing.



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TEACHING- LEARNING AND EVALUATION

Preamble:

The institute's approach to teaching and learning has changed from a typical classroom setting to one that is student-centric. To improve students' learning experiences and promote self-directed learning, instructional strategies like interactive learning, participatory or collaborative learning, experiential learning, problem-based learning, and blended learning are used. The activities outside of the curriculum are created to fill in any gaps in the curriculum based on feedback from the IQAC and industry experts.

Experiential Learning:

Following activities are conducted by the institute which gives students opportunity to learn through experience and discover the opportunities in the field.

Hands on learning (content beyond syllabus) - Hands on learning with content beyond syllabus were organised by institute to promote active engagement and practical application of knowledge and skills. Through hands-on activities, students are encouraged to actively participate in the learning process, leading to a deeper understanding and retention of the subject matter.

Project based learning (Final year project, practice school) - As per the part of B. Pharm Curriculum project based learning activity conducted by institute for Final year B. Pharm Students in the form of practice school to to foster active learning, develop critical thinking and problem-solving skills, promote collaboration and teamwork, and enhance the application of knowledge in real-world contexts.

Industrial training - T.Y. B. Pharm students have the opportunity to participate in industrial training as part of their programme. As part of the B. Pharm. programme, students participating in industrial training gain knowledge of how various departments in the industry function as well as exposure to challenges faced by professionals in the field when manufacturing and analysing medicines and how to resolve these challenges. As part of the M. Pharm. curriculum, some M. Pharm. students are also sent to various pharmaceutical businesses for industrial training while working on their dissertations in the final semester.



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Field visit (Industrial Tour) - With the aims to provide students with practical exposure to the real-world pharmaceutical industry, enabling them to bridge the gap between theoretical knowledge gained in the classroom and its practical application to familiarize students with various aspects of pharmaceutical manufacturing processes, quality control measures, and regulatory compliance, enhancing their understanding of industry standards and practices the institute were organised Industrial Tour for the students.

Add on courses – Add on courses were conducted by institute to supplement and enhance the existing knowledge and skills of students, provide specialized training in specific areas, and increase their employability prospects. These courses aim to offer students additional learning opportunities beyond their core curriculum.



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Participative learning:

Participative learning in the institute is a team process where small group of students with different learning abilities collaborate and interact.

Avishkar - To foster young researchers that are intended to contribute societal needs while undertaking their under-graduation, post-graduation and research studies. To encourage original and novel thinking students were participated in Avishkar which organised by KBCNMU for university level, state level which organised by hosted university of Maharashtra and Anvention level.

Webinar / seminar – Institute were organised webinars, seminars and guest lecture of industrial resource persons, renowned academicians and specific subject expert for studens to find mentors who inspire them and with the way among many to inspire young learners about the current trends and future opportunities and what it takes to become a successful career professional. These lectures help students gain real world exposure through the experts from industries and Pharma field.

Awareness program - Awareness programmes were organised by institutions. provide them with valuable knowledge, cultivate critical thinking skills, promote personal growth, and inspire proactive engagement in societal issues. Such programs aim to raise awareness about the swachata – Cleanliness, blood group detection, blood donation, yuvatisabha, tobacco awareness program and celebration of variouls constitutional days like Constitution day, AIDS day, Voter day, Vachan Prerna day etc.

Journal Club – Activity under journal club for personality development and updating of knowledge: Under protagoniost club various activities related to personality development, interpersonal skills and communication skills are conducted under Joumal club for M. Pharm students.

Seminar presentation / research progress presentation / Journal Club - Activity seminar presentation / research progress presentation for personality development and updating of knowledge: Under protagoniost of seminars and presentation various activities related to



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personality development, interpersonal skills and communication skills are conducted under these scheme for B. Pharm and M. Pharm students.



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HANDS ON LEARNING

The series of hands-on learning activities provided students with a comprehensive and immersive learning experience across a spectrum of scientific concepts. The calibration of UV-Visible spectrophotometers offered a practical understanding of the crucial process of ensuring accurate measurements in analytical chemistry. In addition, preparation of anti-inflammatory iodine ointment, and techniques such as spheronization and pelletization in tablet manufacturing. Adjusting lighting for microscopes and conducting experiments on pelletization were also covered. Additionally, students were provided with a practical demonstration of using freely available online software to draw chemical structures. These activities collectively offered insights into analytical instrument calibration, pharmaceutical formulation, manufacturing processes, microscopy techniques, and digital tools for chemical representation, equipping participants with valuable skills applicable across scientific disciplines. Overall, these activities transcended theoretical learning, enabling students to bridge the gap between concepts and applications. The multidisciplinary nature of the activities equipped them with a versatile skill set, nurturing a holistic approach to scientific exploration and innovation.




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**Criteria 2 Teaching Learning and Evaluation: 1.1 Hands-on learning
Index**

Sr. No.	Subject Name, Year/Sem	Gap	Action taken	Date	Resource Person with designation/Self	Class and No. of students present	Relevance to POs	Academic year
1.	BP705P Instrumental Methods of Analysis	Calibration of equipment	To perform calibration of UV Visible spectrophotometer	09/11/2022	Mr. Z. G. Khan	66	1,4,11	2022-23
2.	BP108P Pharmaceutics -I	Prepare non-staining iodine ointment	Non-staining iodine ointment with anti-inflammatory activity	27-29/03/2023	Mr. S. N. Jain	58	1,11	2022-23
3.	BP604T Biopharmaceutics and Pharmacokinetics	Significance of Spheronization and palletization in Tablet/Capsule manufacturing	To perform Spheronization and palletization in Tablet/Capsule manufacturing	3/8/2022	Mr. R. S. Tade	48	1,11	2022-23
4.	BP508P Pharmacognosy and Phytochemistry-II	Student not able to adjust the light in a microscope	Adjustment of light in a microscope	17/7/2022	Mr. C. J. Bhavsar	63	1,2,11	2021-22
5.	(BP506T) Industrial Pharmacy –I Third Year B.Pharm./ Sem V	Pelletization	Experiment on pelletization	12/08/2021	Dr. V. K. Chatap	28	1,11	2021-22
6.	(BP301 T) Pharmaceutical Organic Chemistry-II	Use of freely available online	Hands-on Demonstration on use of freely available	04/11/2020	Mr. Z. G. Khan	37	1,11	2020-21




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**Criteria 2 Teaching Learning and Evaluation: 1.1 Hands-on learning
Index**

	S Y B Pharm/ Sem III	software to draw chemical structures	online softwares to draw chemical structures					
7.	(BP301 T) Pharmaceutical Organic Chemistry-II S Y B Pharm/ Sem III	Use of freely available online softwares to draw chemical structures	Demonstration on use of freely available online softwares to draw chemical structures	07/11/2020	Mr. Z. G. Khan	24	1,11	2020-21
8.	(BP403T) Physical Pharmaceutics II Sem IV	Use of Computational Software	Demonstration of origin software	07/07/2021	Mr. N.R. Shirsath	55	1,11	2020-21
9.	BP801T Biostatistics and Research Methodology	Experimental Design and DOE in Pharmaceutical Research	Hands-on session was conducted	25/06/2021	Dr. D. D. Patil	30	1,11,	2020-21
10.	(BP502T) Industrial Pharmacy Third Year/ Sem IV	Tooling of tablet machine (Theory)	To study the tooling of tablet machine	11/7/2019 12/7/2019 13/7/2019	Dr. V. K. Chatap	57	1,2	2019-20



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HANDS ON LEARNING – 2022 - 23



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Practical Plan (Batch wise)

Class: Final Year Subject: BP 705P Instrumental methods of Analysis
 Number of practical as per syllabus: 15 Actual Number of practical conducted: 14 Batch: A

Sr. No.	Name of Experiment	Planned Date	Actual Date
1	To perform determination of absorption maxima & effects of solvent on absorption maxima.	30/6/22	30/6/22
2	To perform Assay of paracetamol tablet by UV spectrophotometry.	7/7/22	7/7/22
3	To perform simultaneous estimation of Itra & para by UV spectroscopy.	14/7/22	14/7/22
4	To perform determination of sodium by flame photometry.	4/8/22	4/8/22
5	To perform determination of potassium by flame photometry.	11/8/22	11/8/22
6	Separation of amino acids by paper chromatography.	18/8/22	18/8/22
7	Separation of amino acids by Thin layer chromatography.	25/8/22	25/8/22
8	Separation of sugars by paper chromatography.	1/9/22	1/9/22
9	Separation of sugars by Thin Layer chromatography.	8/9/22	8/9/22
10	Separation of plant pigments by column chromatography.	15/9/22	15/9/22
11	To perform demonstration of HPLC.	29/9/22	29/9/22
12	To perform demonstration of Gas chromatography.	6/10/22	6/10/22
13	To perform determination of Chlorides by Nephelometry ^{(5x)phases}	13/10/22	
14	To perform estimation of quinine sulfate by fluorimetry.	20/10/22	13/10/22
15	To perform calibration of UV visible ⁽¹⁴⁾ FTIR spectrophotometer ⁽¹⁵⁾ FTIR.	3/11/22	20/10/22 3/11/22

27/6/22
 Sign. of Teacher



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27/6/22
 Sign. of HOD / Vice Principal

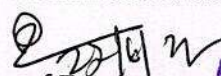


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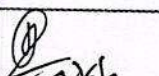
Practical Plan (Batch wise)

Class: <u>Final Year</u>		Subject: <u>BP705 P IMA</u>				
Batch: <u>B</u>		Batch: <u>C</u>			Batch:	
Sr. No.	Planned Date	Actual Date	Planned Date	Actual Date	Planned Date	Actual Date
1	29/6/22	29/6/22	2/7/22	2/7/22		
2	6/7/22	6/7/22	9/7/22	9/7/22		
3	13/7/22	13/7/22	6/8/22	6/8/22		
4	3/8/22	3/8/22	13/8/22	13/8/22		
5	10/8/22	10/8/22	20/8/22	20/8/22		
6	17/8/22	17/8/22	27/8/22	27/8/22		
7	24/8/22	24/8/22	3/9/22	3/9/22		
8	7/9/22	7/9/22	10/9/22	10/9/22		
9	14/9/22	14/9/22	17/9/22	17/9/22		
10	28/9/22	28/9/22	24/9/22	24/9/22		
11	12/10/22	12/10/22	1/10/22	1/10/22		
12	19/10/22	19/10/22	8/10/22	8/10/22		
13	2/11/22		15/10/22			
14	9/11/22	2/11/22	29/10/22	15/10/22		
15	9/11/22	9/11/22	5/11/22	29/10/22		
				5/11/22		


Sign. of Teacher




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Attendance Sheet (Theory / Practical/Tutorial)

Class: Final Year

(A) Batch

Subject: IMA

Roll No.	Name of Student	Date	L.No.																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
A-1	AHIRE RAHUL SANJAY	30/6/22	A	1	2	3	4	5	6	7	A	8	9	10	11	12	13				
A-2	ANDHALE GOVIND KRUSHNA	7/7/22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-3	BAGUL DHIRAJKUMAR RAVINDR	14/7/22	1	2	3	4	5	6	7	8	A	9	10	11	12	13	14				
A-4	BARI KSHITIJ SANJAYKUMAR	4/8	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
A-5	BARI VIDYA RAJENDRA	11/8	1	2	3	A	4	5	6	7	8	9	10	11	12	13	14				
A-6	BAVA MAYURI MAHENDRA	18/8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-7	BAVISKAR AJIT VASANT	25/8	1	2	3	4	5	6	7	8	9	10	A	11	12	13	14				
A-8	BHADANE NIKITA HEMANT	1/9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-9	BHAMARE ASHWINI NARENDRA	8/9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-10	BHANDORE SOHAM SANTOSH	15/9	1	2	3	A	4	5	6	7	8	9	10	11	12	13	14				
A-11	BHARTI SARANG DIPAK	29/9	1	2	3	4	5	6	7	8	9	10	11	A	12	13	14				
A-12	BHOI KOMAL ASHOK	6/10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-13	BORADE HITESH SANJAY	13/10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-14	BORASE PUJA SHIVAJI	20/10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-15	BORSE RUTUJA SHAMKANT	3/11/22	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-16	CHAUDHARI DARSHAN VISHNU		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-17	CHAUDHARI DEVESH RAVINDRA		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-18	CHAUDHARI HINA AMBALAL		A	1	2	3	4	5	6	7	8	9	10	11	12	13	14				
A-19	CHAUDHARI JAYESH NARAYAN		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-20	CHAUDHARI KOMAL SANJAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
A-21	CHAUDHARI MAYURI KISHOR		1	2	3	4	5	6	7	8	A	9	10	11	12	13	14				
A-22	CHAUDHARI RENUKA SOPAN		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				



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Attendance Sheet (Theory / Practical/Tutorial)

