



॥ उत्तम भेषज निर्माणार्थं कटिबद्धम् ॥

JAYWANT SHIKSHAN PRASARAK MANDAL'S

# RAJARSHI SHAHU COLLEGE OF PHARMACY & RESEARCH

(Approved by AICTE & PCI, Affiliated to SPPU & Accredited by NAAC With 'A' Grade)



S. No. 82/2, Pune - Mumbai By Pass Highway, Tathawade, Pune 411 033.

**Prof. Dr. T. J. Sawant**  
B.E. (Elec.), PGDM, Ph.D.  
FOUNDER SECRETARY

E-mail : krkhandelwal@gmail.com Website : www.jspmrsopr.edu.in  
Rajarshi Shahu College of Pharmacy & Research, Tathawade, Pune - 411 033  
DTE CODE :- PH6367

**Dr. K. R. Khandelwal**  
M. Pharm, Ph. D.  
PRINCIPAL

Date : 4/7/22

## NOTICE

This is to inform all faculty members that the following teachers have been appointed as members of Academic monitoring committee for the Academic Year 2022-23

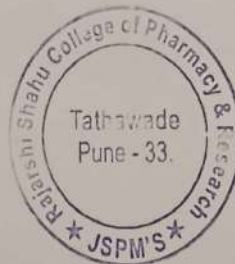
### Academic Monitoring Committee Members- 2022-23

Sr. No.	Name of Members	Designation	Sign
1.	Dr. K.R. Khandelwal	Principal (Chairman)	
2.	Mrs. Priya Rodge- Rangari	Academic Incharge -UG	
3.	Mr. Krishnakumar Lone	Exam Incharge	
4.	Mrs.Vrushali Kakad	F.Y. Class Teacher	
5.	Mrs.Madhavi Bindu	S.Y. Class Teacher	
6.	Mrs. Trupti Deshpande	T.Y. Class Teacher	
7.	Mrs. Nilima Chaudhari	Final Year Class Teacher	
8.	Dr. Ashlesha Pandit	Academic Incharge -PG	
9.	Dr. Prashant Ghode	First Year M. Pharm. Class Teacher	
10.	Dr. Atul Sayare	Second Year M. Pharm. Class Teacher	

Principal

PRINCIPAL

Rajarshi Shahu College of Pharmacy & Research  
Tathawade, Pune - 411 033.



**Savitribai Phule Pune University**  
( Formerly University of Pune)

**Circular No.39 of 2023**

**Dates of Commencement and Conclusion of terms for the Academic Year 2022-23  
for University Department / Affiliated Colleges / Recognised Institutes.**

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of University Courses, under various faculties, for the academic year 2022-23 shall be as under.

Sr No	Name of the Courses , Faculties & Year	2022 - 2023			
		First Term		Second Term	
		Commencement	Conclusion	Commencement	Conclusion
1	<b>Science &amp; Technology</b>				
	B.Pharmacy : I	27/12/2022	25/04/2023	15/05/2023	31/08/2023
	M.Pharmacy : I	27/12/2022	25/04/2023	15/05/2023	31/08/2023
2	<b>Interdisciplinary Studies</b>				
	M. S. W.	12/07/2022	20/12/2022	04/01/2023	13/05/2023
3	<b>Commerce &amp; Management</b>				
	M.B.A./ M.C.A.: I	01/11/2022	03/03/2023	05/04/2023	07/07/2023
	M.B.A. : II	01/09/2022	30/01/2023	05/04/2023	07/07/2023
	M.C.A. : II	01/09/2022	16/12/2022	05/04/2023	07/07/2023

**NOTE :**

1. In case, the Principal of the Affiliated Colleges require to give additional holiday in exceptional circumstances, he/she may do so by compensating the same by keeping the College working on Sunday.

  
Deputy Registrar  
(P.G.Admission)

Ref. No. PGS/1188  
Date: 06/03/2023

**Copy to: for Information and necessary action**

- The Members of the Management Council.
- The Deans of Faculties.
- The Registrar, Savitribai Phule Pune University, Pune.
- The Director, Examinations & Evaluation, Savitribai Phule Pune University, Pune.
- The Heads of all University Departments.
- The Principals of all Affiliated Colleges.
- The Directors of all Recognized Institutes.
- The Heads of all the Administrative Sections of the University Office.
- Asstt. Registrar, office of the Hon. Vice-Chancellor, Savitribai Phule Pune University
- Asstt. Registrar, office of the Hon. Pro-Vice-Chancellor, Savitribai Phule Pune University





**Circular No. 173 of 2022**

**Important Notification**

**Dates of Commencement and Conclusion of terms for the Academic Year 2022-23  
for Affiliated Colleges / Recognised Institutes.**

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of University Courses, under various faculties, for the academic year 2022-23 shall be as under :

