



Jagdamba Education Society's

S.N.D. COLLEGE OF PHARMACY

BABHULGAON, Tal. Yeola - 423 401, Dist. Nashik (Maharashtra)
NAAC Accredited with 'B' Grade

- Approved by PCI New Delhi
- AICTE New Delhi
- DTE, Govt. of Maharashtra, Mumbai
- Affiliated to Savitribai Phule Pune University, Pune
- Affiliated to MSBTE, Mumbai
- E-mail: sndcollegeofpharmacy@rediffmail.com
- Ph.No. : (02559) 225041 / 42
- Fax : (02559) 225042
- Web : www.sndpharmacy.com

Hon. Shri. Narendra B. Darade

President, Jagdamba Education Society's, Yeola
MLC, Govt. of Maharashtra

Outward No. SNDCOP/B.PH./M.PH./D.PH./2022 - 2023 /

Hon. Shri. Kishor B. Darade

Director, Jagdamba Education Society's, Yeola
MLC, Govt. of Maharashtra

Date : 12/09/2022

Mechanism of Internal Assessment

The process for continuous internal evaluation is as given below.

Theory Sessional Examination

- ❖ IQAC conducts meeting and finalize the academic plan and teaching plan
↓
- ❖ College examination committee prepares the tentative schedule for examination
↓
- ❖ Schedule of sessional examinations are displayed on the notice board
↓
- ❖ Invigilation schedule is communicated to all the staff via notice and circulars
↓
- ❖ Sessional question paper is prepared as per the guidelines of the university
↓
- ❖ Evaluation of sessional exam papers within fixed period of time (07 days)
↓
- ❖ Sessional exam marks are communicated to students

Practical Examination

- ❖ IQAC conducts meeting and finalize the academic plan and teaching plan



- ❖ College examination committee prepares the tentative schedule for examination



- ❖ Schedule of sessional examinations are displayed on the notice board



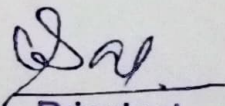
- ❖ Subject Expert conduct the Practical Sessional Examination batch wise as per the schedule



- ❖ Evaluation of practical papers is done by the subject expert themselves and valued answer sheets are submitted to the exam department within 2 days

After conducting theory and practical examinations the calculated average marks of respective subjects are verified by Principal and submitted to University through online




Principal
S. N. D. College of Pharmacy
Babhulgaon, Tal. Yeola (Nasik)

Scheme for awarding Internal assessment marks in continuous mode :

SAYTRIBALPHULE PUNE UNIVERSITY

FACULTY OF SCIENCE AND TECHNOLOGY



RULES & SYLLABUS

**FIRST YEAR BACHELOR OF PHARMACY (B. Pharm.) COURSE –
2019 pattern (EFFECTIVE FROM ACADEMIC YEAR 2019-2020)**

11.2 Internal assessment: Continuous mode

The marks allocated for Continuous mode of Internal Assessment shall be awarded as per the scheme given below.

Table-XI: Scheme for awarding internal assessment: Continuous mode

Theory		
Criteria	Maximum Marks	
Attendance (Refer Table – XII)	4	2
Academic activities (Average of any 2 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	4	03
Student – Teacher interaction	2	
Total	10	5
Practical		
Attendance (Refer Table – XII)	2	
Based on Practical Records, Regular viva voce, etc.	3	
Total	5	

Table- XII: Guidelines for the allotment of marks for attendance

Percentage of Attendance	Theory	Practical
95 – 100	4	2
90 – 94	3	1.5
85 – 89	2	1
80 – 84	1	0.5
Less than 80	0	0

11.2.1. Sessional Exams

Two Sessional exams shall be conducted for each theory / practical course as per the schedule fixed by the college(s). The scheme of question paper for theory and practical Sessional examinations is given below. The average marks of two Sessional exams shall be computed for internal assessment as per the requirements given in tables – X. Sessional exam shall be conducted for 30 marks for theory and shall be computed for 15 marks. Similarly Sessional exam for practical shall be conducted for 40 marks and shall be computed for 10 marks. The duration for the conduct of the exam is as below

Exam Type	Marks allotted	Duration
Theory	30	1.5 Hr
Practical	40	04 Hr

Question paper pattern for theory Sessional

For subjects having University exams

I. Objective Type Questions (Answer 05 out of 7)	= 5 x 2 = 10
II. Long Answers (Answer 1 out of 2)	= 1 x 10 = 10
III. Short Answers (Answer 2 out of 3)	= 2 x 5 = 10
Total	30 marks

For subjects having Non University Examination

I. Long Answers (Answer 1 out of 2)	= 1 x 10 = 10
II. Short Answers (Answer 4 out of 6)	= 4 x 5 = 20
Total	30 marks

Question paper pattern for practical sessional examinations

I. Synopsis	= 10
II. Experiments	= 25
III. Viva voce	= 05
Total	40 marks

Sessional Theory answer sheet issued/submission Record 2022-23:



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Recognized by AICTE, New Delhi

Approved by PCI, New Delhi

mail-sndcollegeofpharmacy@rediffmail.com

☎ (02559)-225041, 225042 Fax- (02559)-267813

Soyabapho (B)

Date: 03/05/2023

CLASS II

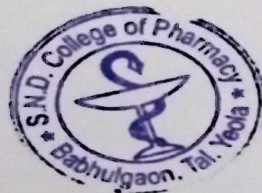
Sessional Theory Answer Sheets Issued/Submission Record 2022-23 2019 Pattern

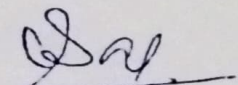
Sr. No.	Name of Subject	Name of Staff	Issuing Date	Sign	Submit Date	Sign
<u>Second Year Semester-IV (Theory)</u>						
1	Physical Pharmaceutics II	Miss. Nagare V.R.	23/05/23	V.R.	12/05/23	V.R.
2	Pharmaceutical Organic Chemistry - III	Mr. Ganesh M.	23/05/23	Ganesh	14/05/23	Ganesh
3	Medicinal Chemistry - I	Dr. Mrs. P.B. Jadhav	21/05/23	P.B.	14/05/23	P.B.
4	Pharmacognosy And Phytochemistry-I	Mr. Shri-V.K.	21/5/23	V.K.	16/6/23	V.K.
5	Pharmacology - I	Mr. Vikas S. S.	27/05/23	V.K.	27/05/23	V.K.

