

1.1.2 - The institution adheres to the academic calendar including for the conduct of Continuous Internal Evaluation (CIE)

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**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.
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DTE CODE :- PH6367

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

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

ACADEMIC PROGRAM COMMITTEE B. PHARM. 2023-24

The Academic Program Committee for B. Pharm course as per PCI syllabus was constituted on 5/7/23. The composition of the Program Committee for Academic Year 2023-24 nominated by Principal Dr. K.R. Khandelwal is as follows:

COMPOSITION:

Sr. No.	Designation	Name of the Member
1.	Principal	Dr.K.R.Khandelwal
2.	Chairperson	Prof. Priya Rodge- Rangari
3.	Faculty Member-Pharmaceutics Department	Prof. Nilima Chaudhari
4.	Faculty Member-Pharmaceutical Chemistry Department	Dr. Rajendra Patil
5.	Faculty Member-Pharmacognosy Department	Prof. Anil Tankar
6.	Faculty Member-Pharmacology Department	Dr. Trupti Deshpande
7.	Student F. Y. B. Pharm A division	Miss. Madhura Deshmukh
8.	Student F. Y. B. Pharm B division	Mr. Atul Suryavanshi
9.	Student S.Y.B.Pharm A division	Miss. Joyce Cruz
10.	Student S.Y. B Pharm B division	Mr. Nikhil Patil
11.	Student T.Y. B. Pharm	Mr. Arya Shivam
12.	Student Final Year B. Pharm	Miss Sanskriti Kate

DUTIES OF THE PROGRAM COMMITTEE:

1. Periodically reviewing the progress of the classes.
2. Discussing the problems concerning curriculum, syllabus and the conduct of classes.



3. Discussing with the course teachers on the nature and scope of assessment for the course and the same shall be announced to the students at the beginning of respective semesters.
4. Communicating its recommendation to the Head of the institution on academic matters.
5. Monitor the teaching methodology and make suggestions for improvement.
6. Check faculty adherence to Academic Calendar & teaching plan.
7. To encourage faculty members on the use of modern teaching aids/ ICT tools to enhance students learning.
8. Monitor use of student centered approaches such as participative learning, experiential learning and collaborative learning in teaching learning process.
9. Monitor timely completion of syllabus.
10. Implement quality policies framed by IQAC in teaching learning process.
11. Analyze student's feedback and propose corrective actions and suggestions related to curriculum design and teacher quality.
12. To get feedback about inclusion of various enrichment program and value added courses required for holistic development of students.
13. To monitor efforts taken by faculty for improving student progression rate.



A handwritten signature in black ink, appearing to read "H. D. Deshpande", written over a horizontal line.

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

Savitribai Phule Pune University



Circular No. 92 of 2023 Dates of Commencement and Conclusion of the Academic Year 2023-24 for Affiliated Colleges and Institutes.

It is hereby informed that, the dates of commencement and conclusion of the First and Second term of Courses, under the faculty of **Science & Technology**, for the academic year 2023-24 shall be as under:

Term – I

Sr. No.	Course, Programme, Year	Commencement	Conclusion	Tentative Commencement Exam	Vacation	
					From	To
1	Science	20/06/2023	31/10/2023	01/11/2023	01/11/2023	21/11/2023
2	B.E.: II	10/08/2023	04/12/2023	06/12/2023	07/12/2023	25/12/2023
3	B.E.: III IV	10/07/2023	04/11/2023	07/11/2023	11/11/2023	02/12/2023
4	M.E.: II	10/08/2023	04/12/2023	06/12/2023	07/12/2023	25/12/2023
5	B.Arch.: II	14/08/2023	04/12/2023	05/12/2023	05/12/2023	18/12/2023
6	B.Arch.: III IV V	12/07/2023	04/11/2023	28/11/2023	20/11/2023	10/12/2023
7	M.Arch.:II	04/09/2023	06/01/2024	08/01/2024	08/01/2024	22/01/2024
8	B. Pharm: II	04/09/2023	30/12/2023	05/01/2024	17/01/2024	06/02/2024
9	B.Pharm:III,IV	12/07/2023	04/11/2023	28/11/2023	20/11/2023	10/12/2023
10	M. Pharm: II	04/09/2023	30/12/2023	05/01/2024	17/01/2024	06/02/2024