Sr No	Name of the Courses , Faculties & Year	2022 - 2023			
		First Term		Second Term	
		Commencement	Conclusion	Commencement	Conclusion
<b>Science &amp; Technology</b>					
1	Science	20/06/2022	08/11/2022	05/12/2022	04/05/2023
	B.Engineering : II	17/08/2022	10/12/2022	02/01/2023	29/04/2023
	B.Engineering : III IV	18/07/2022	05/11/2022	02/01/2023	29/04/2023
	M.Engineering : II	18/07/2022	12/11/2022	09/01/2023	06/05/2023
	B.Architecture : II	08/08/2022	04/12/2022	19/12/2022	04/05/2023
	B.Architecture : III IV V	20/06/2022	08/11/2022	19/12/2022	04/05/2023
	M.Architecture:II Architecture II	19/09/2022	07/01/2023	23/01/2023	20/05/2023
	B. Pharmacy: II III	01/08/2022	10/12/2022	02/01/2023	10/05/2023
	B. Pharmacy: IV	15/07/2022	03/12/2022	02/01/2023	10/05/2023
	M. Pharmacy : II ✓	01/08/2022	10/12/2022	26/12/2022	30/06/2023
<b>Commerce &amp; Management</b>					
2	Commerce	20/06/2022	08/11/2022	05/12/2022	04/05/2023
	MBA II (Includes SIP project of 8 week)	01/09/2022	30/01/2023	15/02/2023	26/05/2023
	MCA II	01/09/2022	16/12/2022	02/01/2023	15/04/2023
	BHMCT II III IV	01/09/2022	16/12/2022	02/01/2023	15/04/2023
<b>Humanities</b>					
3	Arts	20/06/2022	08/11/2022	05/12/2022	04/05/2023
	Mental Moral and Social Sciences				
	L.L.B. II	31/10/2022	31/01/2023	06/02/2023	15/05/2023
	L.L.B. III	04/07/2022	08/11/2022	05/12/2023	15/05/2023
	B. A. L.L.B. II	31/10/2022	31/01/2023	06/02/2023	20/05/2023
	B. A. L.L.B. III IV V	04/07/2022	08/11/2022	05/12/2023	15/05/2023
<b>Inter-disciplinary Studies</b>					
4	Education : II	15/09/2022	06/01/2023	17/01/2023	10/05/2023
	Physical Education : II	15/09/2022	06/01/2023	17/01/2023	10/05/2023
	B. Lib. & M. Lib.	15/07/2022	25/11/2022	02/01/2023	04/05/2023
	Fine Arts & Performing Art	20/06/2022	08/11/2022	05/12/2022	04/05/2023
	Journalism PG	15/07/2022	25/11/2022	02/01/2023	04/05/2023

# ACADEMIC CALENDAR 2022-23

## B.PHARM- FIRST TERM

Sr. No	Activity	Date
1.	Commencement of classes	Final Year B Pharm -15/7/22 S.Y.,T.Y B. Pharm- 01/08/22 First Year B Pharm- 27/12/22
<b>S.Y.B. Pharm Sem – III, T.Y. Year Sem- V, Final Year B. Pharm Sem -VII Internal Examinations</b>		
1.	Continuous mode: Academic Activities Assignment	12/09/22-17/9/22
2.	Group Discussion	26/9/22-1/10/22
3.	<b>1<sup>st</sup> -Sessional Examination</b>	<b>Practical</b> 10/10/22-14/10/22
4.		<b>Theory</b> 17/10/22-21/10/22
5.	<b>2<sup>nd</sup> -Sessional Examination (SY &amp; TY)</b>	<b>Practical</b> 31/10/22-04/11/22
6.		<b>Theory</b> 28/11/22-02/12/22
7.	<b>2<sup>nd</sup> -Sessional Examination (Final year )</b>	<b>Practical</b> 31/10/22-04/11/22
8.		<b>Theory</b> 21/11/22-24/11/22
9.	Journal Certification	Final Year -02/12/22 S.Y. & T.Y.- 5/12/22
<b>F.Y. B. Pharm Sem -I Internal Examinations</b>		
1.	Continuous mode: Academic Activities Assignment	17/01/23 to 22/01/23
2.	Open Book Test	07/02/23 to 12/02/23
3.	<b>1<sup>st</sup> -Sessional Examination</b>	<b>Practical</b> 13/02/23 - 17/02/23
		<b>Theory</b> 20/02/23 - 25/02/23
4.	<b>2<sup>nd</sup> -Sessional Examination</b>	<b>Practical</b> 13/03/23 - 17/03/23
		<b>Theory</b> 20/03/23 - 27/03/23
5.	Journal Upload and Checking	Last week March
6.	University online form filling	02/01/23-18/01/23
<b>Holidays Celebration</b>		
7.	Independence Day	15/8/22
8.	Ganesh Chaturthi	31/09/22
9.	Gandhi Jayanti	2/10/22
10.	Dussehra	5/10/22
11.	Diwali vacation	24/11/22 – 26/11/22
<b>Co-curricular Activities</b>		
1.	Conclusion of Classroom Teaching for all years	Final year- 3/12/22 S.Y., T.Y.- 10/12/22 F.Y.- 31/03/23
2.	Conclusion of term	SY, TY, Final Year- /11/22 F.Y.B.Pharm- 31/3/23
Weekly Off		1 <sup>st</sup> & 3 <sup>rd</sup> Saturday , Every Sunday
Student Counseling / Mentoring		Last week of each month
Monthly Syllabus Completion submission		Last week of each month
Staff Meeting		Every Monday, 12:00- 1:00 p.m.