Class: Final year (B) Batch

Subject: PhMA

Roll No.	Name of Student	Date	L.No.																				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A-23	CHAUDHARI SAKSHI RAVINDRA	29/6/21	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-24	CHAUDHARI SHITAL GURUDAS	6/7/21	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
A-25	DAUND PRASAD KALYAN	13/7/21	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-26	DESHMUKH RUCHIKA VILAS	3/8/21	1	2	3	4	5	A	6	7	8	9	10	11	12	13	14						
A-27	DHAMANE TEJAS SUNIL	10/8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-28	DHANDE PRIYANKA PRAMOD	17/8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-29	DHUMAL KRUTIKA RAJESH	26/8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-30	FULARI SHREYAS LAXMAN	7/9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-31	GANGURDE PRINSI SURESH	15/9	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
A-32	GAVALE HARSHADA RAJENDRA	28/9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-33	GAVIT KALPANA RAJU	12/10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-34	GHONGADE SOMNATH BHAUSA	19/10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-35	GIRASE SUSHANTSING SUREND	2/11	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
A-36	GUJAR KALYANI MACCHINDRA	9/11/21	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-37	HIRE DINESH DNYANESHWAR	5/11/21	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-38	INGALE KAJAL SANJAY		1	2	3	4	5	A	6	7	8	9	10	11	12	13	14						
A-39	JADHAV SHUBHAM BHAUSAHE		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-40	JAIN TEJAS PRASHANTKUMAR		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-41	KHAIRNAR SAGAR AMRUT		A	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
A-42	KOLI KANCHAN DEVIDAS		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-43	KULKARNI KUNAL VIKASRAO		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
A-44	KURESHI MUSKAN KHALIL		1	2	3	4	5	6	7	8	A	9	10	11	12	13	14						



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Attendance Sheet (Theory / Practical/Tutorial)

Class: Final Year

(C) Batch

Subject: DMA

DMA

Roll No.	Name of Student	Date	L.No.																				
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
A-45	MAHAJAN PRANJALEE GOPAL	2/7/22	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
A-46	MAHAJAN AMOL KAILAS	9/7/22		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
A-47	MAHAJAN PRASHANT ASHOK	6/8/22	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
A-48	MAHAJAN RUSHIKESH DINESH	13/8		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
A-49	MALI GANESH NAVAL	20/8		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
A-50	MARATHE BHAGYASHREE GOVIN	27/8		1	2	3	4	5	6	7	8	9	10	A	11	12	13	14					
A-51	MORE NITIN KISHOR	3/9		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
A-52	NERE VRUSHALI CHHOTU	10/9	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
A-53	NIKAM SWAPNALI YUVRAJ	17/9		1	2	3	4	5	6	7	8	9	A	10	11	12	13	14					
A-54	NIKUMBHE SUKANYA SUNIL	24/9		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
A-55	PAKHALE PRANAV VILAS	1/10		1	2	3	4	5	6	7	8	A	9	10	11	12	13	14					
3-1	PARDESHI NIKITA VINOD	8/10		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-2	PATEL MAYURI VASANT	15/10	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-3	PATEL VAIBHAVI RAKESH	22/10		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-4	PATIL ADITYA VASANTRAO	29/10		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-5	PATIL AISHWARYA PRAMOD	5/11		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-6	PATIL AKSHADA KANTILAL	12/11		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-7	PATIL ASHAY DEVENDRA	19/11		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-8	PATIL CHETAN BHALCHANDRA	26/11		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3-9	PATIL CHETAN DNYANESHWAI	3/12		1	2	3	4	A	5	6	7	8	9	10	11	12	13	14					
-10	PATIL DIPAK DHANRAJ	10/12		1	2	3	4	5	6	7	8	9	10	A	11	12	13	14					
-11	PATIL DIPALI SOPAN	17/12		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					



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Date:	9/11/22
Expt.No.	14

o Aim → To perform calibration of UV-visible

o Reference →
 Indian pharmacopoeia, 2007, volume - I
 Government of India, Ministry of Health & Family
 welfare, published by Indian pharmacopoeia
 commission, Gaziabad, page no - 110 - 112.

o Requirements →

→ Apparatus — volumetric flask, beaker, pipette, funnel.

→ chemicals — potassium dichromate, 0.005 M sulphuric
 acid, potassium chloride, toluene, hexane,

→ Methanol. etc.

o principle →

The pharmacopoeal monograph usually on standard
 (1% cm) values in order to calculate concentration
 of drugs in extracts from formulations in
 order to use standard values of instrument
 used to make measurement must be properly
 calibrated with respect to its wavelength
 & absorption scale. In addition checks for
 light & spectral resolution are run. These
 checks are now often built into software
 of U.V. instrument, so that instrument
 meets good manufacturing practice requirement



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Date :

Expt.No.

* Procedure →

- 1) Control of absorbance, using suitable filter (or) solution of potassium dichromate UV at the wavelength indicated, which gives for each wavelength the exact values & permitted limit of the specific absorbance is ± 0.01 use solution of potassium dichromate. UV which has been previously dried to constant weight at 130° , For controls absorbance at 235 nm, 257 nm, 313 nm, 350 nm, dissolve 570-630 mg potassium dichromate UV in 0.005 M sulphuric acid & dilute to 100.0 ml with same acid for control of absorbance at 430 nm, dissolve 570-630 mg potassium dichromate UV in 0.005 M sulphuric acid & dilute to 100.0 ml with same acid calculate value of $A (1\% \cdot 1\text{cm})$ for each wavelength.

$$A (1\% \cdot 1\text{cm}) = \text{Absorbance} \times 10,000 / \text{weight of potassium dichromate mg}$$

2) Limit of stray light →

Stray light may be at given (wavelength) with suitable filter or solution for example the absorbance of 1.2% w/v solution of potassium dichromate in 1cm cell should be \geq greater than 2.0 at about 200 nm when compared with



Date :

Expt.No.

with water as reference liquid.

3) Resolution power →

When stated in monograph, record spectrum of 0.02 percent UV solution of toluene in ketone UV the ratio of absorbance at maximum at about 269 nm to that at maximum at about 266 nm is not less than, is unless otherwise in monograph.

4) Derivative Spectroscopy →

Resolution — When stated in monograph, record the second order derivative spectrum in range 255 nm to 275 nm of 0.020% w/v solution of toluene & in methanol using reference cell. A small negative extremum (or trough), located between two large negative extrema (or troughs) at about 201 nm & 208 nm should be clearly visible.



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Page No.

Date :

Expt.No.

* : RESULT ⇒

parameter	Observed value	std value.
1) limit of stray light	0.861	should be <u>></u> 2.0
2) resolution power	1.25	NLT 1.5
3) control of Absorbance	235 nm - 143.5 257 nm - 159.1 313 nm - 52.1 350 nm - 116.1 430 nm - 145.7	129.9 - 126.2 142.4 - 145.7 47.0 - 50.3 104.9 - 109.0 15.7 - 16.1
4) control of WIL	① at 240 nm ethanol - 0.0962 methanol - 0.1626 cyclohexane - 0.0340 ② at 254 nm ethanol - 0.1019 methanol - 0.2123 cyclohexane - 0.0789	pass pass pass pass fail pass.



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Page No. 52

* calculation →

1) control of Absorbance →

Weight of butter paper — 0.15g

Weight of butter paper + sample = 0.24g

Weight of transferred to volumetric

Flask = 0.06g

= 60mg

wavelength	Absorbance
235	0.861
257	0.955
313	0.319
350	0.697
430	0.875

$$A\% (1\text{cm}) = \text{Absorbance} \times 100$$

weight of potassium dichromate in mg

$$\therefore \text{For } 235 \text{ } A\% (1\text{cm}) = \frac{0.861 \times 1000}{60} = 14.34$$

$$1) \text{ } 257 \text{ } A\% (1\text{cm}) = \frac{0.955 \times 1000}{60} = 15.91$$

$$2) \text{ } 313 \text{ } A\% (1\text{cm}) = \frac{0.318 \times 1000}{60} = 5.301$$




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$$\rightarrow 350 \text{ A}^{\circ} \text{ 1cm} = \frac{0.697 \times 1000}{60} = 11.61$$

$$4) 430 \text{ A}^{\circ} \text{ 1cm} = \frac{0.375 \times 1000}{60} = 14.5775$$

Wavelength	Specific Absorbance	Maximum Tolerance.
235	14.34	122.9 - 126.2
257	15.91	142.8 - 145.7
313	5.30	47.0 - 50.3
350	11.61	105.6 - 108.7
430	14.57	10.7 - 16.1

2) Limit of Spray light \rightarrow

1.2 % w/v hcl \rightarrow in 100 gm H₂O
Absorbance at 200 nm \rightarrow 0.861 (72.0)

3) Resolution power \rightarrow

0.2 % w/v Toluene in hexane

Absorbance	Wavelength
1.180	269
0.9839	267



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$$\frac{A_{260}}{A_{267}} = \frac{1.180}{0.939} = \underline{1.25} \quad (\text{limit} + \geq 1.5)$$

4) control of w/L →

Absorbance reference cell filled with methanol measured with reference to air (240nm)

<u>At 240 nm</u> Solvent	Absorbance	Result -
Ethanol	0.0962	pass
Methanol	0.1626	pass
cyclohexane	0.0340	pass.
<u>At 284 nm</u>		
Ethanol	0.1019	Pass
Methanol	0.2123	Fail
Cyclohexane.	0.0789	pass.



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Heading	Maximum Mark	Marks Obtained.
Experiment	03	03
Attendance	02	02
Total	05	5




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President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

Date: 29/07/2022

Notice

Subject/Agenda: Regarding conduction of lecture on 'Content Beyond Syllabus (Gap)'

Class: T.Y. B. Pharm (Division B)

All students of Third Year B. Pharm (Division B) hereby informed that your lecture is planned under the "Content beyond syllabus" scheme with below mentioned topic (gap). The lecture will be conducted with same regular schedule. Date: 02 & 03-Sept-2022.

Topic/Title: Significance of Spheronization and palletization in Tablet/Capsule manufacturing

Subject Teacher
Mr. Rahul S. Tade



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Dr. Sanjaykumar B. Bari



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Date :	
Expt.No. -	

03/09/2022

Content Beyond Syllabus

Name

Signature

- | | | |
|-----|---------------------------|--|
| 1) | Patil Smit Rajendra | |
| 2) | Sable Rohan Mahadev | |
| 3) | Patil mahesh kailas | |
| 4) | Patil Rohit Sanjay | |
| 5) | Sankar Devendra Sanjay | |
| 6) | Patil Ninit Pranlin | |
| 7) | Patil Harshal Sunil | |
| 8) | Patil Yash Prakash | |
| 9) | Patil Shivadas Sambhaji | |
| 10) | Patil Priyanka Uday | |
| 11) | Patil Pranali Manoj | |
| 12) | Patil Priyanka Vitthal | |
| 13) | Patil Jagruti Dnyaneshwar | |
| 14) | Patil Yashantika Ravindra | |
| 15) | Patil Mrunal Anil | |
| 16) | Patil Komal Manmohan | |
| 17) | Patil Megha Mahendra | |
| 18) | Patil Nikita madhav | |
| 19) | Patil sanika sunil | |
| 20) | Nela. Vinod Mohan | |
| 21) | Singh. Anita. Ashok | |
| 22) | Prakash. Patil | |
| 23) | Ankita. Bhaxat. Lalgahe | |
| 24) | sanket Nikumbh | |
| 25) | Konchan Atul Nandulka | |
| 26) | Umesh Rajesh Wagh | |
| 27) | Dnyesh Patil | |



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Record of Content Beyond Syllabus

Sr. No.	Date	Name of the Topic	Contents	Mapping with PEO
1	27, 28 and 29/03/23	Prepare non-staining iodine ointment with meth. salicylate	Non-staining iodine oint- ment with antimicrobial activity	I, II
2	24/01/23	Introduction to Latin terms	Latin terms used in the measurements.	I, II

Record of Training / Visit

Date	Details of Training / Visit



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Attendance Sheet (Theory / Practical/Tutorial)

Class: F. Y. B. Pharm. Sem I

Subject: PPH-1

Roll No.	Name of Student	Date	L.No.																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
B 1	Mali Sanika		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
2	Marathe Chetan		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	17	18
3	Marathe Vaishnavi		1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
4	Mitkar Vaibhav		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18
5	Paratane Navesh		1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18
6	Pardeshi Nirajsinh		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	17	18
7	Patil Abhishek		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
8	Patil Atharva		1	2	3	4	5	6	7	8	9	10	11	12	13	14	14	15	16	17	18	19
9	Patil Bhagyeshri		1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18
10	Patil Devendra		1	2	3	4	5	6	7	8	9	9	10	11	12	13	14	15	16	17	18	19
11	Patil Dhankesh		1	2	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
12	Patil Harshali		1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19
13	Patil Komal		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19
14	Patil Lokesh		1	1	2	3	4	5	6	6	7	8	8	9	10	11	11	12	13	14	15	16
15	Patil Pooja		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18	19
16	Patil Rajesh		1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	17	18
17	Patil Rutuja		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	16	17	18
18	Patil Sakshi		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	18
19	Patil Javesh		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	16	17	17	18
20	Patil Jaurav		1	1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19
21	Patil Jujata		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
22	Patil Tejas		1	2	3	4	5	6	6	7	8	8	9	10	11	12	13	14	15	16	17	18
23	Patil Tushar		1	2	3	4	5	5	6	7	8	9	10	10	11	12	13	14	15	16	17	18
24	Patil Vaibhav		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18
25	Patil Vasudha		1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	18	19
26	Patil Yogeshwaris		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	15	16	17	18
27	Pawar Yash		1	2	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	15	16	17
28	Pimpale Shital		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	18
29	Rajguru Gayatri		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	18	19
30	Rajput Mayuri		1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	16	17	17