Sessional Practical Answer Sheets Issued/Submission Record 2022-23 2019 Pattern

Sr. No.	Name of Subject	Name of Staff	Issuing Date	Sign	Submit Date	Sign
<u>Second Year Semester-IV (Practical)</u>						
1	Physical Pharmaceutics II	Miss. Nagare V.R.	02/05/23	V.R.	20/05/23	V.R.
2	Medicinal Chemistry - I	Dr. Mrs. P.B. Jadhav	15/05/23	P.B.	19/05/23	P.B.
3	Pharmacognosy And Phytochemistry-I	Mr. Shri-V.K.	14/05/23	V.K.	20/05/23	V.K.
4	Pharmacology - I	Mr. Vikas S. S.	02/05/2023	V.K.	24/05/2023	V.K.

Internal marks Final Record Sheet:




Principal
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Babhulgaon, Tal. Yeola (Nashik)



Examination Education Society's
S.N.D. COLLEGE OF PHARMACY,
BADIJUGAON, TAL. VEOLA, DIST. NASHIK. 422001

Date: 31/05/2023
Class: B.V.B. Pharmacy
Edu: B

Pattern: 2019
Semester: 4
Subject: Physical Pharmaceutics-II

BI-SESSIONAL THEORY FINAL MARKS EXAMINATION 2022-2023

Roll No.	Name Of Student	Sessional - I Marks		Sessional II Marks		Avg	CA Avg	ST Error	Attend	Total Mark
		ISM	ISM	ISM	ISM					
1	Dhruv Desai	20	15	20	15	15	06	02	04	23
2	Dhruv Desai	08	08	08	08	08	08	08	08	08
3	Dhruv Desai	25	15	25	15	15	06	02	04	23
4	Dhruv Desai	27	14	27	11	13	06	02	04	23
5	Dhruv Desai	25	19	27	11	12	06	02	04	22
6	Dhruv Desai	08	08	08	08	08	08	08	08	08
7	Dhruv Desai	28	16	25	15	14	06	02	04	24
8	Dhruv Desai	26	15	23	11	13	06	02	04	23
9	Dhruv Desai	28	14	25	15	14	06	02	04	24
10	Dhruv Desai	18	09	23	11	11	06	02	04	21
11	Dhruv Desai	28	16	27	11	19	06	02	04	23
12	Dhruv Desai	24	12	24	12	12	06	02	04	22
13	Dhruv Desai	25	13	25	13	13	06	02	04	23
14	Dhruv Desai	26	13	19	16	12	06	02	04	22
15	Dhruv Desai	24	12	22	11	12	06	02	04	22
16	Dhruv Desai	28	14	26	13	14	06	02	04	24
17	Dhruv Desai	29	12	27	11	12	06	02	04	22
18	Dhruv Desai	27	11	25	13	12	06	02	04	22
19	Dhruv Desai	22	11	26	13	13	06	02	04	22
20	Dhruv Desai	27	14	25	13	14	06	02	04	24
21	Dhruv Desai	27	11	18	09	10	06	02	04	20
22	Dhruv Desai	18	09	22	11	10	06	02	04	20
23	Dhruv Desai	17	09	22	11	10	06	02	04	20
24	Dhruv Desai	16	09	24	12	10	06	02	04	20
25	Dhruv Desai	26	13	18	09	11	06	02	04	21
26	Dhruv Desai	27	11	27	11	11	06	02	04	21
27	Dhruv Desai	06	03	15	08	06	06	01	04	16
28	Dhruv Desai	28	14	27	11	13	06	02	04	23
29	Dhruv Desai	19	10	19	10	10	06	02	04	20
30	Dhruv Desai	19	10	18	09	10	06	02	04	20

Date: 31/05/2023

Vijay
Name and Sign of NAB In-charge
Praveer Nagar V.R.



Jagdamba Education Society's
S.N.D. COLLEGE OF PHARMACY,
BABHULGAON, TAL-YEOLA, DIST NASHIK 423001