*Kangan*  
Academic Incharge



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Principal





**ACADEMIC CALENDAR 2022-23**

**Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance**

- A] First Term : Semester-I: 27/12/2022 to 25/4/2023  
 Semester-II: 15/5/2023 to 31/08/2023  
 Semester-III: 01/08/2022 to 10/12/2022  
 Semester-IV: 26/12/2022 to 30/06/2023


**B] Working days:**

S. No.	Month	No. of working days
1.	August	23
2.	September	24
3.	October	20
4.	November	24
5.	December	14
<b>Total</b>		<b>105</b>

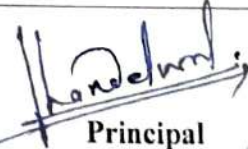
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2.	February	22
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6.	June	24
<b>Total</b>		<b>137</b>

**C] Presentations and Sessional Examination**

S. No.	Sessional Exam.	Theory	Practical
1.	Proposal Presentation (Sem III)	19 <sup>th</sup> September 2022 – 24 <sup>th</sup> September 2022	
2.	Non-University examination of RMB (Sem III)	28 <sup>th</sup> December 2022	-
3.	Journal Club activity (Sem III)	10 <sup>th</sup> October 2022- 18 <sup>th</sup> October 2022	
4.	Progress Research Presentations	20 <sup>th</sup> February 2023 to 23 <sup>rd</sup> February 2023	
5.	Commencement of Sem I	10 <sup>th</sup> January 2023	
6.	First Sessional Exam Sem I	20 <sup>th</sup> February -23 <sup>rd</sup> February 2023	24 <sup>th</sup> February 2023
7.	Second Sessional Exam Sem I	22 <sup>th</sup> March -30 <sup>th</sup> March 2023	31 <sup>st</sup> March 2023
8.	First Sessional Exam Sem II	27 <sup>th</sup> June – 30 <sup>th</sup> June 2023	4 <sup>th</sup> July 2023
9.	Second Sessional Exam Sem II	24 <sup>th</sup> July 2023- 27 <sup>th</sup> July 2023	28 <sup>th</sup> July 2023
10.	Journal Club activity (Sem IV)	21 <sup>st</sup> February 2023 - 25 <sup>th</sup> February 2023	

  
**PG Coordinator**



  
**Principal**



**ACADEMIC CALENDAR 2022-23**

**Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance**

**A] First Term :** Semester-I & III: 01/08/2022 to 10/12/2022

Semester-II& IV: 26/12/2022 to 30/06/2023

**B] Working days:**

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7.	Second Sessional Exam	22 <sup>th</sup> March 2023- 30 <sup>th</sup> March 2023	31 <sup>st</sup> March 2023
8.	Journal Club activity (Sem IV)	21 <sup>st</sup> February 2023 - 25 <sup>th</sup> February 2023	



**Academic Incharge PG**





**Principal**

## TIME TABLE ACADEMIC YEAR 2022-23

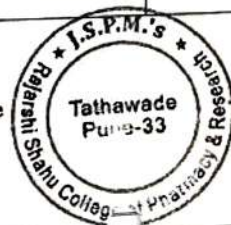
S.Y.B.PHARM. SEMESTER -IV (6 DAY WEEK) w.e.f. 08/02/23 PCI Syllabus Pattern

Day Time	Mon.	Tues.	Wed.	Thu.	Fri.	Sat
8:30 - 12:30 p.m. <b>PRACTICALS</b>	<i>PP-II (MB)</i>	<i>Library hour</i>	<i>Medchem-I (AM)</i>	<i>P'cology-I (NK)</i>	<i>P'cog &amp; Phyto-I (AS)</i>	<i>Remedial classes</i>
A	<i>Medichem-I (AM)</i>	<i>PP-II (MB)</i>	<i>Library hour</i>	<i>Remedial classes</i>	<i>P'cology-I (NK)</i>	<i>P'cog &amp; Phyto-I (AS)</i>
B	<i>Library hour</i>	<i>Medichem-I (AM)</i>	<i>PP-II (MB)</i>	<i>P'cog &amp; Phyto-I (AS)</i>	<i>Remedial classes</i>	<i>P'cology-I (NK)</i>
C	<b>L U N C H                      B R E A K</b>					
12: 30- 1: 00 p.m.	<i>Medi Chem-I (AM)</i>	<i>P'cog &amp; Phyto-I (AS)</i>	<i>P'cology-I (NK)</i>	<i>POC-III (SA)</i>	<i>PP-II (MB)</i>	<i>POC-III (SA)</i>
1:00 - 2:00 p.m.	<i>P'cog &amp; Phyto-I (AS)</i>	<i>POC-III (SA)</i>	<i>POC-III (SA)</i>	<i>P'cog &amp; Phyto-I (AS)</i>	<i>Tutorial hour P'cology-I (NK)</i>	<i>P'cog &amp; Phyto-I (AS)</i>
2:00 - 3:00 p.m.	<i>POC-III (SA)</i>	<i>PP-II (MB)</i>	<i>Tutorial hour POC-III (SA)</i>	<i>P'cology-I (NK)</i>	<i>Medi Chem-I (AM)</i>	<i>PP-II (MB)</i>
3:00 - 4:00 p.m.	<i>P'cology-I (NK)</i>	<i>Medi Chem-I (RP)</i>	<i>PP-II (MB)</i>	<i>Tutorial hour PP-II (MB)</i>	<i>Tutorial hour P'cog &amp; Phyto-I (AS)</i>	<i>Tutorial hour Medi Chem-I (AM)</i>
4:00 - 5:00 p.m						

AS- Mrs. Aarti Supekar	AM - Mrs Archana More	MB- Mrs. Madhavi Bindu	SA- Mrs. Shruti Aber
NK- Mrs. Nilima Kinekar	RP- Dr. Rajendra Patil		

*Shruti*  
Class Teacher

*Pangar*  
Academic Incharge



*Shruti*  
Principal



## TIME TABLE ACADEMIC YEAR 2022-23

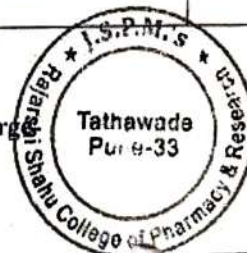
S.Y.B.PHARM. SEMESTER -IV (5 DAY WEEK) w.e.f. 08/02/23 PCI Syllabus Pattern