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Attendance Sheet (Theory / Practical/Tutorial)

Class: F.Y.B. Pharm. Sem - 1

Subject: ⁵OPH-1

Roll No.	Name of Student	Date	L.No.																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
31	Rajput Junit		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	16	17	18	19
32	Salunke Samruddhi		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	16	17	17	18
33	Sarode Dimpal		1	2	3	4	4	5	6	7	8	9	10	11	11	12	13	14	15	16	17	18
34	Sen Artha		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	15	16	16	17
35	Shah Kinjal		1	2	3	4	5	6	7	8	9	10	11	11	13	14	15	16	17	18	19	20
36	Shikalkar Saiyyad		1	2	3	3	4	5	6	7	8	7	10	11	11	12	13	14	15	16	17	18
37	Shimpi Vrushali		1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
38	Shinde Aditi		1	2	3	3	4	5	6	7	8	9	10	11	11	12	13	14	15	16	17	19
39	Shingane Mahesh		1	2	2	3	4	5	6	7	8	9	10	11	11	12	13	14	15	16	17	18
40	Sonar Sathak		1	2	3	4	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18
41	Sonawane Kaveri		1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	14	15	16	16	17
42	Sonawane Prashant		1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	18	19
43	Sonawane Swapnil		1	1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	16	17
44	Sonawane Vaishnavi		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15	15	16	17	18
45	Soni Tejas		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	14	15	16	17	18
46	Suralkar Shilpa		1	2	3	3	4	5	6	7	8	9	10	10	11	12	13	14	15	16	17	18
47	Wagh Sruti		1	2	3	4	5	6	7	8	8	9	10	11	12	13	14	15	16	17	19	19
48	Yeole Sojwal		1	2	3	4	5	6	7	7	8	9	10	11	12	13	14	15	16	17	17	19
49	Yeole Anuja		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	19

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Attendance Sheet (Theory / Practical/Tutorial)

Class: F.Y.B. Pharm. Sem 1 Batch C

Subject: Pharmaceutics

Roll No.	Name of Student Batch "C"	Date	Date														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
L.No.			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-41	Kingar Karbish		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14
42	Koli Vaibhav		1	2	3	4	5	6	7	7	8	9	10	11	11	12	13
43	Kumbhar Sarika		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
44	Ladhe Priyanshu		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
45	Lakule Gaurav		1	2	3	4	4	5	6	7	8	9	10	11	12	13	14
46	Mali Kafil		1	2	3	4	5	6	7	7	8	9	10	11	11	12	13
47	Mali Om		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
48	Mali Prem		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
49	Mali Raj		1	1	2	3	4	5	6	7	8	9	10	11	12	13	13
B-1	Mali Sarika		1	2	3	4	5	6	7	7	8	9	10	11	11	12	13
2	Marathe chetan		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3	Marathe Vaibhav		1	2	3	4	5	6	7	8	8	9	10	11	12	13	14
4	Mitkar Vaibhav		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
5	Paratane Navesh		1	2	3	4	5	6	7	8	9	9	10	11	12	13	14
6	Pardeshi Nirajsinh		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
7	Patil Abhishek		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
8	Patil Atharva		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
9	Patil Bhagyashri		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
10	Patil Jeevendra		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
11	Patil Shankesh		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
12	Patil Harshali		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

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Attendance Sheet (Theory / Practical/Tutorial)

Class: F. Y. B. Pharm. Sem I

Subject: Pharmaceutics-I

Roll No.	Name of Student Batch "D"	Date	L.No.																				
		04/01/23	09/01	12/01	23/01	30/01	06/02	09/02	13/02	27/02	06/03	13/03	20/03	20/03	23/03	27/03	16	17	18	19	20		
B-13	Patil Komal		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
14	Patil Lokesh		1	2	2	3	4	5	6	7	8	9	10	11	12	13	14						
15	Patil Pooja		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
16	Patil Rajesh		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14						
17	Patil Rutuja		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
18	Patil Janki		1	2	3	4	5	6	6	7	8	9	10	11	12	13	14						
19	Patil Sarvesh		1	2	3	4	5	6	7	7	8	9	10	11	12	14	13						
20	Patil Saurav		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14						
21	Patil Sujata		1	2	3	4	5	6	7	8	8	9	10	11	12	13	14						
22	Patil Tejas		1	2	3	4	4	5	6	7	8	9	10	11	12	15	14						
23	Patil Tuskar		1	2	3	4	5	6	6	7	8	9	10	11	12	15	14						
24	Patil Saubhar		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
25	Patil Vasudha		1	2	3	3	4	5	6	7	8	9	10	11	12	13	14						
26	Patil Yogeshwaris		1	2	3	4	4	5	6	7	8	9	10	12	13	14	15						
27	Patil Yash		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
28	Pimpale Shetal		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
29	Rajgury Gayatri		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
30	Rajput Mayuri		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						
31	Rajput Sumit		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15						

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Attendance Sheet (Theory / Practical/Tutorial)

Class: F.Y. B. Pharm. Sem 1

Subject: Pharmaceutics - I

Sl. No.	Name of Student Batch "E"	Date	L.No.	27/12/22	03/01/23	10/01	14/01	24/01	31/01	07/02	11/02	14/02	21/02	28/02	14/03	18/03	21/03	28/03	16	17	18	19	
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
32	Jalunke Samruddhi			1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15				
33	Sarode Dimpal			1	2	3	4	5	6	7	8	9	9	10	11	12	13	14					
4	Sen Astha			1	2	2	3	4	5	6	7	8	9	10	11	12	13	14					
5	Shah Kinjal			1	2	3	4	5	6	7	8	9	10	11	11	12	13						
6	Shikalkar Saiyyad			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
7	Shimpi Vrushali			1	2	2	3	4	5	6	7	8	9	10	11	12	13	14					
8	Shinde Aditi			1	2	3	4	5	6	7	8	9	9	10	11	12	13	14					
9	Shingane Mahesh			1	2	3	4	5	6	7	8	9	9	10	11	11	12						
10	Sonar Sarthak			1	2	3	3	4	5	6	7	8	9	10	11	12	13	14	15				
1	Sonawane Karan			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
2	Sonawane Prashant			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
3	Sonawane Swapnil			1	2	3	4	5	6	6	7	8	9	10	11	12	13	14	15				
4	Sonawane Vaishnav			1	2	3	4	5	5	6	7	8	9	10	11	12	13	14	15				
5	Soni Tejas			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
6	Suralkar Shilpa			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
7	Wagh Srushti			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
8	Yeste Sojwal			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					
9	Yeste Anuja			1	2	3	4	5	5	6	7	8	9	10	11	12	13	14					

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Principal :
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M.Pharm. Ph.D., D.I.M.F.J.C.

CRITERIA: 2

SUMMARY

TEACHING- LEARNING AND EVALUATION

Key Indicator: 2.3	Teaching- Learning Process
Metric No : 2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing.

HANDS ON LEARNING – 2021 - 22



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Notice

15/07/2022

All the students of Third year B. Pharm (A and B Division) are hereby informed to present for the lecture entitled 'Adjustment of light in microscope' to fill curriculum gap on 17/07/2022 (Wednesday) at 3.30 to 4.30 pm am. Attendance is compulsory for this lecture.

Mr. C.J. Bhavsar

Subject Incharge

Dr. P. O. Patil

Academic Incharge

Dr. S. B. Bari

Principal

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M.Pharm. Ph.D., D.I.M.F.J.C.

Attendance Sheet for the lecture on content beyond syllabus topic 'Adjustment of light in microscope' on 17/07/2022

Roll No.	Name of the Student	Sign
B-03	Kanchan Atul Nandwalkar	<i>Kanchalkar</i>
A-51	Nandini Dattatray Magar	<i>Nandini</i>
A-49	Vaishnavi Govind Kshirsagar	<i>V.K.K</i>
A-59	Bhupesh Santosh Mali	<i>Bhupesh</i>
B-06	Aditya Sunil Patil	<i>Aditya</i>
B-07	Akash Dattatray Patil	<i>Akash</i>
B-08	Darshan Shailendra Patil	<i>Darshan</i>
A-48	Gaurav RAJEEV Kshirsagar	<i>Gaurav</i>
B-02	Dnyaneshwar Baban Mule	<i>Dnyaneshwar</i>
A-52	Satyam Rajendra Mahajan	<i>Satyam Mahajan</i>
A-56	Nilesh Mohan More	<i>Nilesh</i>
A-47	Pratik Umesh Kolapkar	<i>Pratik</i>
B-09	Patil Divya Ananda	<i>Divya</i>
B-05	Patel Bhakti Keshav	<i>Bhakti</i>
B-04	Hikombh Sanket Anil	<i>Hikombh</i>
A-54	Ritika Ishwar Mali	<i>Ritika</i>
A-50	Raj Santosh Kumbhar	<i>Raj</i>
B-10	Patil Durgesh Prakash	<i>Durgesh</i>
A-42	Jadhav Jyotna Nandkishor	<i>Jyotna</i>
A-38	Gayatri laxman Ghuge	<i>Gayatri</i>
A-12	Manisha Babu Bhal	<i>Manisha</i>
A-37	Gawale Lipakshi Shashikant	<i>Lipakshi</i>
A-45	mayuri phanlal Jaiswal	<i>Mayuri</i>
A-35	Kadambaki Sujit Dhumat	<i>Kadambaki</i>
A-10	Krishna Bhagwan Bharti	<i>Krishna</i>
A-08	Roshni Vilas Bhamare	<i>Roshni</i>
A-06	Bhadrani Aadrika Kishor	<i>Bhadrani</i>
A-19	Bhumika Anup Chaudhari	<i>Bhumika</i>
A-39	Sudarshan Baliram Hiray	<i>Sudarshan</i>
A-21	Chaudhari Priya Lalit	<i>Priya</i>
A-15	Chaitanya Ganesh Redase	<i>Chaitanya</i>
A-30	deshmukh Piyush Jayvant	<i>Piyush</i>
A-55	Malkar Anant Shailendra	<i>Malkar</i>

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A-04	Vijay Dilip Bari	Vijay
A-36	Gangurde Tejar Anil	Tejar
A-43	Sagar Khanderave Jadhav.	Sagar
A-11	Bhanwar Chaitanya Anil	Bhanwar
A-16	Borase Mayur Dilip	Mayur
A-26	Deore Hitesh Asaram	Hitesh
A-25	Deo Sarvesh Jankardan	Sarvesh
A-05	Benke Prashant Papat	Prashant
A-23	Pradip Sakharchand Chauvan	Pradip
A-09	Chaitanya Nitin Bhandari	Nitin
A-28	Prufull Ravindra Desai	Prufull
A-03	Raj Prakash Banjara	Raj
A-13	Saurabh Ek Nath Bhombhe	Saurabh
A-1		
A-27	Deore Yashdeep Bhanat	Yashdeep
A-53	Rhupesh Santosh Mali	Rhupesh
A-31	Deekmulhe Prathmesh.	Prathmesh
A-32	Dhangar Mahesh.	Mahesh
A-58	Raj Kumbhar	Raj
A-29	Nehmani Sandip.	Sandip
A-33	Dhole Gajanan	Gajanan
A-01	Punam Bairagi	Punam
A-24	Murteen Dhobra.	Murteen
A-14	Rahul Motilal Bilade	Rahul
A-40	Shubham Ingole	Shubham
A-34	Dhok Harshal	Dhok
A-07	Shubham P. Shadane	Shubham
A-20	Harshal P. Chaudhari	Harshal
A-56	Nilesh M. More	Nilesh
A-17	Vipul Borgaokar	Vipul
A-41	Ishwarchandea Suresh Jadhav	Ishwarchandea



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Subject Incharge

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Date: 18 / 12 / 2021

Department of Pharmacetics.

This is Certify that Mr. / Miss. Gujar Kalyani Macchindra

has satisfactorily carried out Experimental work as laid down for Semester V / XI /
III / IV / V / VI Final Year B. Pharm., of North Maharashtra University,
Jalgaon during the Academic session 2021 -2022
in the subject BP506P. Industrial Pharmacy-1.