Term – II

Sr. No.	Course, Programme, Year	Commencement	Conclusion	Tentative Commencement Exam	Vacation	
					From	To
1	Science	22/11/2023	30/04/2024	01/05/2024	02/05/2024	15/06/2024
2	B.E.: II	01/01/2024	30/04/2024	06/05/2024	04/05/2024	11/06/2024
3	B.E.: III IV	11/12/2023	30/04/2024	06/05/2024	04/05/2024	11/06/2024
4	M.E.: II	01/01/2024	30/04/2024	06/05/2024	04/05/2024	11/06/2024
5	B.Arch.: II	26/12/2023	27/04/2024	29/04/2024	06/05/2024	16/06/2024
6	B.Arch.: III IV V	26/12/2023	04/05/2024	13/05/2024	16/05/2024	23/06/2024
7	M.Arch.:II	23/01/2024	20/05/2024	23/05/2024	24/05/2024	30/06/2024
8	B. Pharm: II	15/01/2024	30/05/2024	05/06/2024	01/06/2024	15/07/2024
9	B.Pharm:III,IV	26/12/2023	04/05/2024	13/05/2024	16/05/2024	23/06/2024
10	M. Pharm: II	07/02/2024	05/06/2024	10/06/2024	06/06/2024	15/07/2024

NOTE :

- The dates of commencement and conclusion of the all those courses whose admission is made under Common Entrance Test (CET) conducted by Government of Maharashtra / Savitribai Phule Pune University will be declared separately.
- In case, the Head of the college requires to give additional holidays in exceptional circumstances, he/she may do so by compensating the same by keeping the college working on holidays.

Ref. No. PGS/2453
Date: 30/05/2023


Deputy Registrar
(P.G.Admission)

Academic calendar B. Pharm

ACADEMIC CALENDAR 2023-24

B.PHARM- FIRST TERM

Sr. No	Activity	Date
1.	Commencement of classes	T.Y, Final Year B Pharm: 12/7/23 S.Y.B Pharm-04/9/23 First Year B Pharm- 29/8/23
T.Y. Year Sem- V, Final Year B. Pharm Sem -VII Internal Examinations		
1.	Continuous mode: Academic Activities Assignment	7/8/23 -12/8/23
2.	Group Discussion	21/8/23 -26/8/23
3.	1 st -Sessional Examination	Practical 4/9/23-9/9/23
4.		Theory 11/9/23 -15/9/23
5.	2 nd -Sessional Examination (TY & Final year)	Practical 16/10/23-20/10/23
6.		Theory 23/10/23-28/10/23
7.	Improvement Sessional Examination	Theory 30/10/23 -3/11/23
8.		
9.	Journal Certification	Final Year - S.Y. & T.Y.-
F.Y. B. Pharm Sem -I & SY B Pharm Sem- III Internal Examinations		
1.	Continuous mode: Academic Activities Assignment	25/9/23-30/9/23 (FY & SY)
2.	Open Book Test	3/1/23-6/10/23
3.	1 st -Sessional Examination	Practical 30/10/23-3/11/23
		Theory 6/11/23-9/11/23
4.	2 nd -Sessional Examination	Practical 4/12/23 -9/12/23
		Theory 11/12/23 -15/12/23
5.	Improvement Sessional Examination theory	18/12/23-21/12/23
6.	Journal Certification	23/12/23
Holidays Celebration		
7.	Independence Day	15/8/23
8.	Ganesh Chaturthi	19/09/23
9.	Gandhi Jayanti	2/10/23
10.	Dussehra	24/10/23
11.	Diwali vacation	12/11/23 – 15/11/23
12.	Christmas	25/12/23
Co-curricular Activities		
1.	Conclusion of Classroom Teaching for all years	T.Y& Final year- 22/10/23 F.Y & S.Y. - 10/12/23
2.	Conclusion of term	SY, TY, Final Year- 10/12/23 F.Y.B.Pharm- 25/4/23
Weekly Off		1 st & 3 rd 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.