Day Time	Mon.	Tues.	Wed.	Thu.	Fri.
8:30 -12:30 p.m. <b>PRACTICALS</b> A B C	<i>PP-II (MB)</i>	<i>Library hour</i>	<i>Medichem-I (AM)</i>	<i>P'cology-I (NK)</i>	<i>P'cog &amp; Phyto-I (AS)</i>
	<i>Medichem-I (AM)</i>	<i>PP-II (MB)</i>	<i>Library hour</i>	<i>Remedial classes</i>	<i>P'cology-I (NK)</i>
	<i>Library hour</i>	<i>Medichem-I (AM)</i>	<i>PP-II (MB)</i>	<i>P'cog &amp; Phyto-I (AS)</i>	<i>Remedial classes</i>
12: 30- 1: 00 p.m.	<b>L U N C H                      B R E A K</b>				
1:00 – 2:00 p.m.	Medi Chem-I (AM)	P'cog & Phyto-I (AS)	Tutorial hour <i>P'cology-I (NK)</i>	POC-III (SA)	<i>Remedial classes</i>
2:00 – 3:00 p.m.	P'cog & Phyto-I (AS)	POC-III (SA)	POC-III (SA)	Medi Chem-I (AM)	<i>P'cog &amp; Phyto-I (AS)</i>
3:00 – 4:00 p.m.	Tutorial hour POC-III (SA)	PP-II (MB)	Tutorial hour P'cog & Phyto-I (AS)	<i>P'cology-I (NK)</i>	<i>P'cology-I (NK)</i>
4:00 – 5:00 p.m	<i>P'cology-I (NK)</i>	Tutorial hour Medi Chem-I (RP)	PP-II (MB)	Tutorial hour PP-II (MB)	

AS-Mrs. Aarti Supekar	AM -Mrs Archana More	MB- Mrs. Madhavi Bindu	SA- Mrs. Shruti Aber
NK- Mrs. Nilima Kinekar	RP- Dr. Rajendra Patil		

*Handwritten Signature*  
Class Teacher

*Handwritten Signature*  
Academic Incharge



*Handwritten Signature*  
Principal

**Academic calendar displayed on notice board**



**ACADEMIC CALENDAR 2022-23**

**ACADEMIC CALENDAR 2022-23**

Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance

Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance

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Semester II & IV: 26/12/2022 to 30/06/2023

B) Working days:

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1.	August	23
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3.	October	20
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<b>Total</b>		<b>105</b>

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<b>Total</b>		<b>137</b>

C) Presentations and Seasonal Examination

S. No.	Seasonal Exam.	Theory	Practical
1.	Proposal Presentation (Sem III)	19 <sup>th</sup> September 2022 - 24 <sup>th</sup> September 2022	
2.	Non University examination of RMB (Sem III)	28 <sup>th</sup> December 2022	
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7.	Second Seasonal Exam	22 <sup>nd</sup> March 2023 - 30 <sup>th</sup> March 2023	31 <sup>st</sup> March 2023
8.	Journal Club activity (Sem IV)	21 <sup>st</sup> February 2023 - 25 <sup>th</sup> February 2023	

Academic Incharge PG



Principal

**ACADEMIC CALENDAR 2022-23**

Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance

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Academic Incharge PG



Principal

IN.P.M.'s Rajarshi Shahu College of Pharmacy & Research, Turbhe, Pune-41

**Savitribai Phule Pune University**  
(Formerly University of Pune)

**Savitribai Phule Pune University**  
(Formerly University of Pune)

Circular No. 29 of 2023

Dates of Commencement and Conclusion of terms for the Academic Year 2022-23 for University Department / Affiliated Colleges / Recognized Institutions.

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of University Courses, under various faculties, for the academic year 2022-23 shall be as under.

Sr. No.	Name of the Course - Faculty & Year	2022 - 2023			
		First Term		Second Term	
		Commencement	Conclusion	Commencement	Conclusion
1	Science & Technology				
	B.Pharmacy : I	17/12/2022	25/04/2023	15/05/2023	31/08/2023
	M.Pharmacy : I	17/12/2022	25/04/2023	15/05/2023	31/08/2023
2	Interdisciplinary Studies				
	M.S.W.	11/07/2022	20/11/2022	04/01/2023	15/05/2023
3	Commerce & Management				
	M.B.A./M.C.A.: I	01/11/2022	03/03/2023	05/04/2023	07/07/2023
	M.B.A. : II	01/09/2022	28/01/2023	05/04/2023	07/07/2023
	M.C.A. : II	01/09/2022	16/11/2022	05/04/2023	07/07/2023

NOTE:

1. In case, the Principal of the Affiliated Colleges require to give additional holiday in exceptional circumstances, he/she may do so by compensating the same by keeping the College working on Sunday.

Ref. No. PGN/1164  
Date: 06/03/2023

Deputy Registrar  
(P.G. Admissions)

Copys to: for information and necessary action

- The Members of the Management Council.
- The Deans of Faculties.
- The Registrar, Savitribai Phule Pune University, Pune.
- The Director, Examinations & Evaluation, Savitribai Phule Pune University, Pune.
- The Heads of all University Departments.
- The Principals of all Affiliated Colleges.
- The Directors of all Recognized Institutions.
- The Heads of all the Administrative Sections of the University Office.
- Asst. Registrar, office of the Hon. Vice-Chancellor, Savitribai Phule Pune University
- Asst. Registrar, office of the Hon. Pro-Vice-Chancellor, Savitribai Phule Pune University

Circular No. 29 of 2023

Important Notification

Dates of Commencement and Conclusion of terms for the Academic Year 2022-23 for Affiliated Colleges / Recognized Institutions.