LECTURER - IN - CHARGE

Date / / 202

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I N D E X

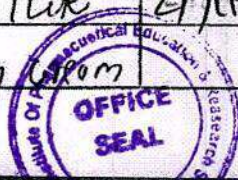
Sr. No.	Expt. No.	Name Of the Experiment	Date	Page No.	Marks	Signature	Remarks
	1.	Introduction to pre-formulation study	8/9/21	1-12	5		
	2)	To determine pre-formulation study of given excipient (starch)	8/9/21 13	13-17	5		
	3)	To study physiochemical properties of drug.	8/9/21	18-20	5		
	4)	Preparation of granules by extrusion spherulization	9/9/21	21-23	5		
	5)	Introduction to tablet machine (tooling)	15/9/21	24-26	4		
	6.	Preparation and evaluation of paracetamol compressed tablet	16/9/21	30-33	5		
	7.	To perform coating tablet film coating	22/9/21	39-46	5		
	8.	Quality Control test for marketed tablet	23/9/21	41	4		



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I N D E X

Sr. No.	Expt. No.	Name Of the Experiment	Date	Page No.	Marks	Signature	Remark
	9.	preparation & evaluation tetracycline capsule	29/9/21	42 44			
	10.	Quality Control test for marketed capsule	29/9/21	45 47			
	11.	preparation of calcium gluconate injection	7/10/21	48 49			
	12.	preparation of Ascorbic acid	14/10/21	50 52			
	13.	To prepare evaluate and submit log atropine sulphate eye ointment	18/10/21	53 54			
	14	To prepare evaluate submit 10 ml for chlorphenicol eye drop B.P	21/10/21	55 56			
	15	To prepare evaluate submit Cold cream	25/11/21	57 58			
	16.	To prepare evaluate submit Vanishing cream	21/11/21	59 60			



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Aim - Preparation granules by Extrusion-spheronization technique (demonstration)

Extrusion/spheronization

Extrusion spheronization is a multiple step process capable of mixing uniformly mixed sized particles. The process is now being widely utilized in the pharmaceutical industry.

As pharmaceutical dosage form pellets are defined as small free flowing, spherical or semispherical units made up of fine powder or granules of bulk drug and excipient by variety of process extrusion and spheronization being one.

It is primarily used a method to produce multiparticulate for immediate and controlled release application the major advantage over the producing drug on excessively large particle

Application

Two or more active can easily be combined in any ratio in the same unit these combination product can contain active that are incomplete or having varying release profile.

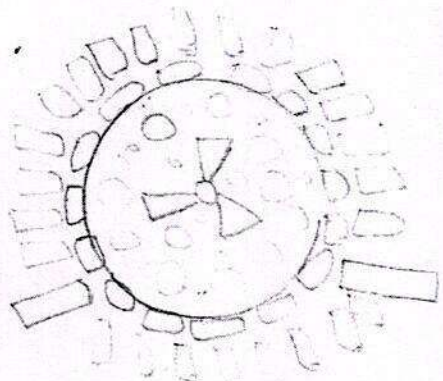
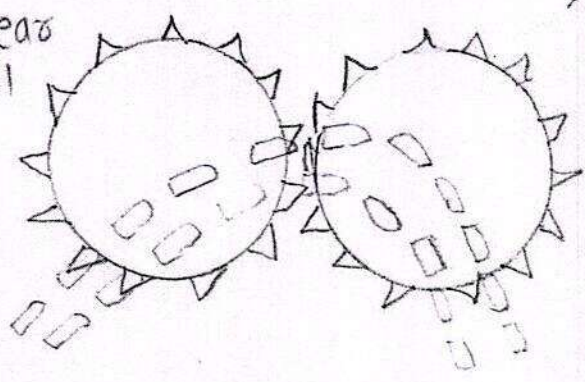
sphere can be used as method to limit drug migration physical characteristic of the active



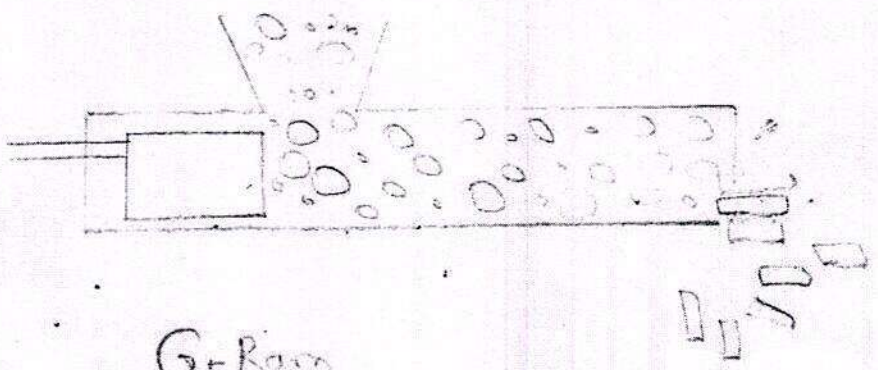
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Ingredient and excipients can be modified to improve physical properties and downstream processing product produced. Extrusion spherulization can be range from beasty & shaped spherulization very spherical particle having properties that are different.

- Granulating fluid
- or the process condition used to produce them.
- Microcrystalline cellulose (MCC) which deforms plasticity in the dry powder state.
- The deformation characteristic coupled with the larger size particle result in reduced bonding site and the production of weak compacts.

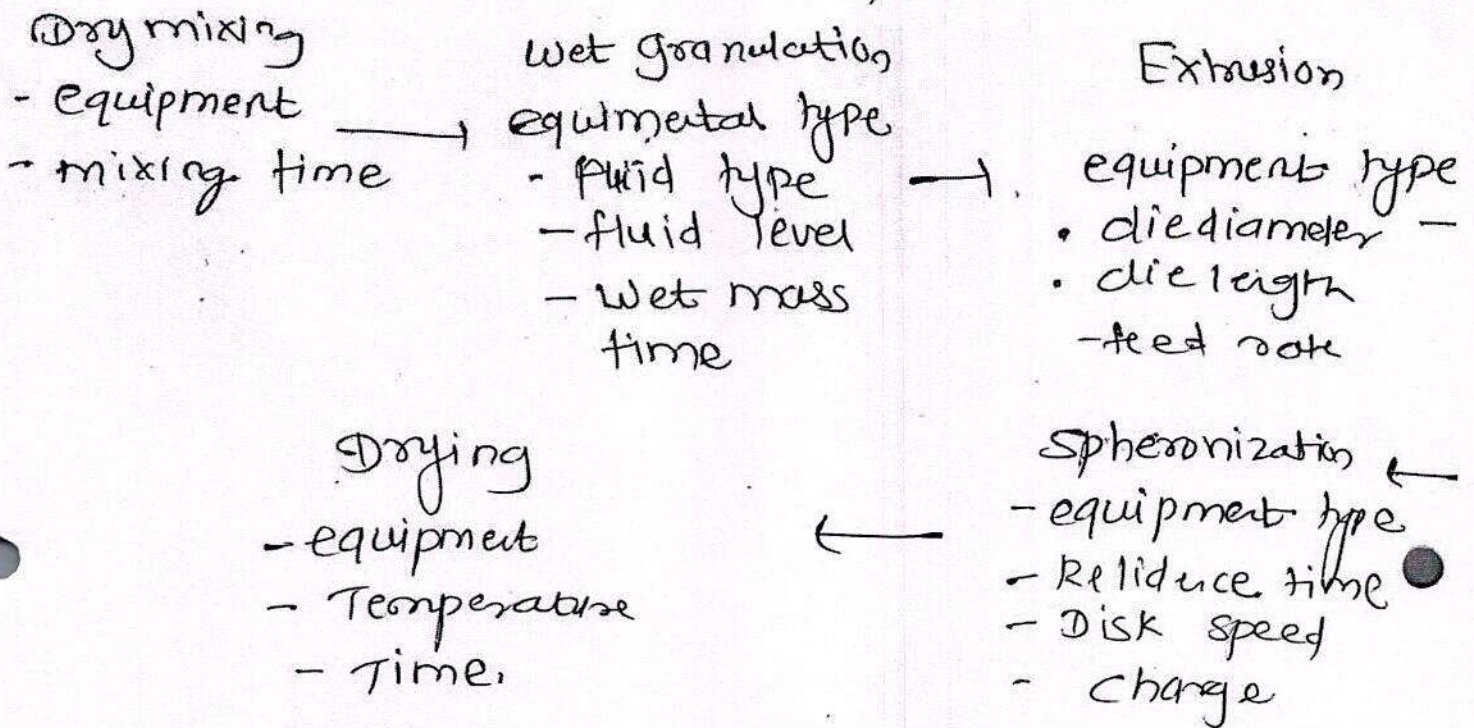
General process

- 1) 1st material are dry mixed to achieve a homogenous powder dispersion and then wet granulated.
- 2) To produce sufficiently plastic wet mass the wet mass is extruded.
- 3) To form rod shaped particle of uniform diameter that are charged into a spherulizer and rounded off.
- 4) Into spherical particle, the spherical particle are then dried.
- 5) To achieve the desired moisture content and optically screened.



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* Extrusion spherionization process flow chart of variables



No.	Ingredient	Quantity.
1	paracetamol	4
2	lactose	2
3	starch	3
4	magnesium stearate	0.1g
5	Talc	0.1g.



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6) To achieve a target size distribution

Granulation

The second step is granulation during which a wet mass having requisite plasticity or deformation characteristic is prepared.

- The amt of fluid needed to achieve sphere or uniform size and sphericity is likely to be greater than that for a sp^t similar granulation intended for tableting
- Instrumental such as ram extruder -
 - And a torque rheometer
- The ram extruder has been used to characterize the flow of wet masses through a die which have been divided into Stage they are
 - Compression
 - Steady state flow
 - forced flow.

Result = Preparation granulation by extrusion spheronization technique was successfully studied.

Reference =

- 1) Hazare AH Honamane SM. practical book of industrial Pharmacy 2021 - AIIBS Publisher India first edition.
- 2) Lackman Inberman theory & practical book of I.P. 2013 CBS publisher & distributor Pvt. Ltd delhi. 4 edition.



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Page No. 23

• Theory of tablet dosage form

- Tablet is defined as compressed solid dosage form containing medicament with or without excip

- Advantages =
- i) unit dosage form
 - ii) cost is low
 - iii) easy to swallow
 - iv) Mask bitter & unpleasant taste of drug.
 - v) greatest chemical and microbial stability.

• Disadvantage

- i) Not suitable in emergency & unconscious patient
- ii) Not suitable for pediatric and geriatric patient
- iii) Minimum bioavailability

Types.

- 1) Tablet ingested orally
- 2) Tablet used in oral cavity
- 3) Tablet administered by other route.

Tablet additives =

- i) diluent / fillers
- ii) wetting agent
- iii) Binder & adhesive
- iv) disintegration
- v) glidant
- vi) sweetening agent

* Types of tablet

- 1) Compressed tablet = single or multiple active ingredients with appropriate adjuvant prepared by compression without coating

- 2) Multiple compressed tablet =

a) secession of incompatible ingredient.

b) slow process.



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CRITERIA: 2

SUMMARY

TEACHING- LEARNING AND EVALUATION

Key Indicator: 2.3	Teaching- Learning Process
Metric No : 2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing.

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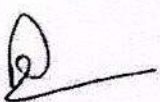
02/11/2020


NOTICE


All the students of Second Year B. Pharm (A division) are hereby informed to remain present for the Lecture on Special Topic (Content beyond Syllabus) on 04th November 2020 (Monday) at 10:30 am to 11:30 am.

Topics:

1. Demonstration of Chem Draw software for drawing chemical structures.
2. Use of Online tools freely available for drawing chemical structures of organic compounds


Subject In-charge
Mr. Z. G. Khan


Academic In charge
Dr. P. O. Patil


Dr. S. B. Bari
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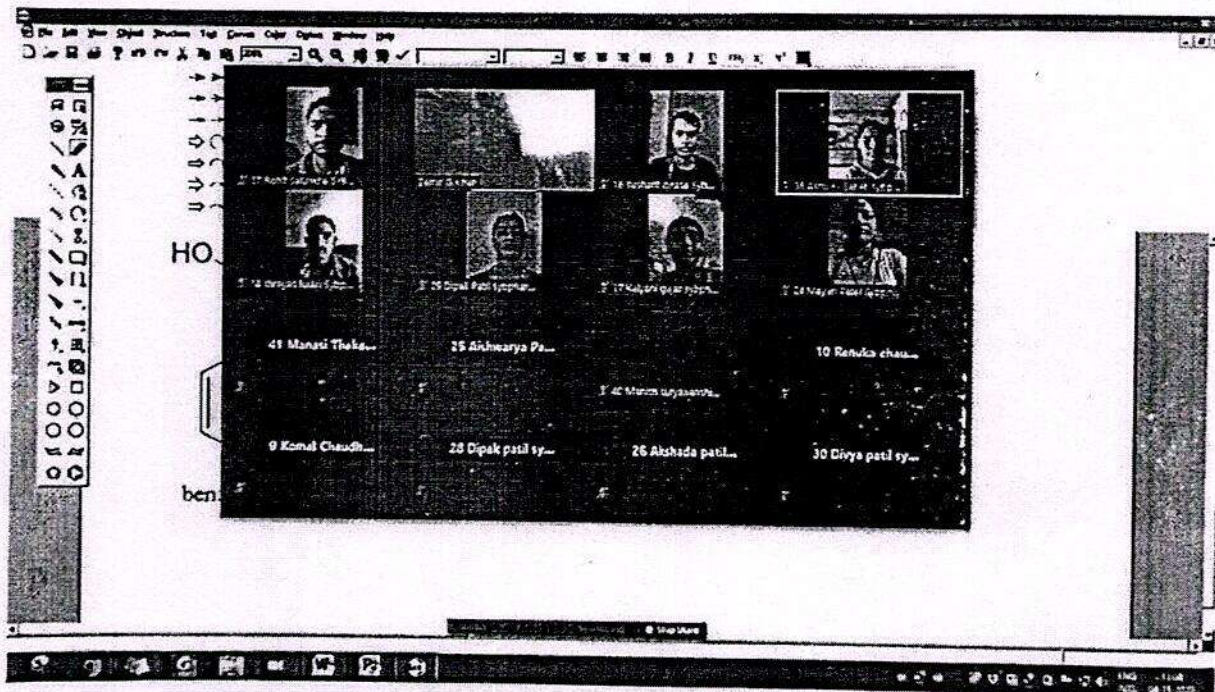
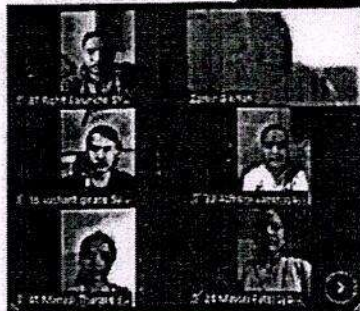
Demonstration of Chem Draw software for drawing chemical structures