Academic Incharge




Principal

ACADEMIC CALENDAR 2023-24

B.PHARM- SECOND TERM

Sr. No	Activity	Date
1.	Commencement of classes	26/12/23(T.Y., Final Year) 05/02/24 (S.Y., F.Y. B Pharm)
T.Y. Year Sem- VI, Final Year B. Pharm Sem -VIII Internal Examinations		
3.	Continuous mode: Academic Activities Assignment	05/02/24- 10/02/24
4.	Group Discussion	20/02/24 – 24/02/24
5.	1st -Sessional Examination	Practical 05/03/24 – 09/04/24
6.		Theory 11/03/24 –18/03/24
7.	2nd -Sessional Examination	Practical 15/04/24- 19/04/24
8.		Theory 22/04/24 – 27/04/24
F.Y. B.Pharm Sem -II and S.Y.B. Pharm Sem – IV Internal Examinations		
13.	Continuous mode: Academic Activities Assignment	20/02/24-24/02/24
14.	Open Book test/Group Discussion	04/03/24-09/03/24
15.	1st -Sessional Examination	Practical 18/03/24 –23/03/24
16.		Theory 25/03/24- 30/03/24
17.	2nd -Sessional Examination	Practical 29/04/24-03/05/24
		Theory 07/05/24-11/05/24
18.	Improvement Sessional Examination theory	29/4/24 to 3/05/24
19.	Journal Submission & Certification	04/05/24
Holidays Celebration		
20.	Republic Day	26/01/24
21.	Chatrapati Shivaji Maharaj Jayanti	19/02/24
22.	Mahashivratri	08/03/24
23.	Gudipadwa	09/04/24
24.	Ramzan Id	22/04/24
25.	Dr. B.R. Ambedkar Jayanti	14/04/24
26.	Shree Ramnavami	17/04/24
27.	Maharashtra Day	01/05/24
Co-curricular Activities		
28.	Conclusion of Classroom Teaching for all years	T.Y.& Final year- 21/04/24 F.Y.& S.Y.- 03/05/24
29.	Conclusion of term	04/05/24
Weekly Off		1 st & 3 rd Saturday , Every Sunday
Student Counseling / Mentoring		Last week of each month
Monthly Syllabus Completion submission		Last week of each month
Staff Meeting		Every Monday, 3:00- 4:00 p.m.

P. D. D. D.
Academic Incharge



H. D. D. D.
Principal

Academic calendar M. Pharm

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

ACADEMIC CALENDAR 2023-24

Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance

A) First Term : Semester-I: 13/09/2023 to 06/01/2024

Semester II: 01/02/2024 to 31/05/2024

Semester III: 04/09/2023 to 30/12/2023

Semester-IV: 07/02/2024 to 05/06/2024


B) Working days:

S. No.	Month	No. of working days
1.	September	22
2.	October	22
3.	November	21
4.	December	23
5.	January	05
Total		93


S. No.	Month	No. of working days
1.	February	22
2.	March	25
3.	April	23
4.	May	24
5.	June	04
Total		98

C) Presentations and Sessional Examination

S. No.	Sessional Exam.	Theory	Practical
1.	Proposal Presentation (Semester III)	2 nd November 2023 – 9 th November 2023	
2.	Non-University examination of RMB (Semester III)	23 rd December 2023	-
3.	Journal Club activity (Semester III)	9 th October 2023- 14 th October 2023	
4.	Progress Research Presentations (Semester IV)	20 th February 2024 to 23 rd February 2024	
5.	Commencement of Semester I Semester II	25 th September 2023 1 st February 2024	
6.	First Sessional Exam	2 nd November 2023 – 6 th November 2023	1 st November 2023
7.	Second Sessional Exam	23 rd December 2023-/ 28 th December 2023	22 nd December 2023
8.	Journal Club activity (Semester IV)	4 th March 2024 - 8 th March 2024	
9.	SPPU Examination (tentative) Semester I Semester II	8 th January 2024 3 rd June 2024	


 Academic Incharge
 Dr. Ashlesha Pandit




 Principal
PRINCIPAL
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 Pharmacy & Research
 Tathawade, Pune - 411 033.