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of University Courses, under various faculties, for the academic year 2022-23 shall be as under.

Sr. No.	Name of the Course - Faculty & Year	2022 - 2023			
		First Term		Second Term	
		Commencement	Conclusion	Commencement	Conclusion
1	Science & Technology				
	B.Pharmacy : I	17/12/2022	25/04/2023	15/05/2023	31/08/2023
	M.Pharmacy : I	17/12/2022	25/04/2023	15/05/2023	31/08/2023
2	Interdisciplinary Studies				
	M.S.W.	11/07/2022	20/11/2022	04/01/2023	15/05/2023
3	Commerce & Management				
	M.B.A./M.C.A.: I	01/11/2022	03/03/2023	05/04/2023	07/07/2023
	M.B.A. : II	01/09/2022	28/01/2023	05/04/2023	07/07/2023
	M.C.A. : II	01/09/2022	16/11/2022	05/04/2023	07/07/2023

## Academic calendar (UG) on website

The screenshot shows a web browser displaying the academic calendar for B.Pharm - First Term. The website has a dark red header with navigation links: HOME, ABOUT, ADMISSION, ACADEMICS, EXAMINATION, PLACEMENTS, CAMPUS-LIFE, COMMITTEES, NAAC, IQAC, NIRF, and a yellow button for ADMISSION ENQUIRY. Below the header is a CONTACT section. The main content area displays a PDF document titled "1701931092Academic Calendar 2022-23.pdf". The document content includes:

**ACADEMIC CALENDAR 2022-23**  
**B.PHARM- FIRST TERM**

Sr. No	Activity	Date
1.	Commencement of classes	Final Year B Pharm -15/7/22 S.Y.,T.Y B. Pharm- 01/08/22 First Year B Pharm- 27/12/22
<b>S.Y.B. Pharm Sem – III, T.Y. Year Sem- V, Final Year B. Pharm Sem -VII Internal Examinations</b>		
1.	Continuous mode: Academic Activities Assignment	12/09/22-17/9/22
2.	Group Discussion	26/9/22-1/10/22
3.	1 <sup>st</sup> -Sessional Examination	Practical 10/10/22-14/10/22 Theory 17/10/22-21/10/22
4.		
5.	2 <sup>nd</sup> -Sessional Examination (SY & TY)	Practical 31/10/22-04/11/22 Theory 28/11/22-02/12/22
6.		
7.	2 <sup>nd</sup> -Sessional Examination (Final year)	Practical 31/10/22-04/11/22 Theory 21/11/22-24/11/22
8.		

## Academic calendar (PG) on website

The screenshot shows a web browser displaying the academic calendar for PG. The website has a dark red header with navigation links: HOME, ABOUT, ADMISSION, ACADEMICS, EXAMINATION, PLACEMENTS, CAMPUS-LIFE, COMMITTEES, NAAC, IQAC, NIRF, and a yellow button for ADMISSION ENQUIRY. Below the header is a CONTACT section. The main content area displays a PDF document titled "1694499707M.Pharm planner Timetable 2022-23...". The document content includes:

J.S.P.M.'s Rajarshi Shahu College of Pharmacy & Research, Tathawade, Pune-33

**ACADEMIC CALENDAR 2022-23**  
**Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance**

A) First Term : Semester-I & III: 01/08/2022 to 10/12/2022  
Semester-II& IV: 26/12/2022 to 30/06/2023

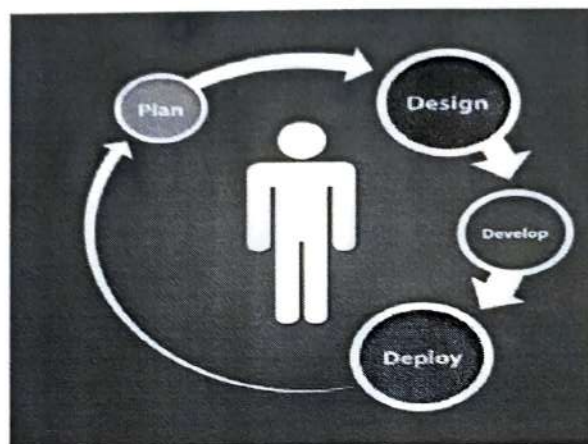
B) Working days:

S. No.	Month	No. of working days
1.	August	23
2.	September	24

S. No.	Month	No. of working days
1.	January	23
2.	February	22
3.	March	23



# **COURSE FILE**



**Course Code: BP 403T &BP407 P**

**Course Name: Physical Pharmaceutics II**

**Semester –IV**

**2022-2023**

**Instructor:Prof. Madhavi S. Bindu**

Department of Pharmaceutics,

J.S.P.M's Rajarshi Shahu College of Pharmacy & Research,

Tathawade, Pune-33

**Rajarshi Shahu College of Pharmacy & Research, Pune**  
Teaching Plan

Academic Year: 2022-23/ PCI System

<b>Subject:-Physical Pharmaceutics II [BP407 P]</b>	<b>Practical: 4hrs / week</b>
<b>CLASS:- Second Year B.Pharm</b>	<b>Examination scheme: University Exam : 35 Marks</b>
<b>Name of Faculty: Mrs. Madhavi S. Bindu</b>	<b>Continuous Assessment : 15Marks</b>