Date: 9/10/2023
Class: D.Y.B. Pharm
Div: B

Pattern: 2019
Semester: 4
Subject: Physical Pharmaceutics II

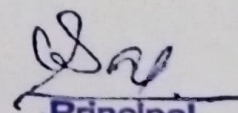
SESSIONAL THEORY FINAL MARKS EXAMINATION 2022-2023

Roll No.	Name Of Student	Sessional - I Marks		Sessional II Marks		Avg. 15M	CA Avege 04M	ST Inter action			Total Mark 28M
		30M	15M	30M	15M			02M	04M	04M	
31	Mahale Shradha	28	14	28	14	14	04	02	04	26	
32	Mahore payal	14	07	14	07	07	04	02	04	17	
33	Morale Akhaya	22	11	22	11	11	04	02	04	21	
34	Nikam Kalyani	28	14	22	11	13	04	02	04	23	
35	Milit Kaulika	26	13	16	08	11	04	02	04	21	
36	Rawade Salish	27	14	18	09	12	04	02	04	22	
37	Rawar Tejas	28	14	24	12	13	04	02	04	23	
38	Pingale Abhinavi	26	13	17	09	11	04	02	04	21	
39	Salhad Pruthviraj	14	07	18	09	08	04	02	04	18	
40	Sakhale Abhijeet	14	07	17	09	08	04	02	04	18	
41	Sadaphal Snehal	28	14	22	11	13	04	02	04	23	
42	Sakure Abhishek	20	10	19	10	10	04	02	04	20	
43	Salke Prasad	22	11	13	07	09	04	02	04	19	
44	Shinde Kunti	14	07	12	06	07	04	02	04	17	
45	Shinde Sakshi	25	13	16	08	11	04	02	04	21	
46	Sitar Akshay	27	14	20	10	12	04	02	04	22	
47	Solase Prasad	12	06	16	08	07	04	02	04	17	
48	Sonawane Rohit	28	14	20	10	12	04	02	04	22	
49	Tambe Arti	22	11	17	09	10	04	02	04	20	
50	Wagh Saiya	18	09	15	08	09	04	02	04	19	
51	Waghmare Kajal	28	14	22	11	13	04	02	04	23	
52	Yeole Manoj	18	09	17	09	09	04	02	04	19	
53	Yeg Sayama	20	10	25	13	12	04	02	04	22	
54	Kale Anushka	15	08	19	10	09	04	02	04	19	
55	Kalare Vantika	28	14	26	13	14	04	02	04	26	
56	Khalal Maya	19	10	23	12	11	04	02	04	21	
57	Kunte Vinda	28	14	22	11	13	04	02	04	23	
58	Mahire Rajendra	12	06	11	06	06	04	02	04	16	
59	Madhe Akshaya	20	10	21	11	11	04	02	04	21	
60	Munje Warshi Tanmay	18	09	15	08	09	04	02	04	19	
61	Shahbhayee Varunika	20	10	23	12	11	04	02	04	21	

Date: 9/10/23

Verified by: V.R. Nagare
Name and Sign of Sub-In-charge:
(V.R. Nagare V.R.)




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MLC, Govt. of Maharashtra

Outward No. SND COP/B.PH./M.PH./D.PH./2022 - 2023 /

Date : 12/09/2022

Mechanism to deal with internal examination related grievances

Grievances regarding examinations are handles by the Examination Committee at the institutional level



The committee's chairperson makes sure that any complaints are deal with quickly and effectively as per the guidelines given by SPPU



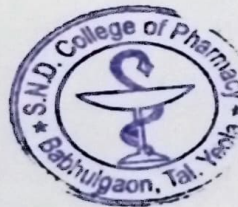
The chief examination officer is tasked with taking all reasonable measures to encourage complete transparency in the exam-conduct processes.

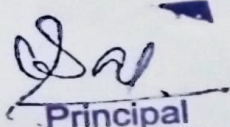


Students complaints are noted while the exam is being administered and when the results are announced



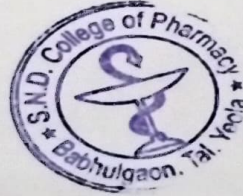
The examination committee effectively reports to the authorities and handle these complaints within stipulated timeframe

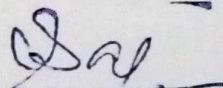


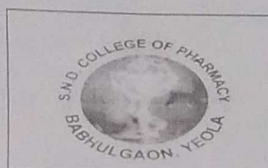

Principal
S. N. D. College of Pharmacy
Babhulgaon, Tal. Yeola (Nasik)

Examination Committee 2022-2023

Sr.No	Name	Designation	Position	Contact No.
1	Dr. R. S. Kalkotwar	Principal	Chairperson	9604631006
2	Mr. P. S. Palghadmal	CEO	Member Secretary	7709555049
3	Mrs. P.B. Jadhav	Assi. Prof	Member	9423053461
4	Mrs. K.S. Sharma	Assi. Prof	Member	9881857172
5	Mr. A.U Gayke	Assi. Prof	Member	8087485381
6	Mrs. A.V. Bhingare	Assi. Prof	Member	9527425116
7	Ms. Pathan Saba Mujeb Khan	Student	Member	9923287868
8	Mr. Jadhav Avinash Bhataram	Student	Member	9922248493
9	Mr. Sonawane Yogesh Gorakh	Student	Member	7887952496
10	Mr. Kale Rameshwari	Student	Member	7721008611




Principal
S. N. D. College of Pharmacy
Babhulgaon, Tal. Yeola (Nashik)




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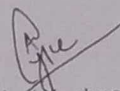
Academic Year: 2022-2023
 Dept.: Pharmacy
 Course: B. Pharmacy
 Pattern: 2019
 Semester: II
 Hours: 4 hrs/week

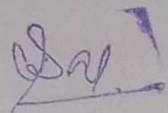
Subject: - Pharmaceutical Organic Chemistry-I
 Class- F.Y. B. Pharm. Class-I Sem - II
PRACTICAL PLAN
 Year-2022-23