Mr. Zamir G Khan

Assistant Professor

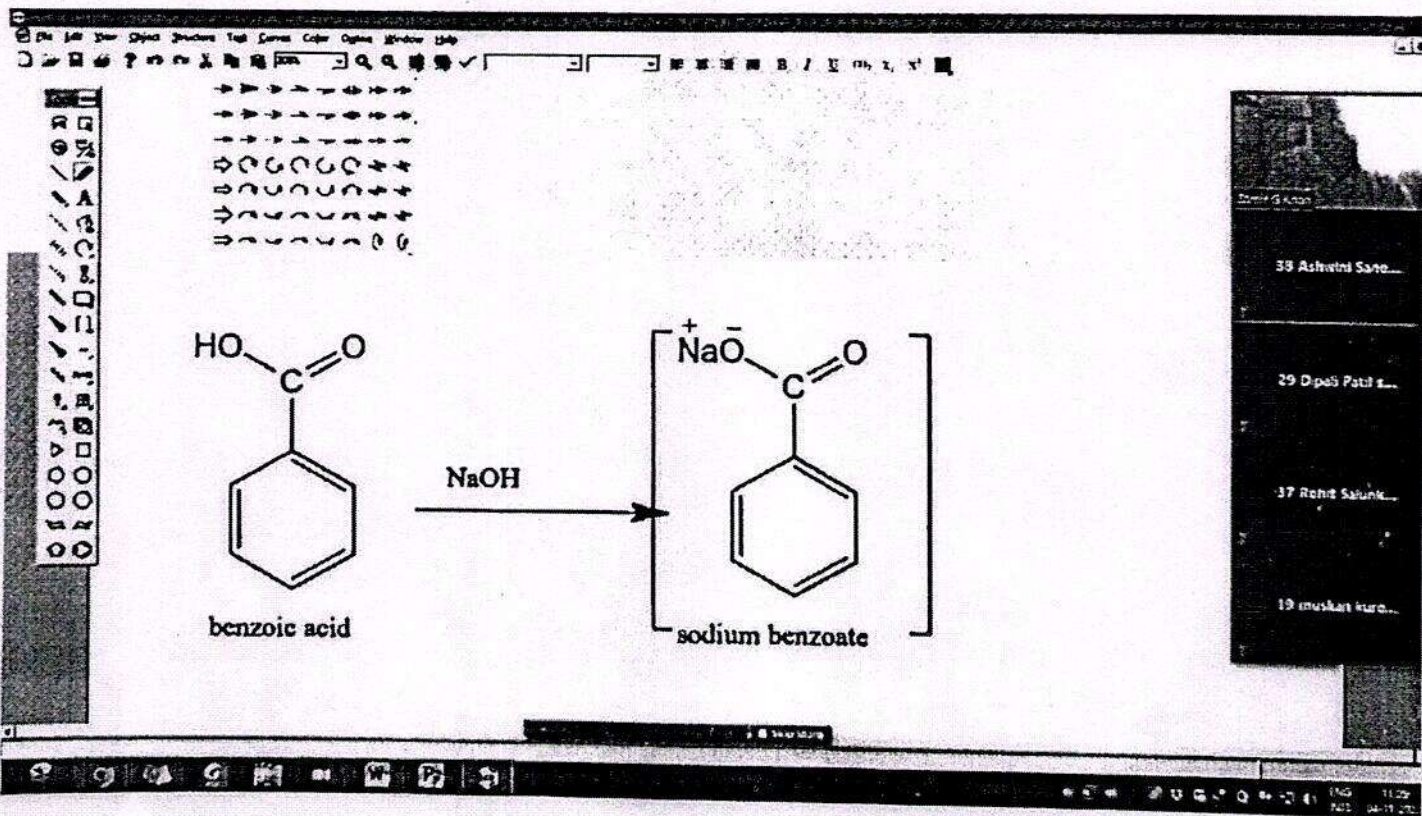
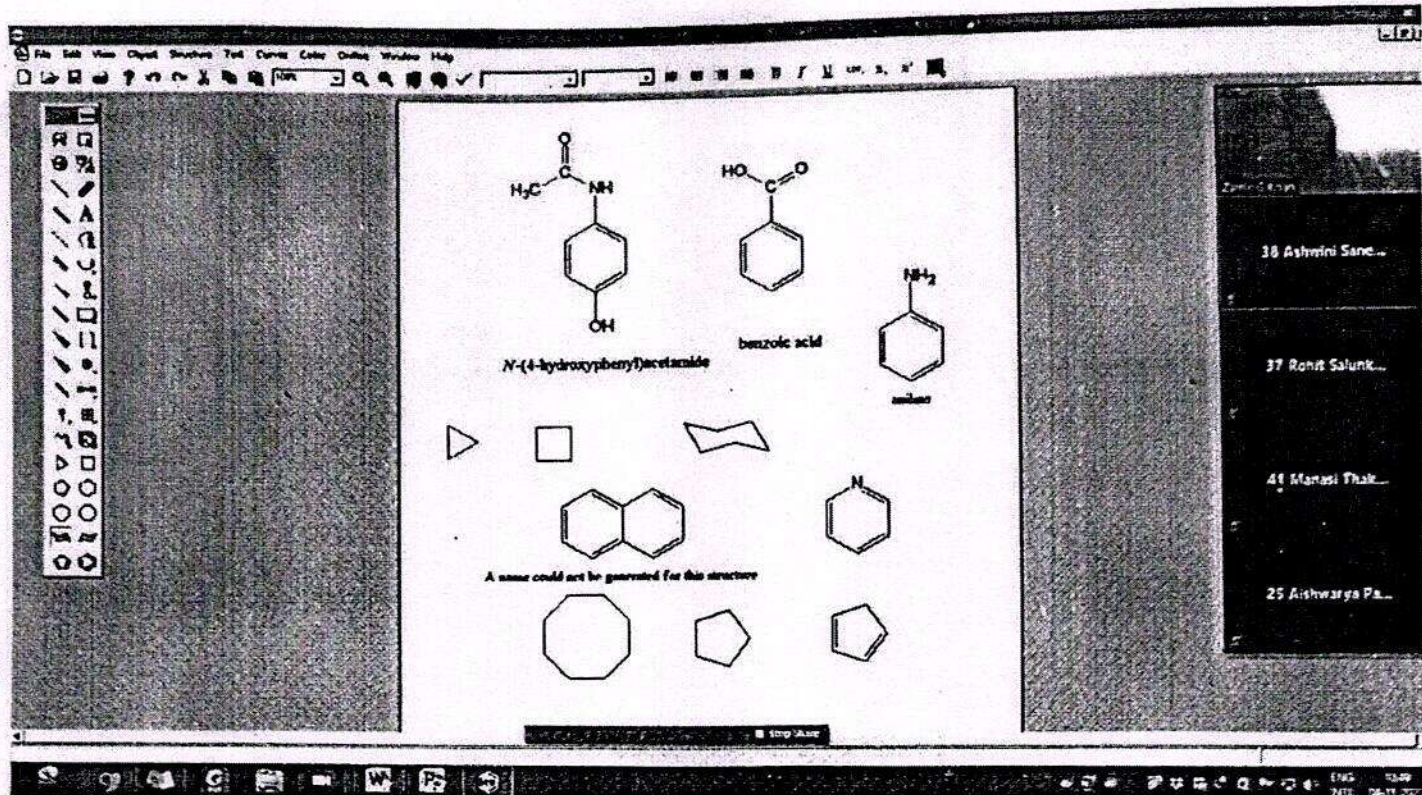
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Topic: Demonstration of Chem Draw software for drawing chemical structures



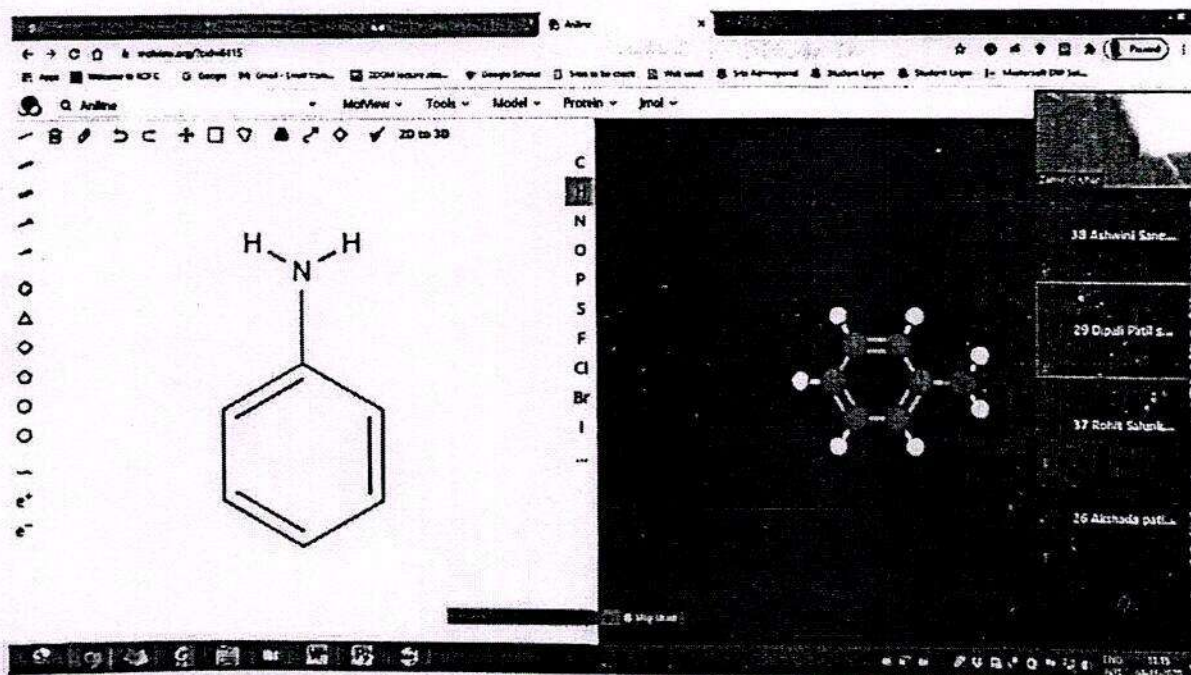
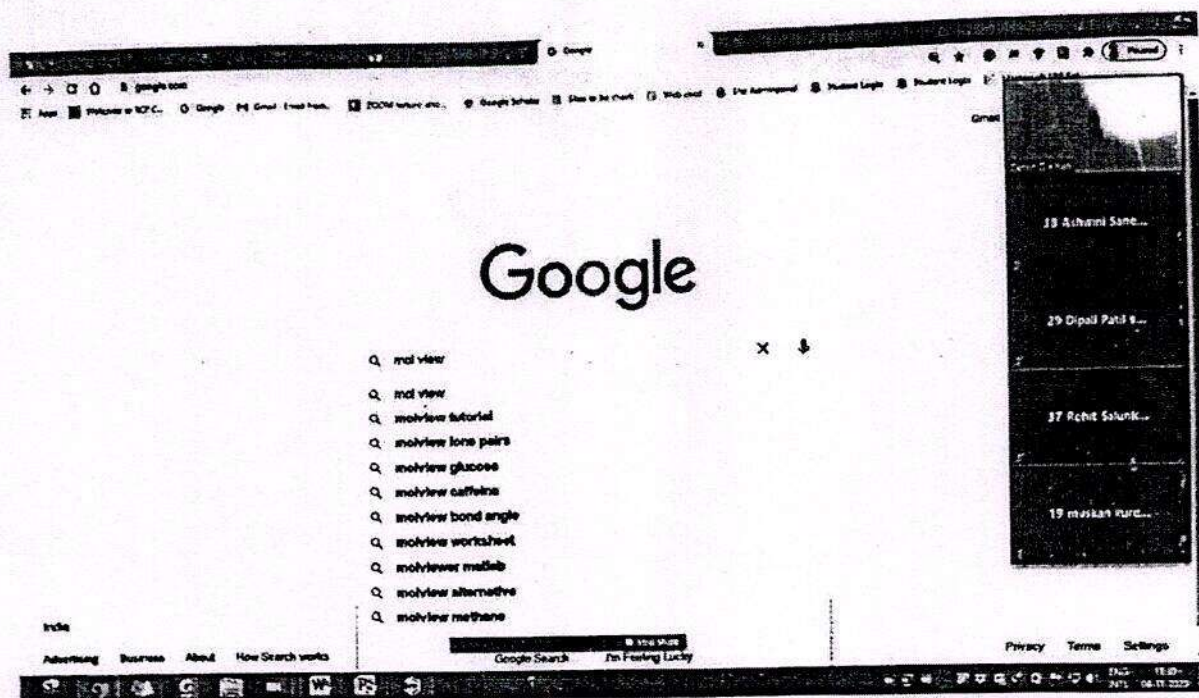
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Topic: Demonstration of Chem Draw software for drawing chemical structures