Pract. No.	Description	Batch	Planned Dates	Actual Dates	Ref. used	Content Delivery Methods/ ICT Tools used	Course Outcomes
1.	Introduction	A	13/2/23	13/2/23			
		B	14/2/23	14/2/23			
		C	8/2/23	8/2/23			
2.	Determination of particle size, particle size distribution using sieving method	A	13/2/23	13/2/23	R1, R2,R3		CO1. Determine the particle size and size distribution by microscopy & sieve analysis
		B	14/2/23	14/2/23			
		C	15/2/23	15/2/23			
3.	Determination of viscosity of liquid using Ostwald's viscometer	A	20/2/23	20/2/23	R1, R2,R3		CO2. Calculate viscosity of liquids and understand the working of Brookfield
		B	21/2/23	21/2/23			



	using Brookfield viscometer	B	21/3/23	21/3/23	R2,R3		liquids and understand the working of Brookfield viscometer.	
		C	24/3/23	24/3/23				
9.	Determination of reaction rate constant first order	A	27/3/23	27/3/23	R1, R2,R3		CO4- Determine the order of reaction and calculate the shelf life of the product	
		B	28/3/23	28/3/23				
		C	29/3/23	29/3/23				
10	Determination of reaction rate constant second order	A	10/4/23	10/4/23	R1, R2,R3		CO4- Determine the order of reaction and calculate the shelf life of the product	
		B	11/4/23	11/4/23				
		C	12/4/23	12/4/23				
11	Accelerated stability studies	A	17/4/23	17/4/23	R1, R2,R3		CO4- Determine the order of reaction and calculate the shelf life of the product	
		B	18/4/23	18/4/23				
		C	19/4/23	19/4/23				
12	Determination of best product amongst number of products	A	17/4/23	17/4/23	R1, R2,R3		CO5.-Calculate the cloud point and Krafft point of the surfactant and understand the importance in the formulation and stability of emulsions	
		B	18/4/23	18/4/23				
		C	19/4/23	19/4/23				
13	Determination of Cloud point and Krafft point of given surfactant..	A	24/4/23	24/4/23	R1, R2,R3		CO6. Formulate stable colloids.	
		B	25/4/23	25/4/23				
		C	26/4/23	26/4/23				
14	Determination of effect of salts on stability of hydrophobic sols	A	24/4/23	24/4/23	R1, R2,R3			
		B	25/4/23	25/4/23				
		C	26/4/23	26/4/23				

15	Determination of particle size, particle size distribution using Microscopic method	A	8/5/23	8/5/23	R1, R2,R3		CO1. Determine the particle size and size distribution by microscopy & sieve analysis
		B	9/5/23	9/5/23			
		C	10/5/23	10/5/23			
16	Determination of composition of binary liquid mixture by viscosity method.	A	15/5/23	15/5/23	R1, R2,R3		CO2. Calculate viscosity of liquids and understand the working of Brookfield viscometer.
		B	16/5/23	16/5/23			
		C	17/5/23	17/5/23			

**Reference Books :**


**R1.** Laboratory Manual of Physical Pharmaceutics, C.V.S. Subramanyam, J.Thimma settee

**R2.** A practical book of Physical Pharmaceutics, Sudip Das, Dr. Subhrajit mantry. Nirali Prakashan

**R3.** Physical Pharmacy by Alfred Martin

  
Subject Teacher  
M.S. Bindu

  
Academic Incharge

  
Principal  
Dr. K.R. Khandelwal



**JSPM's Rajarshi Shahu College of Pharmacy & Research, Pune**  
**Teaching Plan**  
**Academic Year: 2022-2023 /Credit and Grading Based Semester System**

<b>Subject:- Physical Pharmaceutics–II Theory [BP403T]</b>	<b>Teaching scheme</b> : Lectures : 3 hrs /week
	Tutorial : 1 hr /week
<b>Class / Semester:- Second Year B.Pharm/ Sem IV</b>	Practical : 4 hrs / week
<b>Name of Faculty: Mrs. Madhavi Bindu</b>	<b>Examination scheme</b> : University Exam : 75 Marks
	Internal Exam : 25 Marks

Lecture No.	Description	Planned Dates	Actual Dates	Ref. used	Content Delivery Methods/ ICT Tools used	Course Outcomes (Students will be able to)
<b>Unit I: Topic- Colloidal Dispersions [7 hours]</b>						
1.	Classification of dispersed system and their general characteristics.	8/2/23	8/2/23	T1,T2,T3,T4, T5	Powerpoint presentation, Chalk and Talk	CO1- . Understand the importance of electrical double layer in formulating stable colloidal system and the properties of colloids and its actions.
2.	Size and shape of colloidal particles	10/2/23	10/2/23	T1,T2,T3,T4, T5	Powerpoint presentation, Chalk and Talk	
3.	Classification of colloids	11/2/23	11/2/23	T1,T2,T3,T4, R1	Powerpoint presentation, Chalk and Talk	
4.	Comparative account of their general properties.	13/2/23	13/2/23	T1,T2,T3,T4, R1,T5	Powerpoint presentation, Chalk and Talk	
5.	Optical, kinetic & electrical properties	14/2/23	14/2/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
6.	Effect of electrolytes	15/2/23	15/2/23	T2,T3,T4,T5, R1	Powerpoint presentation, Chalk and Talk	
7.	Coacervation , peptization and protective action.	16/2/23	16/2/23	T2,T3,T4,T5, R1	Powerpoint presentation, Chalk and Talk	
<b>Unit II :Topic -Rheology [10 hours]</b>						
8.	Introduction, Importance of Rheology, Newton's Law	18/2/23	18/2/23	T1,T2,T4,T5, R1	Powerpoint presentation, Chalk and Talk	CO2- Understand the different types of flow in order to identify and choose suitable flow characteristics for the formulation and calculate viscosity of
9.	Types of flow	18/2/23	18/2/23	T1,T2,T4,T5, R1	Powerpoint presentation, Chalk and Talk	
10.	Types of flow	21/2/23	21/2/23	T1,T2,T4,T5,	Powerpoint presentation,	