Sr. No.	Name of Experiment	No. of Hours Prescribed / No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
1	Safety measures in an organic laboratory.	04/04	A	11/05/2023	11/05/2023	-	Practical book of practical organic chemistry T. L. Minner	Completed
			C	12/05/2023	12/05/2023			
			B	13/05/2023	13/05/2023			
2	Introduction to laboratory techniques: Calibration of thermometer, melting point, boiling point, distillation, and crystallization.	04/04	A	18/05/2023	11/05/2023	-	Practical book of practical organic chemistry John & Minner	Completed
			C	19/05/2023	12/05/2023			
			B	20/05/2023	13/05/2023			
3	To perform systematic qualitative analysis of unknown organic compounds (Aspirin) Salicylic acid	04/04	A	25/05/2023	25/05/2023	NaHCO ₃ , NaOH, KMnO ₄	Practical book of practical organic chemistry John & Minner	Completed
			C	26/05/2023	26/05/2023			
			B	27/05/2023	27/05/2023			
4	To perform systematic qualitative analysis of unknown organic compounds (Resorcinol)	04/04	A	01/06/2023	01/06/2023	Resorcinol Sodium metol, Ferric urea	-	Completed
			C	02/06/2023	02/06/2023			
			B	03/06/2023	03/06/2023			
5	To perform systematic qualitative analysis of unknown organic compounds (Urea)	04/04	A	08/06/2023	08/06/2023	Urea, NaOH, Ferric NaOH	-	Completed
			C	09/06/2023	09/06/2023			
			B	10/06/2023	10/06/2023			

6	To perform systematic qualitative analysis of unknown organic compounds(P-Nitrobenzoic acid)	04/04	A	15/06/2023	15/06/2023	P-nitro benzoic acid	Practical book of poc by Jain & Minjwar	Completed
			C	16/06/2023	16/06/2023			
			B	24/06/2023	24/06/2023			
7	To perform systematic qualitative analysis of unknown organic compounds (Aniline).	04/04	A	06/07/2023	06/07/2023	Much, FeSO ₄ , sodium metat	Practical book of poc by Jain & Minjwar	Completed
			C	30/06/2023	01/07/2023			
			B	01/07/2023	30/06/2023			
8	Determination of Melting point/Boiling point of organic compounds.	04/04	A	13/07/2023	18/05/2023	Liquid Paraffin,	Practical book of poc by Jain & Minjwar	Completed
			C	07/07/2023	19/07/2023			
			B	08/07/2023	20/05/2023			
9	Identification of the unknown compound from the literature using melting point/ boiling point.	04/04	A	20/07/2023	13/07/2023	Liquid Paraffin	Practical book of poc by Jain & Minjwar	Completed
			C	14/07/2023	07/03/2023			
			B	15/07/2023	08/07/2023			
10	Identification of the unknown compound from the literature using melting point/ boiling point.	04/04	A	27/07/2023				-
			C	21/07/2023				
			B	22/07/2023				
11	Preparation of suitable solid derivatives from organic compounds (Acetanilide from Aniline)	04/04	A	03/08/2023	13/08/2023	Aniline Acetyl chloride	Practical Book of poc by Jain & Minjwar	Completed
			C	28/07/2023	14/07/2023			
			B	05/08/2023	15/07/2023			
12	Preparation of suitable solid derivatives from organic compounds (picric acid from phenol) 1,3-diphenoxy dibenzoate	04/04	A	10/08/2023	03/08/2023	Resorcinol, Benzoyl chloride, NaOH	Practical Book of poc by Jain & Minjwar	Completed
			C	04/08/2023	04/08/2023			
			B	12/08/2023	05/08/2023			
13	Building of molecular models of structures containing various functional groups	04/04	A	17/08/2023	03/08/2023	Molecular Atomic kit	Practical Book of poc by Jain & Minjwar	Completed
			C	11/08/2023	04/08/2023			
			B	19/08/2023	05/08/2023			


 Subject In- Charge
 (Mr. Ganad M.C.)


 Academic In-charge
 Mr. A.U. Gayke


 Principal
 Dr. B.S. Kalkotwar
 Principal
 S. N. D. College of Pharmacy
 Babhulgaon, Tal. Yeola (Nasik)



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist. Nashik. Pin- 423 401 (Maharashtra)
NAAC ACCREDITED WITH "B" GRADE

TEACHING PLAN (THEORY)

Course: F.Y. B. Pharm (Class-I)

Semester: II

Subject: Pharmaceutical Organic Chemistry-I

Academic Year: 2022-2023

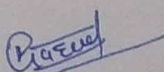
Name of Faculty: Mr. Garad M. C.

Subject Code: BP202T

Sr. No.	Topic Name	No. of Hours Prescribed (3 hours/ week)	Plan Date	Actual Date	Teaching Media	Remark
UNIT-I		(04hrs)				
1	Basic Principles of Organic Chemistry Hybridization of atomic orbitals of carbon, Hybridization of atomic orbitals of nitrogen		11/05/2023	11/05/2023	Chalk & Board	Completed
2	Hybridization of atomic orbitals of oxygen to form molecular Orbitals.		12/05/2023	12/05/2023	Chalk & Board	Completed
3	Types of bonds, bond fission		13/05/2023	12/05/2023	Chalk & Board	Completed
4	Intermolecular forces, inductive effect, steric The effect, electromeric, mesomeric effect, and resonance,		18/05/2023	13/05/2023	Chalk & Board	Completed
5	Hyperconjugation, the concept of tautomerism.		19/05/2023	18/05/2023	Chalk & Board	Completed
UNIT-II		(8hrs)				
6	Classification, Nomenclature, and Isomerism a) Classification of organic compounds i. Compounds containing C, H, atoms only; hydrocarbons (alkanes, alkenes, alkynes, aromatic hydrocarbons, polynuclear aromatic hydrocarbons, aryl-alkyl hydrocarbons, alicyclic hydrocarbons)		20/05/2023	19/05/2023	Chalk & Board	Completed