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Topic: Demonstration of Online Free tool for drawing chemical structures



Jayant
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Attendance SY B Pharm (A division) date: 04.11.2020			
Meeting ID	Topic: Demonstration of Chem Draw sof	Start Time	End Time
6889922823	Third B Pharmacy's Personal Meeting Room	11-04-2020 10:19	11-04-2020 11:28
Name (Original Name)	User Email	Total Duration (Minutes)	
Zamir G Khan (Third B Pharmacy)	hrpiper.bpharm3@gmail.com	64	
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4 Ashwini Bhamare sybpharm A		67	
5 Soham bhandore batch A	daundprasad77@gmail.com	56	
7 Devesh Chaudhari sybpharm A	ruchikadeshmukh0865@gmail.com	60	
8 Jayesh Chaudhari sybpharm A	pramodddhande45056@gmail.com	60	
9 Komal Chaudhari sybpharm A		58	
20 Amol Mahajan sybpharm A	yashpatil30@yahoo.com	59	
10 Renuka chaudhari sybpharm A		27	
11 Prasad Daund sybpharm A		58	
12 Ruchika Deshmukh sybpharm A		57	
13 Priyanka Dhande sybpharm A		58	
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17 Kalyani guja	mayurivpatel08@gmail.com	59	
17 Kalyani gujar sybpharm A	patilaishwarya105@gmail.com	63	
18 kajal ingale sybpharm A		62	
19 muskan kureshi sybpharm A		54	
21 Pranjalee mahajan sybpharm A		58	
22 Prashant Mahajan sybpharm	patildipali453@gmail.com	66	
23 Vrushali Nere sybpharm A		57	
24 Mayuri Patel Sybpharm A		61	
25 Aishwarya Patil sybph A		56	
26 Akshada patil sybpharm A		61	
27 Chetan Patil SyBpharm		60	
28 Dipak patil sybpharm	rajeshwarisalunke7387@gmail.com	60	
29 Dipali Patil sybpharm A		69	
3 Nikita Bhadane sybpharm A	ashwinisaner123@gmail.com	59	
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41 Manasi Thakare sybpharm A		1	




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Sub Incharge



Dr. S. B. Bari




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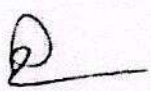
06/11/2020

NOTICE

All the students of Second Year B. Pharm (B division) are hereby informed to remain present for the Lecture on Special Topic (Content beyond Syllabus) on 07th November 2020 (Saturday) at 11:45 am to 12:45 pm.

Topics:

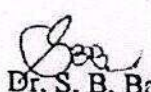
1. Demonstration of Chem Draw software for drawing chemical structures.
2. Use of Online tools freely available for drawing chemical structures of organic compounds



Subject In-charge
Mr. Z. G. Khan



Academic In charge
Dr. P. O. Patil



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Use of Chem Draw for drawing chemical structures.pptx - Microsoft PowerPoint


File Home Insert Design Layout References Annotations Slide Show Review View Print Reading View

Clipboard Font Paragraph Drawing

Slide Show

Use of Chem Draw for drawing chemical structures.pptx

Demonstration of Chem Draw software for drawing chemical structures



Mr. Zahir Q Khan
Assistant Professor
H. R. PATEL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH

Click to add notes

Slide 1 of 10

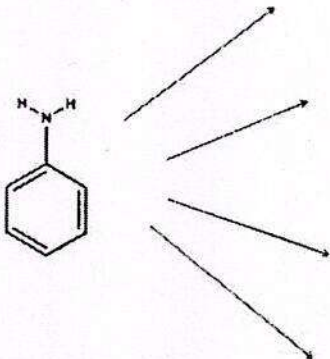
Use of Chem Draw for drawing chemical structures.pptx - Microsoft PowerPoint

File Home Insert Design Layout References Annotations Slide Show Review View Print Reading View

Clipboard Font Paragraph Drawing

Slide Show

Use of Chem Draw for drawing chemical structures.pptx



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Slide 2 of 10

Topic: Demonstration of Chem Draw software for drawing chemical structures



[Signature]
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molview.org/7ddh739

MolView Tools Model Protein jmol

20 to 30

C
H
O
P
S
F
Cl
Br
I
...

B-16 Nikita par...
B-32 ujwala pati...
B-21 Gaurav pat...
B-03 Hina Chha...

Home | About | MolView (jmol2.png) | MolView (libcurl.png)

12:30 07-11-2020

Chemical Reaction of Aniline

aniline + benzoyl chloride → N-phenylbenzamide + HCl

B-16 Nikita par...
B-32 ujwala pati...
B-23 Chetan Pat...
B-21 Gaurav pat...

12:33 07-11-2020


Topic: Demonstration of Online Free tool for drawing chemical structures



Soni
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Attendance Sheet S Y B Pharm (B division)

Meeting ID	Topic	Start Time	End Time
7441746778	Second B Pharmacy's Personal Meeting Room	11-07-2020 11:45	11-07-2020 12:44
Name (Original Name)			
User Email		Total Duration (Minutes)	
Second B Pharmacy	hrpiper.bpharm2@gmail.com	60	
B-02Rutuja Borse SYBPHARM	borserutuja2019@gmail.com	46	
B-03 Hina Chaudhari SYBPharm	chaudharihina2001@gmail.com	56	
B-04 Mayuri chaudhari		55	
B-05 Sakshi Chaudhari SYBPharm		56	
B-06 Shital Chaudhari S.Y.BPharm		56	
B-09 Kritika Dhumal SYB Pharm	kritikadhumal215@gmail.com	45	
B-10 Somnath Ghongade sybpharm	somnathghongde847@gmail.com	59	
B-16 Nikita pardeshi sybpharm B Pardeshi		57	
B-17 Vaibhavi Patel sybpharm	vaibhavi2001patel@gmail.com	58	
B-18 Aditya Patil SyBpharm	00avpatil@gmail.com	54	
B-20 Chetan Patil sybpharm		58	
B-21 Gaurav patil SYBPharm	gp3328037@gmail.com	58	
B-29 samadhan patil sybpharm B	patilsamadhan520@gmail.com	58	
B-30 Sujit Patil SYBPharm	sujitrp2001@gmail.com	57	
B-31 Swati Patil S Y B Pharm		3	
B-32 ujwala patil Sybpharm	ujwala1423@gmail.com	59	
B-33 Yogesh Patil SYBPharm	yogeshpatil27032000@gmail.com	16	
B-34 Sammyak Patni SYBPHARM	sammyakpatni143@gmail.com	51	
B-36 Swapnil Salunkhe sybpharm	swapnilsalunkhe9299@gmail.com	44	
B-39 Shahid Sybpharm	shaikhshahid035272@gmail.com	47	
B-40 Darshan sonawane sybpharm		40	
B-42 Mohini Tayade SYBPharm	tayademohini00@gmail.com	58	
B-43 Yukta Wankhede SYBpharm	yuktawankhede10@gmail.com	56	
Second B Pharmacy	hrpiper.bpharm2@gmail.com	60	



Mr. Zamir G Khan
Sub Incharge



Dr. S. B. Bari




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NRS
20-21

(46)

Notice

Date: 02/07/2021

Subject: Regarding conduction of lecture on 'Content Beyond Syllabus'.

Class: S.Y. B. Pharmacy (A division)

All students of S. Y. B. Pharmacy (A division) hereby informed that your lecture under scheme of 'Content Beyond Syllabus' is planned on 07/07/2021. The topic of lecture entitles "Demonstration of origin software". The lecture will be conducted on regular schedule.



Subject teacher

(Mr. N. R. Shirsath)



Principal

(Dr. S. B. Bari)



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Meeting ID Topic Start Time End Time User Email Duration (MParticipants
 8.43E+10 Physical ph ##### ##### hrpiper03@ 58 55

Name (OrigUser Email Total DuratGuest

Nitin Shirsahrpiper03@	58	No
A-15 Prinsi Gangurde s	58	Yes
A-31 Jagruti patil sybph	57	Yes
A-02 Ajit Baviskar SYBp	57	Yes
A-17 kalyani gujar sybp	58	Yes
A-36 Rajeshwari Salunk	57	Yes
A-05 Soham bhandore	56	Yes
A-28 Dipak Patil	57	Yes
A-12 Ruchika Deshmuk	56	Yes
A-21 Pranjalee Mahaja	56	Yes
A-35 Kimaya pawar syb	56	Yes
A-42 Apurv Valvi sybph	57	Yes
A-25 Aishwarya Patil	56	Yes
A-06 Sarang Bharati Sy	56	Yes
A-43 Kunal Wadile Syb	57	Yes
A-24 Mayuri Patel Sybp	56	Yes
A-16 sushant girase Sy	57	Yes
A-32 Manoj Patil	56	Yes
A-09 Komal Chaudhari	56	Yes
A-40 Suryawanshi Man	56	Yes
A-37 Rohit Salunkhe sy	56	Yes
A-34 Pallavi Patil sybph	56	Yes
A-30 Divya Patil sybpha	56	Yes
A-39 Akshad Soni sybp	56	Yes
A-13 Priyanka Dhande	55	Yes
A-27 Chetan Patil	56	Yes
A-14 Shreyas Fulari Syb	56	Yes
A-4 Ashwini Bhamare s	56	Yes
A-26 Akshada patil syb	56	Yes
A-33 Minal Patil	55	Yes
A-20 Amol Mahajan sy	55	Yes
A-41 Manasi Thakare	51	Yes
A-07 Devesh Chaudhar	56	Yes
A-1 Kshitij bari Syphar	54	Yes
A-23 Vrushali Nere	54	Yes
A-38 Saner Ashwini syb	54	Yes
A-29 Dipali Patil sybph	53	Yes
A-19 Muskan Kureshi s	53	Yes
A-10 Renuka Chaudhar	53	Yes
A-08 Jayesh Chaudhari	51	Yes
A-11 Prasad Daund	47	Yes
A-03 Nikita Bhadane	47	Yes
A-22 Prashant Mahajan	23	Yes



[Signature]
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Attendance

Meeting ID	Topic	Start Time	End Time	User Email	Duration (Minutes)	Participants
84281848490	Physical pharmaceutics II NRS	07/07/2021 12:02	13:00:26	hrpiper03@gmail.com	58	55
Name (Original Name)	User Email	Total Duration (Minutes)	Guest			
Nitin Shirsath (HRPIPER Pharmacy)	hrpiper03@gmail.com	58	No			
A-15 Prinsi Gangurde sybpharm		58	Yes			
A-31 Jagruti patil sybpharm		57	Yes			
A-02 Ajit Baviskar SYBpharm		57	Yes			
A-17 kalyani gujar sybpharm		58	Yes			
A-36 Rajeshwari Salunke sybpharm		57	Yes			
A-05 Soham bhandore batch A		56	Yes			
A-28 Dipak Patil		57	Yes			
A-12 Ruchika Deshmukh sybpharm		56	Yes			
A-21 Pranjalee Mahajan		56	Yes			
A-35 Kimaya pawar sybpharm		56	Yes			
A-42 Apurv Valvi sybpharm		57	Yes			
A-25 Aishwarya Patil		56	Yes			
A-06 Sarang Bharati Sybpharm		56	Yes			
A-43 Kunal Wadile Sybpharm		57	Yes			
A-24 Mayuri Patel Sybpharm		56	Yes			
A-16 sushant girase Sybpharm A		57	Yes			
A-32 Manoj Patil		56	Yes			
A-09 Komal Chaudhari		56	Yes			




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sybpharm						
A-40 Suryawanshi Manish sybpharm		56	Yes			
A-37 Rohit Salunkhe sybpharm B		56	Yes			
A-34 Pallavi Patil sybpharm		56	Yes			
A-30 Divya Patil sybpharm		56	Yes			
A-39 Akshad Soni sybpharm		56	Yes			
A-13 Priyanka Dhande sybpharm A		55	Yes			
A-27 Chetan Patil		56	Yes			
A-14 Shreyas Fulari Sybpharm		56	Yes			
A-4 Ashwini Bhamare sybpharm		56	Yes			
A-26 Akshada patil sybpharm		56	Yes			
A-33 Minal Patil		55	Yes			
A-20 Amol Mahajan sybpharm		55	Yes			
A-41 Manasi Thakare		51	Yes			
A-07 Devesh Chaudhari sybpharm A		56	Yes			
A-1 Kshitij bari Sypharm		54	Yes			
A-23 Vrushali Nere		54	Yes			
A-38 Saner Ashwini sybpharm		54	Yes			
A-29 Dipali Patil sybpharm batch B		53	Yes			
A-19 Muskan Kureshi sybpharm		53	Yes			
A-10 Renuka Chaudhari		53	Yes			
A-08 Jayesh Chaudhari sybpharm		51	Yes			
A-11 Prasad Daund		47	Yes			
A-03 Nikita Bhadane		47	Yes			
A-22 Prashant Mahajan sybpharm		23	Yes			