				R1	Chalk and Talk	
1.	Types of flow	22/2/23	22/2/23	R1, T2, T4, T5	Powerpoint presentation, Chalk and Talk	
2.	Types of flow	24/2/23	24/2/23	R1, T2, T4, T5	Powerpoint presentation, Chalk and Talk	
13.	Antithixotropy, Determination of Viscosity	25/2/23	25/2/23	R1, T2, T4, T5	Powerpoint presentation, Chalk and Talk	
14.	Determination of Viscosity	28/2/23	28/2/23	T1, T2, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
15.	Deformation of solids	1/3/23	1/3/23	R1, T2, T4, T5	Powerpoint presentation, Chalk and Talk	
16.	Deformation of solids	4/3/23	4/3/23	T1, T2, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
17.	Deformation of solids	8/3/23	8/3/23	T1, T2, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
<b>Unit III : Topic – Coarse dispersion [10 hours]</b>						
18.	Suspension	10/3/23	10/3/23	T1, T2, T3, T4, T5, R1,	Chalk and Talk	<b>CO3- Relate various physicochemical properties of drug and excipients molecules in designing the dosage forms</b>
19.	Interfacial properties of suspended particles	11/3/23	11/3/23	T1, T2, T3, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
20.	Settling in suspensions	18/3/23	18/3/23	T1, T2, T3, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
21.	Formulation of flocculated and deflocculated suspensions	18/3/23	18/3/23	T1, T2, T3, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
22.	Emulsions and theories of microemulsion	20/3/23	20/3/23	T1, T2, T3, T4, T5, R1, R2	Powerpoint presentation, Chalk and Talk	
23.	Microemulsion and multiple emulsions	21/3/23	21/3/23	T1, T2, T3, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
24.	Stability of emulsions	23/3/23	23/3/23	T1, T2, T3, T4, T5, R1	Powerpoint presentation, Chalk and Talk	
25.	Preservation of emulsions	24/3/23	24/3/23			
26.	Rheological properties of emulsions	26/3/23	26/3/23			



27.	Emulsion formulation by HLB method	28/3/23	28/3/23			
<b>UNIT-IV : Topic : Micromeretics [08 hours]</b>						
28.	Particle size and distribution, Mean particle size	29/3/23	29/3/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	CO4- Evaluate particle size, particle size distribution & derived properties of powder.
29.	Number and weight distribution , particle number	1/4/23	1/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
30.	Methods for determining particle size	4/4/23	4/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
31.	Counting and separation method, Particle shape	5/4/23	5/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
32.	Specific surface, methods for determining surface area	7/4/23	7/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
33.	Permeability and adsorption.	8/4/23	8/4/23	T1,T2,T4, T6,R2	Powerpoint presentation, Chalk and Talk	
34.	Derived properties of powder and porosity	11/4/23	11/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
35.	Packing arrangement, densities, bulkiness and flow properties	12/4/23	12/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
<b>UNIT-V :Topic - Drug Stability [10 Hours]</b>						
36.	Importance, need and classification of stability	15/4/23	15/4/23	T1,T2,T3,T4, T5,R1	Chalk and Talk	CO5- Evaluate the kinetics of drug system and predict the shelf life of the product, storage and its stability
37.	Degradation pathways -physical	15/4/23	15/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
38.	Physical degradation	18/4/23	18/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
39.	Chemical Degradation	19/4/23	19/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	
40.	Chemical Degradation and prevention from hydrolysis	21/4/23	21/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk	

41.	Chemical Degradation and prevention from oxidation	23/4/23	23/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk
42.	Microbial Degradation	25/4/23	25/4/23	T1,T2,T3,T4, T5,R1	Powerpoint presentation, Chalk and Talk
43.	Therapeutic degradation and kinetic stability	26/4/23	26/4/23	T1,T2,T3,T4, T5,R1	Ppt, chalk & talk
44.	Rate & order of reaction	28/4/23	28/4/23	T1,T2,T3,T4, T5,R1	ppt, chalk & talk
45.	Rate & order of reaction	29/4/23	29/4/23	T1,T2,T3,T4, T5,R1	ppt, chalk & talk
46.	Dynamic Image Analysis (CBS)	8/5/23	8/5/23	web	Ppt, chalk & talk
Total Number of Tutorial Planned- 15					

#### Text Books:

T1 : Tutorial Pharmacy by Cooper and Gunn.

T2 : Physical Pharmaceutics by C.V.S. Subramanyam

T3: Text book of Physical Pharmacy, by Gaurav Jain & Roop K. Khar

T4: Text book of Physical Pharmaceutics II by Dr. S. Sharma, Dr. J. Singh Dua, Mr. R.Suryawanshi. PeeVee Publication

#### Reference Books :


R1: Physical Pharmacy by Alfred Martin

R2 : Liberman H.A, Lachman C., Pharmaceutical Dosage forms, Tablets, Volume-1 to 3, MarcelDekkar Inc.