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

ACADEMIC CALENDAR 2023-24

Masters in Pharmacy-Pharmaceutics & Pharmaceutical Quality Assurance

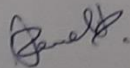
A) Second Term : Semester II: 01/02/2024 to 31/05/2024
Semester-IV: 07/02/2024 to 05/06/2024

B) Working days:

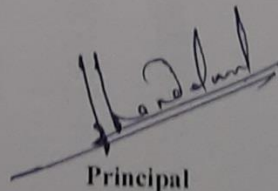
S. No.	Month	No. of working days
1.	February	22
2.	March	25
3.	April	23
4.	May	24
5.	June	04
Total		98

C) Presentations and Sessional Examination

S. No.	Sessional Exam.	Theory	Practical
1.	Commencement of Semester II Semster IV	1 st February 2024- 7 th February 2024	
2.	Journal Club activity (Semester IV)	26 th March 2024 - 29 th March 2024	
3.	Progress Research Presentations (Semester IV)	20 th May 2024 - 23 rd May 2024	
4.	First Sessional Exam	26 th March 2024 – 29 th March 2024	30 th March 2024
5.	Second Sessional Exam	20 th May 2024- 23 rd May 2024	24 th May 2024
6.	SPPU Examination (tentative) Semester II	3 rd June 2024	



Academic Incharge



Principal

Exam Planner

JSPM's
Rajarshi Shahu College of Pharmacy and Research
Tathawade, Pune - 33

F. Y. SEM. - I & S.Y. SEM-III B. PHARM
EXAMINATION PLANNING [2023-2024]
Term-I June 2023 to December 2023

NO	PARTICULAR	SCHEDULE FOR EXAMINATION
1.	Continuous mode: Academic activities Assignment	25/09/2023 TO 30/09/2023
2.	Open Book Test/ Group discussion.	03/10/2023 TO 06/10/2023
3.	1 st -Sessional Examination	Practical 30/10/2023 to 3/11/2023 Theory 06/11/2023 to 09/11/2023
4.	2 nd -Sessional Examination	Practical 04/12/2023 to 09/12/2023 Theory 11/12/2023 to 15/12/2023
5.	Improvement Sessional Examination (Theory)	18/12/2023 to 21/12/2023
6.	University online form filling	Not yet declared
7.	Journal certification	23/12/2023
8.	University Exam	Not yet declared


F.Y. Class Teacher


S.Y. Class Teacher


Exam In-charge


Academic In-charge


Principal


Time table B. Pharm

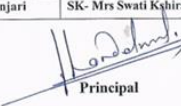
TIME TABLE ACADEMIC YEAR 2023-24
S.Y.B.PHARM. SEMESTER –IV Division A (6 DAY WEEK) w.e.f. 05/02/2024

Time	Day	Mon.	Tues.	Wed.	Thu.	Fri.	Sat
8:30 – 11:30 a.m. PRACTICALS A B C		PP-II (MB)	P'cology-I (PG)	Medichem-I (RP)	Library hour	P'cog & Phyto-I (RC)	Remedial classes
		Medichem-I (AM)	PP-II (MB)	P'cology-I (BG)	Remedial classes	Library hour	P'cog & Phyto-I (RC)
		P'cology-I (PG)	Medichem-I (AM)	PP-II (SK)	P'cog & Phyto-I (RC)	Remedial classes	Library hour
11: 30- 12: 30 p.m.		L U N C H			B R E A K		
12:30 – 1:20 p.m.		Medi Chem-I (RP)	P'cog & Phyto-I (RC)	PP-II (MB)	POC-III (SV)	PP-II (SK)	POC-III (MS)
1:20-2:10 p.m.		P'cog & Phyto-I (RC)	POC-III (MS)	Medi Chem-I (AM)	Tutorial hour P'cog & Phyto-I (RC)	P'cog & Phyto-I (RC)	P'cog & Phyto-I (AS)
2: 20- 3: 10 p.m.		POC-III (MS)	PP-II (MB)	Tutorial hour POC-III (MS)	Tutorial hour PP-II (MB)	Medi Chem-I (AM)	PP-II (SK)
3: 10-4:00 p.m.		P'cology-I (PG)	Tutorial hour Medi Chem-I (AM)	P'cology-I (PG)	P'cology-I (BG)	Tutorial hour P'cology-I (PG)	Medi Chem-I (AM)