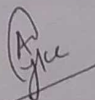
18.	Markownikoff's orientation, free radical addition reactions of alkenes, Anti Markownikoff's orientation		24/06/2023	10/06/2023	Chalk & Board	Completed
19.	iv. Stability of conjugated dienes		30/06/2023	18/06/2023	Chalk & Board	Completed
20.	Diels-Alder, 1,2 and 1,4- electrophilic Addition		01/07/2023	16/06/2023	Chalk & Board	Completed
21.	free radical addition reactions of conjugated dienes, allylic rearrangement names.		06/07/2023	26/06/2023	Chalk & Board	Completed
UNIT-III						
		(08 hrs)				
22.	a) Alkyl halides* i. SN1 and SN2 reactions - kinetics		7/07/2023	30/06/2023	Chalk & Board	Completed
23.	order of reactivity of alkyl halides, stereochemistry and rearrangement of carbocations		08/07/2023	01/07/2023	Chalk & Board	Completed
24.	SN1 versus SN2 reactions, factors affecting SN1 and SN2 reactions.		13/07/2023	06/07/2023 07/07/2023	Chalk & Board	Completed
25.	Structure and uses of ethylchloride, chloroform,		14/07/2023	08/07/2023	Chalk & Board	Completed
26.	trichloroethylene, dichloromethane, tetrachloromethane and iodoform.		15/07/2023	13/07/2023	Chalk & Board	Completed
27.	b) Alcohols* - Qualitative tests.		20/07/2023	13/07/2023	Chalk & Board	Completed
28.	structure and uses of ethyl alcohol,		21/07/2023	14/07/2023	Chalk & Ppt	Completed
29.	chlorobutanol, cetosteryl alcohol, benzyl alcohol, glycerol, and propyleneglycol.		22/07/2023	14/07/2023	Chalk & Ppt	Completed
UNIT - IV						
		(08 hrs)				
30.	Carbonyl compounds* (Aldehydes and ketones) i. Nucleophilic addition		27/07/2023	15/07/2023	Chalk & Board	Completed
31.	Electromeric effect, Aldol condensation, Crossed Aldol condensation		28/07/2023	20/07/2023	Chalk & Board	Completed
32.	Cannizzaro reaction.		03/08/2023	21/07/2023	Chalk & Board	Completed
33.	Crossed Cannizzaro reaction		04/08/2023	21/07/2023	Chalk & Board	Completed

34.	Benzoin condensation		05/08/2023	22/07/2023	Chalk & B	Completed
35.	Perkin condensation		10/08/2023	29/07/2023	Chalk & B	Completed
36.	Qualitative tests, structure and uses of formaldehyde, paraldehyde		11/08/2023	29/07/2023	Chalk & B	Completed
37.	acetone, chloral hydrate, benzaldehyde, vanillin, and cinnamaldehyde.		12/08/2023	31/07/2023	Chalk & B	Completed Extra Lecture (CA)
UNIT - V						
(07 hrs)						
38.	a) Carboxylic acids*					
	i. Acidity of carboxylic acids, effect of substituent/s on acidity		17/08/2023	01/08/2023	PPT	Extra Lecture CA completed
39.	qualitative tests for carboxylic acids, amide and ester		18/08/2023	02/08/2023	PPT	Extra Lecture CA completed
40.	Reactions of interconversion of carboxylic acids, amides and esters		19/08/2023	03/08/2023	PPT	Completed
41.	Structure and uses of acetic acid, lactic acid, tartaric acid/s, citric acid,		24/08/2023	07/08/2023	PPT	Completed
42.	succinic acid, oxalic acid, salicylic acid, benzoic acid, benzyl benzoate		25/08/2023	07/08/2023	PPT	Completed
43.	Dimethyl phthalate, methyl salicylate and acetyl salicylic acid. b) Aliphatic amines* - Basicity		26/08/2023	10/08/2023	Chalk & Board	Completed
44.	Effect of substituent on basicity, qualitative test,		31/08/2023	11/08/2023	PPT	Completed
45.	structure and uses of ethanolamine, ethylenediamine		31/08/2023	12/08/2023	Chalk & Board	Completed



(Name & Signature of Faculty)

(Mr. Garad M. C.)

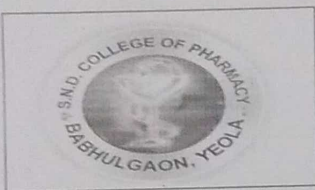


Academic in charge



Principal

S. N. D. College of Pharmacy
Bahulgaon, Tal. Yeola (Nasik)



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
Subject: Pharmacognosy and Phtychemistry - I
Class S.Y.B Pharm Div: II Sem IV....
TEACHING PLAN (Practical)
 Year-2022-23

Academic Year: 2022-23
Dept.: PHARMACOGNOSY
Course: B.Pharm
Pattern: 2019
Semester: IV
Hours: 3 hrs/week
Credits: 2

Sr. No.	Name of Experiment	No. of Hours Prescribed/ No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
1	Determination of size of starch grains, calcium oxalate crystals by eye piece micrometer .	03/03	A	23/1/2023	23/1/2023	Powder crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	24/1/2023	24/1/2023			
			C	25/1/2023	25/1/2023			
2.	Determination of Fiber length and width	03/03	A	30/1/2023	30/1/2023	Powder crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	31/1/2023	31/1/2023			
			C	1/2/2023	1/2/2023			
3.	Determination of stomatal number and index.	03/03	A	6/2/2023	6/2/2023	leaf crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	7/2/2023	7/2/2023			
			C	8/2/2023	8/2/2023			
4.	Determination of vein islet number, vein islet termination and paliside ratio.	03/03	A	13/2/2023	13/2/2023	leaf crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	14/2/2023	14/2/2023			
			C	15/2/2023	15/2/2023			
5.	Determination of moisture content of crude drugs	03/03	A	20/2/2023	20/2/2023	Crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	21/2/2023	21/2/2023			
			C	22/2/2023	22/2/2023			
6.	Determination of Ash value	03/03	A	27/2/2023	27/2/2023	Crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	28/2/2023	28/2/2023			
			C	1/3/2023	1/3/2023			
7.	Determination of swelling index and foaming index	03/03	A	6/3/2023	6/3/2023	Crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	8/3/2023	8/3/2023			
			C	13/3/2023	13/3/2023			