R3: Stocklosam J. Pharmaceutical Calculations, Lea &Febiger, Philadelphia.

R4: Liberman H.A, Lachman C, Pharmaceutical Dosage forms. Disperse systems, volume 1, 2, 3. Marcel Dekkar Inc.

R5:Physical Pharmaceutics by Ramasamy C, and Manavalan R.

  
Mrs. Madhavi Bindu  
(Subject Faculty)

  
Ms. Priya Raigari  
(Academic In-charge)

  
Dr. K.R. Khandelwal  
(Principal)

## MONTHLY SYLLABUS COMPLETION REPORT

[2022-23]

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SEMESTER – I/II/III/IV/V/VI/VII/VIII

Class: S. T. B. Pharm Subject: PP II (Practical)Month: February Lecturer: M. S. Bindu

Pract.No.	Experiment / Practical covered A,B & C Batch	No of hrs as per Syllabus	No of hrs actual conducted
1.	Introduction to Equipments used	4 hrs each	4 hrs each
2.	Determination of Particle size		
3.	Determination of Different densities		
4.	Determination of viscosity		
5.	Determination of angle of repose (A & B Batch)	4	4
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			

Remark of Academic Incharge:

Satisfactory

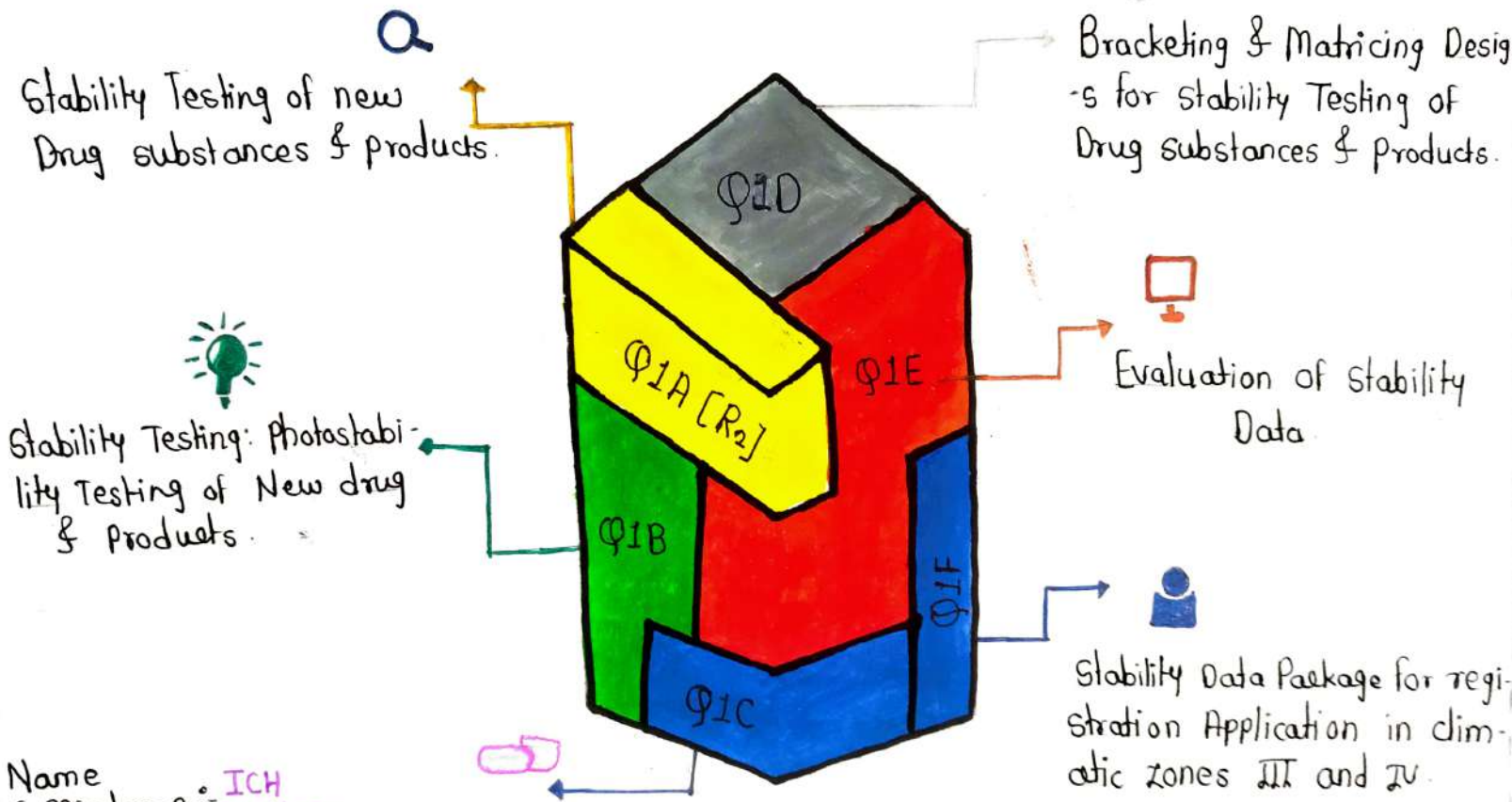
Signature of Lecturer

Signature of Academic Incharge

Date: 28/2/23



# ICH Guidelines



Name of Mindmap :- ICH guidelines  
Thawal Namrata Baban  
S.Y. B. Pharm 2022-23  
Roll no - 61

Stability Testing of New Dosage forms.

Stability Data Package for registration Application in climatic zones III and IV.