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2020-2021

DDP

Lecture Detail

Month September Week _____ From 14/09/20 To 19/09/20

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 14/09/2020	Final & Pharm	BP701T Fundamental Methods of Analysis (T)	-	Hooker's law functional grs. identification	5
	TT	TT	-	functional gr. interpretation	5
Tuesday 15/09/2020	TT	TT	-	functional gr. interpretation	5
Wednesday 16/09/2020	TT	TT	-	IR Google crosscheck, IR spectra interpretation	5

Content beyond syllabus

Content beyond syllabus



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Attendance Sheet (Theory / Practical/Tutorial)

RP 2017 Instrumental
Metals & Analysis

Class: Final Year B Pharm
(Semester III)

Subject:

Roll No.	Name of Student	Date	L.No.																			
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
31	Pandey Rashika Shankar		A	1	2	3	4	5	6	7	8	9	10	11	A	12	13	14	15	16	17	18
32	Patel Hakim Shaikh Supac		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
33	Patil Akash Pratap		1	2	3	4	5	6	7	8	9	10	11	12	A	13	14	15	16	17	18	
34	Patil Bhupesh Kishor		1	2	3	4	5	6	7	8	9	10	11	12	A	13	14	15	16	17		
35	Patil Dhnanjay Vishwas		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
36	Patil Dipti Rajendra		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
37	Patil Gitanjali Rajendra		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A	A	16	17	
38	Patil Harshal Sanjay		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
39	Patil Janvi Gajendra		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14	15	16	17	18	19
40	Patil Kajal Deoram		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A	16	17	18	
41	Patil Kranti Rajendra		1	2	A	3	4	5	6	7	8	9	10	11	A	A	A	12	13	14	15	16
42	Patil Mayur Subhash		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14	15	16	17	18	19
43	Patil Nitin Ravindra		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A	16	17		
44	Patil Pavan Amrut		1	2	3	4	5	6	7	8	9	10	11	12	A	A	A	12	13	14	15	16
45	Patil Radhika Dilip		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
46	Patil Sumeet Vikas		1	2	3	4	5	6	7	8	9	10	11	12	A	13	14	15	16	17	18	A
47	Patil Vijay Ramkrushna		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
48	Pawara Dilip Lalsing		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14	15	16	17	18	19
49	Pinjari Sohil Shabbir		1	2	3	4	5	6	7	8	9	10	11	12	A	13	14	15	16	17	18	19
50	Punvatkar Avinash Anirudh		1	A	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	A	17	
51	Saindane Tushar Asaram		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14	15	16	A	17	18
52	Sawrate Mahesh Suryabhai		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	A	16	17	18	
53	Shewale Liladhar Yuvraj		1	2	3	4	5	6	7	8	9	10	11	12	A	A	13	14	15	16	17	18
54	Somvanshi Manoj Sharad		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14	15	16	17	18	A
55	Tangade Hemant Rambhadr		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
56	Thakur Atulsing		1	2	3	4	5	6	7	8	9	10	11	12	13	A	14	15	16	A	17	
57	Wagh Harshad Satish		1	2	3	4	5	6	7	8	9	10	11	12	A	A	A	13	A	A	14	15
58	Wani Sakshi Pravin		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
59	Wanjari Nilesh Shrawan		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	A		
60	Neriya Prashant Prafullakt		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		



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Attendance Sheet (Theory / Practical/Tutorial)

Roll No.	L.No.																																													
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46																				
31	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	A	42	43																				
32	19	20	21	22	A	A	23	24	25	26	27	28	A	A	29	30	31	32	33	34	35	36	37	A	38	39																				
33	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	A	38	39	40	41	42	43																				
34	18	19	20	21	A	A	22	23	24	25	26	27	28	29	30	31	32	33	34	A	35	36	37	A	38	39																				
35	20	21	22	23	24	25	26	27	28	29	30	31	32	33	A	34	35	A	36	37	38	39	A	40	41	42																				
36	20	21	22	23	24	25	A	26	27	28	29	A	30	31	32	33	34	35	36	37	38	39	40	41	A	42																				
37	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	A	37	38	39	A	40	41																				
38	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	A	38	39	40	41	42	43																				
39	20	21	22	23	24	25	26	27	28	29	30	31	A	A	32	33	34	35	36	A	37	38	39	A	40	41																				
40	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44																				
41	17	18	19	20	A	A	21	22	23	24	25	26	A	A	27	28	29	30	31	A	32	33	34	A	35	36																				
42	20	21	22	23	24	25	26	27	28	A	29	30	31	32	33	34	35	36	37	38	39	40	41	A	42	43																				
43	18	19	20	21	A	A	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	A	39	40																				
44	17	18	19	20	A	A	21	22	23	24	25	26	27	A	28	29	30	31	32	A	33	34	35	A	36	37																				
45	20	21	22	23	24	A	25	26	27	28	29	30	31	32	33	34	A	35	36	37	38	39	40	41	42	43																				
46	19	20	21	22	23	24	25	26	27	28	29	30	31	32	A	33	34	35	36	A	37	38	39	A	40	41																				
47	18	19	20	21	22	23	24	25	26	27	A	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42																				
48	20	A	21	22	A	23	24	25	A	26	27	28	A	A	29	30	31	32	33	34	35	36	37	38	39	40																				
49	20	21	A	22	A	23	24	25	26	27	28	A	29	30	31	32	33	34	A	35	36	37	38	39	40																					
50	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	A	37	38	39	A	40	41																				
51	19	20	21	22	23	A	24	25	26	27	28	29	A	A	30	31	32	33	34	A	35	36	37	A	38	39																				
52	19	20	21	22	23	24	25	26	27	28	29	30	31	A	32	33	34	35	36	37	38	39	40	41	42	43																				
53	19	20	21	22	A	A	23	24	25	26	27	28	A	A	29	30	31	32	33	A	34	35	36	A	37	38																				
54	19	20	21	22	23	A	24	25	26	27	28	29	30	A	31	32	33	34	35	A	36	37	38	A	39	40																				
55	19	20	21	22	A	A	23	24	25	26	27	28	29	30	31	32	33	34	35	A	36	37	38	39	40	41																				
56	18	19	20	21	22	23	24	25	26	A	27	28	29	30	31	32	33	34	35	36	37	38	39	40	A	41																				
57	18	17	18	19	A	A	20	21	22	23	24	25	26	A	27	28	29	30	31	A	32	33	34	A	35	36																				
58	18	19	20	21	22	23	24	25	26	27	28	29	A	30	31	32	33	34	35	A	36	37	38	39	A	40	41	42																		
59	18	19	20	21	22	23	24	25	26	27	28	A	29	30	31	32	A	33	34	35	36	A	37	38	39	40																				
60	19	20	21	22	23	24	25	A	26	27	28	29	30	31	A	32	33	34	35	36	37	38	39	40	A	41	42																			



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Attendance Sheet (Theory / Practical/Tutorial)

RP 2017 *Distilled*
Methods of Analysis

Class: *Final Year B Pharm*
(500240017)

Subject:

Roll No.	Name of Student	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
61	Borse Bhushan Ashok	L.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20



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Attendance Sheet (Theory / Practical/Tutorial)

Roll No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	
61	18	19	20	21	A	A	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	A	35	36	37	A	38	39															



[Signature]
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Practical Instruments
Method of Analysis

Attendance Sheet (Theory / Practical/Tutorial)

Class: Final Year B.Pharm
(Correspondence)

Roll No.	Name of Student	Date	Subject																										
			L.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20						
1	Amrutkar Rohit Rajendra	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60								
2	Baviskar Aniket Ravindra	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	A	58	59	60								
3	Bhadane Supriya Vijay	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55								
4	Borse Gunvant Anil	A	38	39	40	41	42	43	A	44	45	46	47	48	49	50	51	A	52	53	54								
5	Borse Prafull Prashant	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	A	56	57	58								
6	Borse Vishwajeet Subhash	A	41	42	43	44	45	46	A	47	48	49	50	51	52	53	54	A	55	56	57								
7	Chaudhari Minakshi Ravindra	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63					
8	Chavan Pushpak Nitin	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57								
9	Chordiya Anjali Satish	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61								
10	Deokar Saurav Shivaji	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61								
11	Dhake Nikita Ulhas	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								
12	Dhanwani Harsha Manojkum:	45	46	47	48	49	50	51	52	53	54	55	56	A	57	58	59	60	61	62	63								
13	Gawande Shivaji Subhash	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62								
14	Gaware Mayur Balasaheb	42	43	44	45	46	47	48	49	50	51	52	53	54	A	55	56	57	58	59	60	61							
15	Girase Mahesh Bharatsing	43	44	45	46	47	48	49	50	51	A	52	53	54	55	56	57	58	A	59	60								
16	Hire Rahul Sandip	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63					
17	Jadhav Mayuri Sopan	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								
18	Jain Gunjan Avinash	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								
19	Kekan Gokul Shankar	40	41	42	43	44	45	46	A	47	48	49	50	51	52	53	54	55	56	57	58								
20	Khadke Monika Anil	42	43	44	45	46	47	48	49	50	51	52	53	A	54	55	56	57	58	59	60								
21	Landage Mangesh Dnyaneshv	40	41	42	43	44	45	46	A	47	48	49	50	51	52	53	54	A	55	56	57								
22	Mahajan Prafulla Ramchandr:	44	45	46	47	48	49	50	51	52	A	53	54	55	56	57	58	59	60	61	62								
23	Mahajan Priya Radeshyam	43	44	45	46	A	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61								
24	Mahajan Rupali Ravindra	44	45	46	47	48	49	50	51	52	53	54	55	A	56	57	58	59	60	61	62								
25	Mansuri Faizan Ahmed Abdul	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61								
26	Mowade Nachiket Virendra	A	42	43	44	45	46	47	48	49	50	51	52	A	53	54	55	56	57	58	59								
27	Nagote Kiran Dineh	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63								
28	Naik Abhishekh Jyotmal	41	42	43	44	45	46	47	48	49	50	51	52	A	53	54	55	A	56	57	58								
29	Nalwade Trupti Rajeshkumar	A	40	41	42	43	44	45	A	46	47	48	49	50	51	52	53	54	55	56	57								
30	Nayak Nitesh Dashrath	43	44	45	46	47	48	49	A	50	51	52	53	A	54	55	56	57	58	59	60								



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Attendance Sheet (Theory / Practical/Tutorial)

Roll No.	Subject																																													
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46																				
01	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	A	77	78	79	A	80	81	82	83	84																				
02	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	A	77	78	79	80	81	82	83	84	85																				
03	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	A	72	73	74	A	75	76	77	78	79																				
04	55	56	57	58	59	60	61	62	63	A	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79																				
05	59	60	61	62	63	64	65	66	67	A	68	69	70	71	72	73	A	74	75	76	A	77	78	79	80	81																				
06	58	A	A	59	60	61	62	63	64	A	65	66	67	68	69	70	A	71	72	73	74	75	76	77	78	79																				
07	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	A	80	81	82	83	84	85	86	87	88																				
08	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	A	74	75	76	77	78	79	80	81	82																				
09	62	63	A	64	65	66	67	68	69	A	70	71	72	73	74	75	A	76	77	78	79	80	81	82	83	84																				
10	62	A	A	63	64	65	66	67	68	A	69	70	71	72	73	74	A	75	76	77	78	79	80	81	82	83																				
11	64	65	66	67	68	A	69	70	71	72	73	74	75	76	77	78	A	79	80	81	82	83	84	85	86	87																				
12	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	A	80	81	82	83	84	85	86	87	88																				
13	63	64	A	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87																				
14	62	63	A	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86																				
15	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86																				
16	61	62	A	63	64	65	66	67	68	69	70	A	71	72	73	74	75	76	77	78	79	A	80	81	82	83																				
17	64	65	A	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88																				
18	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	A	80	81	82	83	84	85	86	87	88																				
19	59	60	A	61	62	63	64	65	66	A	67	68	69	70	71	72	A	73	74	75	76	77	78	79	80	81																				
20	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86																				
21	58	59	A	60	61	62	63	64	65	A	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81																				
22	63	64	65	66	67	A	68	69	70	71	72	73	74	75	76	77	78	79	80	81	A	82	83	84	85	86																				
23	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87																				
24	A	63	64	65	66	67	68	69	70	71	72	73	74	75	76	A	77	78	79	80	81	82	83	84	85	86																				
25	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	A	78	79	80	A	81	82	83	84	85																				
26	60	61	62	63	64	65	66	67	68	A	69	70	71	72	73	74	A	75	76	77	78	79	80	81	82	83																				
27	64	65	A	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88																				
28	59	60	A	61	62	63	64	65	66	A	67	68	69	70	71	72	73	74	75	76	A	77	78	79	80	81																				
29	58	59	A	60	61	62	63	64	65	A	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81																				
30	61	62	63	64	65	66																																								



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Attendance Sheet (Theory / Practical/Tutorial) ^{BP 201 Instrumental}
Methods of Accounting

Class: Final Year B.Com
(Semester VII)