8.	Determination of Extractive values of crude drugs	03/03	A	20/3/2023	20/3/2023	Crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	14/3/2023	14/3/2023			
			C	15/3/2023	15/3/2023			

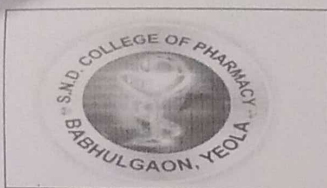
Sr. No.	Name of Experiment	No. of Hours Prescribed/ No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
9.	Determination of number of starch grains by Lycopodium spore method	03/03	A	10/4/2023	10/4/2023	Powder crude drug	Hand book of practical Pharmacognosy by Khandelwal	
			B	11/4/2023	11/4/2023			
			C	12/4/2023	12/4/2023			
10	Analysis of crude drugs by chemical tests: (i) Tragacanth (ii) Acacia (iii) Agar (iv) Gelatin (v) starch (vi) Honey (vii) Castor oil	03/03	A	17/4/2023	17/4/2023	Reagents for identification test.	Hand book of practical Pharmacognosy by Khandelwal	
			B	18/4/2023	18/4/2023			
			C	19/4/2023	19/4/2023			

Subject In- Charge

HOD

Principal

K. S. S.
Mrs. Sharmila K.S



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
Subject: Pharmacognosy and Phytochemistry -I
Class S.Y.B PharmDiv:II SemIV.....
TEACHING PLAN (Theory)
Year-2022-23

Academic Year: 2022-23
 Dept.: PHARMACOGNOSY
 Course: B.Pharm
 Pattern: 2019
 Semester:IV Credits: 4
 Hours: 3 hrs/week

Sr. No	Topic	No. of Hours Prescribed (3 hours/ week)	Plan Date From-To	Actual Execute Date From-To	No. of Lectures Conducted	Teaching Method	Remark
I	UNIT- I	10					
1	Introduction to Pharmacognosy:		17/1/2023-23/1/2023	17/1/2023-23/1/2023	3	LCD, Black board	
2	Classification of drugs:		24/1/2023-25/1/2023	24/1/2023-25/1/2023	2	LCD, Black board	
3	Quality control of Drugs of Natural Origin:		30/1/2023-31/1/2023	30/1/2023-31/1/2023	2	LCD, Black board	
II	UNIT- II	10					
1	Cultivation, Collection, Processing and storage of drugs of natural origin:		14/4/2022-21/4/2022	14/4/2022-21/4/2022	4	LCD, Black board	
2	Conservation of medicinal plants		1/2/2023-8/2/2023	1/2/2023-8/2/2023	3	LCD, Black board	
III	UNIT- III	7					
1	Plant tissue culture:		13/2/2023-20/2/2023	13/2/2023-20/2/2023	4	LCD, Black board	
IV	UNIT- IV	10					
1	Plant description, morphology and anatomy:		21/2/2023-1/3/2023	21/2/2023-1/3/2023	5	LCD, Black board	
2	Introduction to secondary metabolites:		6/3/2023-15/3/2023	6/3/2023-15/3/2023	5	LCD, Black board	
V	UNIT- V	8					
1	Plant Products:		10/4/2023-11/4/2023	10/4/2023-11/4/2023	2	LCD, Black board	
2	Primary metabolites:		12/4/2023-18/4/2023	12/4/2023-18/4/2023	3	LCD, Black board	

3	Carbohydrates:	19/4/2023-25/4/2023	19/4/2023-25/4/2023	3	LCD, Black board	
4	Proteins and Enzymes:	1/5/2023-2/5/2023	1/5/2023-2/5/2023	2	LCD, Black board	
5	Marine Drugs:	8/5/2023-9/5/2023	8/5/2023-9/5/2023	2	LCD, Black board	

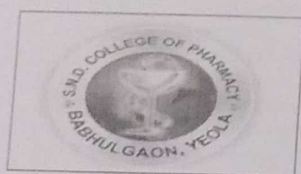
Subject In- Charge

HOD

Principal

K. S.

MSc-Sharma K.S



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
 Subject:-Medicinal Chemistry-I
 Class-S.Y. B.Pharm [Class-I] Semester-IV
TEACHING PLAN (Theory)
 Year-2022-23

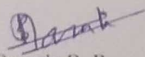
Academic Year: 2022-2023
 Dept.: Pharma. Chemistry,
 Code: BP402T
 Course: B. Pharm
 Pattern: 2019
 Semester: IV Credits: 04

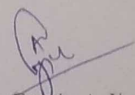
Sr. No	Topic	No. of Hours Prescribed (3 hours/week)	Plan Date From-To	Actual Execute Date From-To	No. of Lectures Conducted	Teaching Method	Remark
I	UNIT-I Introduction to Medicinal Chemistry: a) History and development of medicinal chemistry b) Physicochemical properties in relation to biological action Ionization, Solubility, Partition Coefficient, Hydrogen bonding, Protein binding, Chelation, Bioisosterism, Optical and Geometrical isomerism. c) Drug metabolism Drug metabolism principles - Phase I and Phase II. Factors affecting drug metabolism.	06	6/02/2023 to 15/02/2023	6/2/2023 to 15/2/2023	06	Blackboard	Completed
II	UNIT-II Drugs acting on Autonomic Nervous System a) Adrenergic Neurotransmitters: Biosynthesis and catabolism of catecholamine. Adrenergic receptors (Alpha & Beta) and their distribution.	10	20/02/2023 to 14/03/2023	20/2/2023 to 14/3/2023	10	Blackboard and Power Point Presentation	Completed