AS-Mrs. Aarti Supekar	AM –Mrs Archana More	BG- Mrs Bharati Gawai	MB- Mrs. Madhavi Bindu	MS- Mrs Manjiri Shastri
PG- Mrs Priyanka Ghadage	RC-Dr. Rohini Chaudhari	RP- Dr. Rajendra Patil	SV- Mrs Suvarna Vanjari	SK- Mrs Swati Kshirsagar


 Class Teacher


 Academic Incharge



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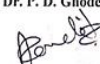
Time table M. Pharm


JSPM's Rajarshi Shahu College of Pharmacy and Research, Tathawade, Pune-33
Masters in Pharmacy 2023-24 (Semester-I)
(Pharmaceutics & Pharmaceutical Quality Assurance) w. e. f. 30/9/2023

Time	Day					
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8.30-9.30	DDS / QCQA (APP) / (PDG)	Practical - 1 Batch A (MPH): Pceutics (APP/UK)	DDS / QMS (APP) / (AS)	DDS / QCQA (APP) / (PDG)	Practical 1 Batch A (MPH): Analysis (AS)	MP / QCQA (APP) / (PDG)
9.30-10.30	RA / PDDT (UK) / (KL)	Batch B (MQA): QA (AS/ PDG)	RA / PDDT (UK) / (KL)	MP / QMS (UK) / (AS)	Batch B (MQA): Analysis (PDG)	MP / QMS (UK) / (AS)
10.30-11.30	MPAT (AS)		MPAT (PDG)	MPAT (PDG)		Journal club
11.30- 12.30 Lunch break			Lunch break			Lunch break
12.30-1.30	MPAT (AS)		MP / QCQA (UK) / (PDG)	DDS / QMS (APP) / (AS)		Journal club
1.30-2.30	Seminar/ Assignment		RA / PDDT (UK) / (KL)	RA / PDDT (UK) / (KL)		Journal club
2.30-3.30	Seminar/ Assignment		Seminar/ Assignment	Seminar/ Assignment		Journal club

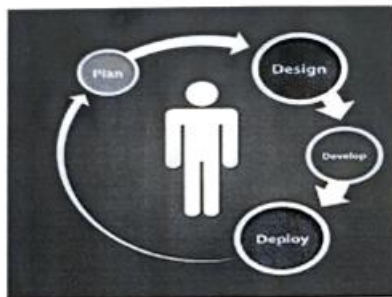
APP - Dr. A. P. Pandit, AS-Dr. A. S. Sayare, PDG- Dr. P. D. Ghode, UK- Dr. Ujjwala Kandeikar, KL-Mr. K. D. Lone


 Dr. P. D. Ghode
 Class Teacher


 Dr. Ashlesha P. Pandit
 PG Coordinator


 Dr. K. R. Khandelwal
 Principal

COURSE FILE



Course Code: BP 403T &BP407 P

Course Name: Physical Pharmaceutics II

Semester –IV

Instructor:Prof. Madhavi S. Bindu

Department of Pharmaceutics,

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

Tathawade, Pune-33

Teaching Plan

J.S.P.M's
Rajarshi Shahu College of Pharmacy & Research, Pune
Teaching Plan
Academic Year: 2023-24 /Semester, Credit and Grading System

Subject: Drug Delivery Systems [MPH102T]	Teaching scheme: Lectures: 4hrs/week (Credits points 04) (Credits hours 04)
Class: First Year M. Pharm (Semester-I)	Examination scheme: I. Internal Assessment : 25 Marks 1. Continuous Mode : 10 Marks 2. Sessional Exams : 15 Marks
Name of Faculty: Dr. Ashlesha P. Pandit	II. End-semester Exams : 75 Marks TOTAL : 100 Marks

Semester- I (Theory)