Subject: Accounting

Roll No.	Name of Student	Date	Subject																				
			L.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
31	Pandey Rashika Shankar	A	24	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
32	Patel Hakim Shaikh Supadu	40	41	42	43	44	45	46	A	47	48	49	50	51	52	53	54	55	56	57	58	59	60
33	Patil Akash Pratap	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63		
34	Patil Bhupesh Kishor	A	40	41	42	43	44	45	A	46	47	48	49	50	51	52	53	A	54	55	56		
35	Patil Dhnanjay Vishwas	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
36	Patil Dipti Rajendra	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
37	Patil Gitanjali Rajendra	42	43	44	45	46	47	48	49	50	51	52	A	53	54	55	56	57	58	59	60		
38	Patil Harshal Sanjay	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63		
39	Patil Janvi Gajendra	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61		
40	Patil Kajal Deoram	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	A	61	62	63		
41	Patil Kranti Rajendra	A	37	38	39	40	41	42	A	43	44	45	A	46	47	48	49	50	51	52	53		
42	Patil Mayur Subhash	44	45	46	47	48	49	50	A	51	52	53	A	54	55	56	57	A	58	59	60		
43	Patil Nitin Ravindra	A	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	A	56	57	58		
44	Patil Pavan Amrut	A	38	39	40	41	42	43	A	44	45	46	47	48	49	50	A	51	52	53			
45	Patil Radhika Dilip	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63		
46	Patil Sumeet Vikas	42	43	44	45	46	47	48	49	50	51	52	A	53	54	55	56	A	57	58	59		
47	Patil Vijay Ramkrushna	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
48	Pawara Dilip Lalsing	A	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59		
49	Pinjari Sohail Shabbir	41	42	43	44	45	46	47	48	49	50	51	A	52	53	54	55	A	56	57	58		
50	Punvatkar Avinash Aniruddha	A	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60		
51	Saindane Tushar Asaram	A	40	41	42	43	44	45	A	46	47	48	49	50	51	52	53	54	55	56			
52	Sawrate Mahesh Suryabhanji	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63		
53	Shewale Liladhar Yuvraj	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58		
54	Somvanshi Manoj Sharad	A	41	42	43	44	45	46	A	47	48	49	50	51	52	53	54	55	56	57			
55	Tangade Hemant Rambhau	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	A	58	59	60		
56	Thakur Atulsing Rambhansing	A	42	43	44	45	46	47	A	48	49	50	A	51	52	53	54	55	56	57	58		
57	Wagh Harshad Satish	A	37	38	39	40	41	42	A	43	44	45	A	46	47	48	49	A	50	51	52		
58	Wani Sakshi Pravin	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62		
59	Wanjari Nilesh Shrawan	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	A	57	58	59		
60	Neriya Prashant Prfullakum	A	42	43	44	45	46	47	A	48	49	50	A	51	52	53	54	A	55	56	57		



THE SHIRPUR EDUCATION SOCIETY
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Attendance Sheet (Theory / Practical/Tutorial)

Roll No.	Subject																									
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
31	63	64	A	65	66	67	68	69	70	71	72	73	74	75	76	77	A	78	79	80	81	82	83	84	85	86
32	59	60	61	62	63	64	65	66	67	A	68	69	70	71	72	73	A	74	75	76	77	78	79	80	81	82
33	64	65	66	67	68	A	69	70	71	72	73	74	75	76	77	78	A	79	80	81	82	83	84	85	86	87
34	57	A	A	58	59	60	61	62	63	A	64	65	66	67	68	69	A	70	71	72	73	74	75	76	77	78
35	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88
36	63	64	A	65	66	67	68	69	70	71	72	73	A	74	75	76	77	78	79	80	A	81	82	83	84	85
37	61	62	A	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	A	80	81	82	83	84
38	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	A	84	85	86	87	88
39	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	A	82	83	84	85	86
40	64	65	A	66	67	68	69	70	71	A	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87
41	54	A	55	56	57	58	59	60	61	A	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
42	61	A	A	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
43	59	60	A	61	62	63	64	65	66	A	67	68	69	70	71	72	A	73	74	75	76	77	78	79	80	81
44	54	A	A	55	56	57	58	59	60	A	61	62	63	64	65	66	A	67	68	69	70	71	72	73	74	75
45	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	A	80	81	82	83	84	85	86	87	88
46	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
47	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	A	83	84	85	86	87
48	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	A	76	77	78	79	80	81	82	83	84
49	59	A	60	61	62	63	64	65	66	A	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
50	61	62	A	63	64	65	66	67	68	A	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
51	57	A	A	58	59	60	61	62	63	A	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
52	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	A	80	81	82	83	84	85	86	87	88
53	59	A	A	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	A	77	78	79	80	81
54	58	59	A	60	61	62	63	64	65	A	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
55	61	62	63	64	65	66	67	68	69	A	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
56	59	60	A	61	62	63	64	65	66	A	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82
57	53	A	A	54	55	56	57	58	59	A	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
58	65	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	A	79	80	81	82	83	84	85	86	87
59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	A	76	77	78	79	80	81	82	83	84
60	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	A	74	75	76	77	78	79	80	81	82

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Attendance Sheet (Theory / Practical/Tutorial)

307017 Instrumental
Metals & Alloys

Roll No.	Name of Student	Date	L.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
61	Borse Bhushan Ashok		A	40	41	42	43	44	45	A	46	47	48	49	A	50	51	52	A	53	54	55	



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Attendance Sheet (Theory / Practical/Tutorial)

Roll No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46
61	56	A	A	S	58	59	60	61	62	A	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78



[Signature]
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THE SHIRPUR EDUCATION SOCIETY
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2020-2021

DDP

Lecture Detail

Month June Week _____ From _____ To _____

Day & Date	Class	Subject	Syllabus Planned	Syllabus Covered	References
Monday 24/06/2021	Final & Pharm	BPSDT	(23) Response surface methodology - optimization techniques	optimization technique	
Tuesday 25/06/2021 content beyond syllabus.	-	-	Optimization techniques and Use of DOE and optimization in <u>Pharmaceutical</u> <u>Research</u> .	optimization techniques.	
Wednesday /201	-	-			



[Signature]
PRINCIPAL
H.R. Patel Institute of Pharmaceutical
Education & Research
Shirpur Dist. Dhule (M.S.) 425 405

(58)



President :
Shri Amrishbhai R. Patel
M.L.A.

Principal :
Dr. S. B. Bari
M.Pharm. Ph.D., D.I.M.F.J.C.

CRITERIA: 2

SUMMARY

TEACHING- LEARNING AND EVALUATION

Key Indicator: 2.3	Teaching- Learning Process
Metric No : 2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing.

HANDS ON LEARNING – 2019 - 20

I N D E X

Sr. No.	Expt. No.	Name Of the Experiment	Date	Page No.	Marks	Signature	Remarks
	1.	Introduction to pre-formulation study	8/9/21	1-12	5		
	2)	To determine pre-formulation study of given excipient (starch)	8/9/21 12	13-17	5		
	3)	To study physicochemical properties of drug.	8/9/21	18-20	5		
	4)	Preparation of granules by extrusion spherulization	9/9/21	21-23	5		
	5)	Introduction to tablet machine (tooling)	15/9/21	24-26	4		
	6.	Preparation and evaluation of paracetamol compressed tablet	16/9/21	30-33	5		
	7.	To perform coating tablet film coating	22/9/21	39-46	5		
	8.	Quality Control test for marketed tablet	23/9/21	41	4		



PRINCIPAL
Haryana

I N D E X

Sr. No.	Expt. No.	Name Of the Experiment	Date	Page No.	Marks	Signature	Remarks
	9.	Preparation & evaluation tetracycline capsule	29/9/21	42 44			
	10.	Quality control test for marketed capsule	23/9/21	45 47			
	11.	Preparation of Calcium gluconate injection	7/10/21	48 49			
	12.	Preparation of Ascorbic acid	14/10/21	50 52			
	13.	To prepare evaluate and submit log atropine sulphate eye ointment	18/10/21	53 54			
	14.	To prepare evaluate Submit 10ml for chlorphenicol eye drop B.P	21/10/21	55 56			
	15.	To prepare evaluate Submit Cold cream	25/11/21	57 58			
	16.	To prepare evaluate Submit Vanishing cream	27/11/21	59 60			



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Aim - Preparation granules by Extrusion-spheronization technique (demonstration)

Extrusion/spheronization

Extrusion spheronization is a multiple step process capable of mixing uniformly mixed sized particles. The process is now being widely utilized in the pharmaceutical industry.

As pharmaceutical dosage form pellets are defined as small free flowing, spherical or semispherical units made up of fine powder or granules of bulk drug and excipient by variety of process extrusion and spheronization being one.

It is primarily used a method to produce multiparticulate for immediate and controlled release application the major advantage over the producing drug on excessively large particle

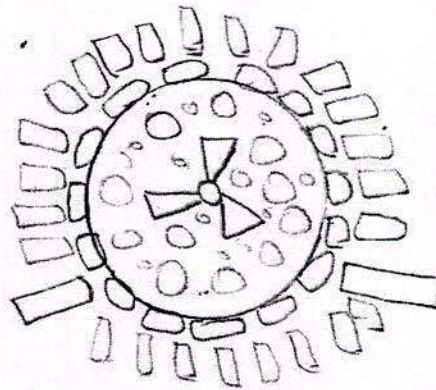
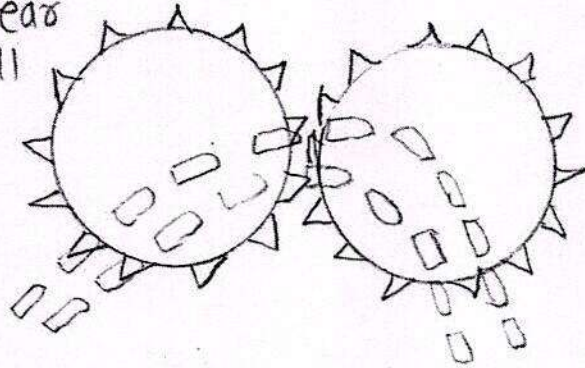
Application

Two or more active can easily be combined in any ratio in the same unit these combination product can contain active that are incomplete or having varying release profile

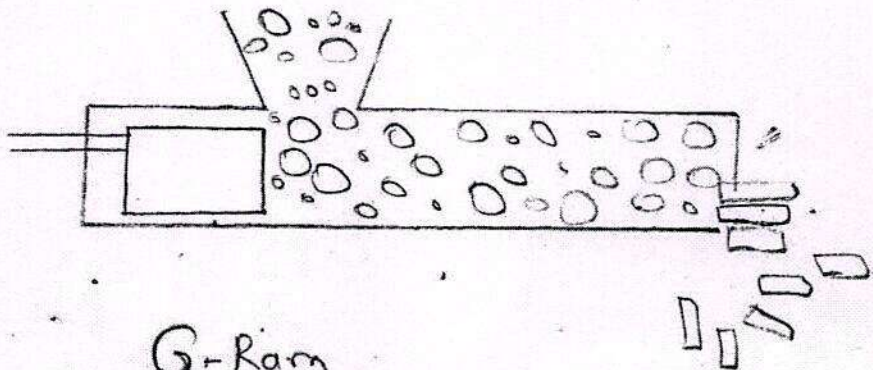
sphere can be used as method to limit drug migration physical characteristic of the active



e) Gear Roll



Radial



Q-Ram



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Date:

Expt.No.

Ingredient and excipient can be modified to improve physical properties and down stream processing product produced extrusion spherulization can be range from beasty shaped spherulization very spherical particle having properties that are different.

- granulating fluid
- or the process condition used to produce them.
- microcrystalline cellulose (MCC) which deforms plasticity in the dry powder state
- The deformation characteristic coupled with the larger size particle result in reduced bonding site and the production of weak compacts.

General process

- 1) 1st material are dry mixed to achieve a homogenous powder dispersion and then wet granulated.
- 2) To produce sufficiently plastic wet mass the wet mass is extruded.
- 3) To form rod shaped particle of uniform diameter that are charged into a spherulizer and rounded off
- 4) Into spherical particle, the spherical particle are then dried.
- 5) To achieve the desired moisture content and optically screened.



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Record of Content Beyond Syllabus

Date	Name of the Topic	Contents	Mapping with PEO
21/11/19 27/11/19 29/11/19	To study of defects in tablet & their remedies.	Tablet	CO - 1, 2,
2/12/19	To prepare std. calibration curve of paracetamol & diclofenac.	Basic concept	CO - 1, 2.
6/12/19	Diffusion study through biological membrane	Basic concept	CO 1, 2,
17/11/19 17/11/19 17/11/19	To study of folding of tablet machine	— —	CO. 1, 2.

Record of Training / Visit

Details of Training / Visit



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Shirpur, Dist. Dhule (M.S.)



Date : / / 201


Department of Pharmaceutics.

This is Certify that Mr. / Miss. Anjali Satish Chordiya.

has satisfactorily carried out Experimental work as laid down for Semester I / II / III / IV / V / VI Final Year B. Pharm., of North Maharashtra University, Jalgaon during the Academic session 2019 -2020
in the subject Industrial Pharmacy - I

LECTURER - IN - CHARGE

Date 12/12/2019


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