	<p>b) Sympathomimetic agents: SAR of Sympathomimetic agents Directacting: Nor-epinephrine, Epinephrine, Dopamine, Phenylephrine, Met hydopa, Clonidine, Dobutamine, Isoproterenol, Terbutaline, Salbutamol, Oxy metazoline and Xylometazoline</p> <p>□ Indirect acting agents: Hydroxyamphetamine, Pseudoephedrine</p> <p>□ Agents with mixed mechanism: Ephedrine, Amphetamine.</p> <p>c) Adrenergic Antagonists:</p> <p>□ Alpha adrenergic blockers: Tolazoline, Phentolamine, Phenoxybenzamine, Prazosin.</p> <p>□ Beta adrenergic blockers: SAR of beta blockers, Propranolol, Atenolol, Labetolol, Carvedilol.</p> <p>[Phenylephrine, Salbutamol, Tolazoline, Propranolol]</p>						
III	<p>UNIT-III</p> <p>a) Cholinergic neurotransmitters : Biosynthesis and catabolism of acetylcholine. Cholinergic receptors (Muscarinic & Nicotinic) and their distribution.</p> <p>b) Parasympathomimetic agents : SAR of Parasympathomimetic agents Direct acting agents : Acetylcholine, Carbachol, Bethanechol, Pilocarpine.</p> <p>Indirect acting/ Cholinesterase inhibitors (Reversible & Irreversible) : Physostigmine, Neostigmine, Edrophonium chloride, Donepezil, Tacrine hydrochloride, Parathion, Malathion.</p> <p>Cholinesterase reactivator : Pralidoxime chloride.</p> <p>c) Cholinergic Blocking agents: SAR of cholinolytic agents : Solanaceous alkaloids and analogues : Atropine sulphate, Scopolamine hydrobromide, Ipratropium bromide Synthetic</p>	10	15/03/2023 to 11/04/2023	15/3/23 to 14/4/23	10	Blackboard and Power Point Presentation	Completed.

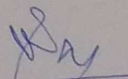
	<p>cholinergic blocking agents : Tropicamide, Cyclopentolatehydrochloride, Dicyclomine, Glycopyrrolate, Propantheline bromide [Neostigmine, Dicyclomine hydrochloride]</p>					
IV	<p>UNIT-IV Drugs acting on Central Nervous System a) Sedatives and Hypnotics : Benzodiazepines : SAR of Benzodiazepines, Chlordiazepoxide, Diazepam, Oxazepam, Chlorazepate, Lorazepam, Alprazolam, Zolpidem Barbiturtes : SAR of barbiturates, Barbitol, Amobarbital, Butobarbital, Pentobarbital, Secobarbital Miscellaneous : Amides & imides Alcohol & their carbamate derivatives Aldehyde & their derivatives b) Antipsychotics Phenothiazines : SAR of Phenothiazines—Chlorpromazinehydrochloride, Thioridazine, Triflupromazine, hydrochloride, Trifluoperazinehydrochloride Ring Analogues of Phenothiazines : Thiothixene, Loxapine succinate, Clozapine. Flurobuterophenones : Haloperidol, Droperidol, Risperidone. Benzamides: Sulpiride. c) Anticonvulsants : SAR of Anticonvulsants, mechanism of anticonvulsant action Barbiturates : Phenobarbitone, Mephobarbital Hydantoins : Phenytoin, Mephentyoin Oxazolidinediones : Trimethadione Succinimides : Phensuximide, Methsuximide Urea and monoacylureas : Phenacemide, Carbamazepine Benzodiazepines : Clonazepam</p>	10	12/04/2023 to 08/05/2023	04/2023 to 08/05/2023	Blackboard and Power Point Presentation	Completed

	<p>Miscellaneous : Levetiracetam, Valproic acid , Gabapentin , Felbamate</p> <p>d) General anesthetics :</p> <p>Inhalation anesthetics : Halothane, Enflurane</p> <p>Ultra-short acting barbiturates : Methohexital sodium, Thiopental sodium.</p> <p>Dissociative anesthetics ; Ketamine hydrochloride.</p> <p>[Diazepam, Chlorpromazine hydrochloride, Carbamazepine, Halothane, Ketamine hydrochloride]</p>						Completed
V	<p>UNIT-V</p> <p>Centrally Acting analgesics</p> <p>a) Narcotic and non-narcotic analgesics Morphine and related drugs : SAR of Morphine analogues, Codeine, Meperidine hydrochloride, Loperamide hydrochloride, Fentanyl citrate, Methadone hydrochloride, Propoxyphene hydrochloride, Pentazocine.</p> <p>Introduction to Narcotic antagonists</p> <p>b) Anti-inflammatory agents : Sodium salicylate, Aspirin, Mefenamic acid, Indomethacin, Sulindac, Diclofenac, Ketorolac, Ibuprofen, Piroxicam, Acetaminophen, Phenylbutazone.</p> <p>[Fentanyl citrate, Mefenamic acid, Diclofenac, Ibuprofen]</p>	09	09/05/2023 to 29/05/2023	9/5/2023 to 29/5/2023		Blackboard	Completed


Mr. Darade R. B.
Subject- in- Charge


Mr. Gayake A. U.
Academic-in-Charge




Dr. Kalkotwar R. S.
Principal
Principal
S. N. D. College of Pharmacy
Babhulgaon, Tal. Yeola (Nasik)