Lecture No.	Description	Planned Dates	Actual Dates	Ref. used	Content Delivery Methods/ ICT Tools used	Course Outcomes
Topic 1. Sustained Release(SR) and Controlled Release (CR) formulations						
1.	Introduction, basic concepts used in drug delivery	30/9/23	30/9/23	R1, R4	Chalk and Talk, Power point presentation	-
2.	Advantages and disadvantages of SR/ CR formulations	3/10/23	4/10/23	R1, R2, R4, B4, B5	Chalk and Talk	CO1. Design formulation, fabrication and evaluation of sustained, controlled and rate controlled, gastro-retentive, buccal, ocular, transdermal and protein-peptide drug delivery and vaccine delivery systems. CO2. Understand the criteria for selection of drug and polymers for development of delivering system.
3.	Factors influencing SR design: Physicochemical & biological approaches for SR/CR formulation	5/10/23	5/10/23	R1, R2, R4, B4, B5	Chalk and Talk	
4.	Mechanism of Drug Delivery from SR/CR formulation, Fundamentals of kinetics of SR formulations	9/10/23	11/10/23	R1, R2, R4, B4, B5	Chalk and Talk	
5.	Types of SR and CR formulations	4/10/23	4/10/23	R1, R2, J3	Chalk and Talk	
6.	Polymers: introduction, definition, classification, properties, Application of polymers	12/10/23	12/10/23	R2, R4, B1, B2	Chalk and Talk	
7.	Biopolymers in DDS	16/10/23	16/10/23	R2, R4, B1, B2,	Chalk and Talk	

Ashlesha P. Pandit
 Dr. Ashlesha P. Pandit

<p>Recommended Books (R) & Journals (J):</p> <p>R1. Novel Drug Delivery Systems by Y. W. Chien, Marcel Dekker Inc., New York, 1992 R2. Controlled Drug Delivery Systems by Robinson J. B., Lee V. H. L., Marcel Dekker Inc., New York, 1992 R3. Encyclopedia of Controlled Delivery, Editor Edith Mathiowitz, Published by Wiley Interscience Publication R4. Controlled & Novel Drug Delivery by N. K. Jain, CBS Publishers & Distributors, New Delhi, 1997 R5. Controlled Drug Delivery - concepts and advances, by Vyas S. P. and Khar R. K., VallabhPrakashan, New Delhi, First edition 2002. J1. Indian Journal of Pharmaceutical Sciences (IPA) J2. Indian Drugs (IDMA) J3. Journal of Controlled Release (Elsevier Sciences) J4. Drug Development and Industrial Pharmacy (Marcel & Decker)</p> <p>Reference Books (B) and e-Books(E):</p> <p>B1. Polymeric Drug Delivery Systems by Glen S. Kwon B2. Biodegradable polymers as drug delivery systems by Mark Chasin and Robert Langer B3. Aqueous Polymeric Coating Vol-176 by McGinity B4. Targeted & Controlled Drug Delivery by Vyas B5. Advances in Controlled & Novel Drug Delivery by Jain NK B6. Pharmaceutical Coating Technology by Cole B7. Progress in controlled and novel drug delivery system by N. K. Jain B8. Pharmaceutical Dissolution Testing by UmeshBanakar B9. Industrial Pharmacy by Lachman E1. Encyclopedia of Pharmaceutical Technology by James Swarbrick E2. Pharmaceutical Excipients Edited by: Raymond C Rowe, Paul J Sheskey and Sián C Owen E3. Surfactants and Polymers in Drug Delivery by Martin Malmsten</p> <p>Websites:</p> <p>W1: https://www.youtube.com W2: https://www.ich.org/filesadmin/Public_Web_Site/ICH.../Q8.../Q8_R2_Guideline.pdf W3. Research papers published in high impact factor journal</p>

Ashlesha P. Pandit
 Subject Teacher
 Dr. Ashlesha P. Pandit

Ashlesha P. Pandit
 Dr. Ashlesha P. Pandit
 Academic Incharge

Dr. K. R. Khandelwal
 Principal
 Dr. K. R. Khandelwal

Course file

COURSE FILE

Subject	Pharmaceutical Engineering	
Subject code	BP 204T	
Class	Second Year B. Pharm	
Semester	III	
Prepared by	Dr. Ujjawala Kandekar & Mr. Lone K. D	<i>(2/10/21)</i> <i>KD</i>
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