Reference Books –

1. John Marlowe Beale, Wilson and Giswold's Organic medicinal and Pharmaceutical Chemistry. 11th E/d,
2. Thomas L. Lemke, David A. Williams, Victoria F. Roche, Foye's Principles of Medicinal Chemistry.
3. Burger's Medicinal Chemistry, Vol I to IV, 6th E/d, M. E. Wolff. John Wiley & Sons, New York. 1997.
4. Smith and Williams, Introduction to principles of drug design, CRC Press; 4 edition.
5. John E. Hoover, Remington's Pharmaceutical Sciences, Mack Publishing Company; 13th edition (1965).
6. Sean C. Sweetman, Martindale's extra pharmacopoeia, Pharmaceutical Society of Great Britain.
7. Organic Chemistry by I.L. Finar, Vol. II, Longmans Green & Co., 3rd E/d.
8. Daniel Lednicer, Lester A. Mitscher, The Organic Chemistry of Drug Synthesis, John Wiley & Sons, Inc, Vol. 1-5.
9. Indian Pharmacopoeia.
10. Text book of practical organic chemistry- A.I. Vogel.
11. An Introduction to Medicinal chemistry, Graham Patrick



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
Babhulgaon, Tal- Yeola, Dist.-Nasik.
Subject: - Pharmacology I
Class – Second Year B.Pharm, Sem- IV
Class- I
TEACHING PLAN (Theory)
Year-2022 - 2023

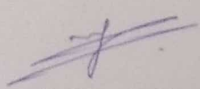
Academic Year: 2022-23
Sub.: Pharmacology
Course: B.Pharm
Pattern: 2019
Semester: III
Hours: 3 hrs. /week

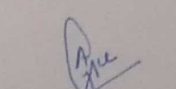
Sr. No	Topic	No. of Hours Prescribed (3 hours/ week)	Plan Date From-To	Actual Executed Date From-To	No. of Lectures Conducted	Teaching Method	Remark
	Unit-I	6 hrs.					
1.	General Pharmacology: Introduction to Pharmacology Definition, Historical landmarks and scope of pharmacology. Nature and source of drugs Essential drugs concept	1	09/02/2023	09/02/2023	01	chalk and Block Board →	OK
2.	Routes of drug administration. Dose response relationship Therapeutic index	2	10/02/2023	10/02/2023	01	chalk and Block Board →	OK
3.	Agonists, Antagonists (competitive and non-competitive), Combined effects of drugs. Factors modifying drug action.	3	11/02/2023	11/02/2023	01	chalk and Block Board	OK
4.	Pharmacokinetics Membrane transport. Absorption of drugs,	4	16/02/2023	16/02/2023	01	chalk & Block Board	OK
5.	Distribution of drugs. Metabolism of drugs.	5	17/02/2023	17/02/2023	01	chalk & Block Board	OK
6.	Excretion of drugs	6	22/02/2023				

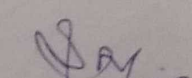
	Enzyme induction Enzyme inhibition Introduction to kinetics of elimination.		23/02/23	01	chalk Board	OK
	Unit-II	12 hrs.				
7.	General Pharmacology Pharmacodynamics: Principles and mechanisms of drug action. Receptor theories	24/02/2023	24/02/2023	01	chalk Board	OK
8.	Classification of receptors, regulation of receptors. Drug receptors interactions.	25/02/2023	25/02/2023	01	chalk Board	OK
9.	Signal transduction mechanisms.	02/03/2023	02/03/2023	01	chalk Board	OK
10.	G-protein-coupled receptors.	03/03/2023	03/03/2023	01	chalk Board	OK
11.	Ion channel receptors. Introduction to transmembrane enzyme linked receptors	04/03/2023	04/03/2023	01	chalk Board	OK
12.	JAK-STAT binding receptors.	09/03/2023	09/03/2023	01	chalk Board	OK
13.	Receptors that regulate transcription factors. Spare receptors.	10/03/2023	10/03/2023	01	chalk Board	OK
14.	Adverse drug reactions: Addiction Tolerance Dependence	11/03/2023	11/03/2023	01	chalk Board	OK
15.	Tachyphylaxis Idiosyncrasy Allergy (explain with suitable examples).	16/03/2023	16/03/2023	01	chalk Board	OK
16.	Drug interactions: Pharmacokinetic and Pharmacodynamic drug interactions.	17/03/2023	17/03/2023	01	chalk Board	OK
17.	Drug discovery and clinical evaluation of new drugs: Introduction to drug discovery.	18/03/2023	18/03/2023	01	chalk Board	OK
18.	Preclinical evaluation and Clinical trials. Introduction to Pharmacovigilance	23/03/2023	23/03/2023	01	chalk Board	OK

	08 hrs.					
19	Pharmacology of drugs acting on Peripheral Nervous System 08 Hrs Introduction to Autonomic Nervous System, Parasympathomimetics, Parasympatholytics, Sympathomimetics and Sympatholytics.	24/03/2023	24/03/2023	01	chalk Block Board	OK
20	Neuromuscular blocking agents and skeletal muscle relaxants (peripheral).	25/03/2023	25/03/2023	01	chalk Block Board	OK
21	Neuromuscular blocking agents and skeletal muscle relaxants (peripheral).	31/03/2023	31/03/2023	01	chalk Block Board	OK
22	Local anaesthetic agents.	01/04/2023	01/04/2023	01	chalk Block Board	OK
23	Local anaesthetic agents.	06/04/2023	06/04/2023	01	chalk Block Board	OK
24	Local anaesthetic agents.	08/04/2023	08/04/2023	01	chalk Block Board	OK
25	Drugs used in myasthenia gravis	13/04/2023	13/04/2023	01	Block Board	OK
26	Drugs used in glaucoma	15/04/2023	15/04/2023	01	Block Board	OK
27	Unit-IV	10 hrs.				
28	Pharmacology of drugs acting on central nervous system: Neurohumoral transmission in the C.N.S. - Special emphasis to be given on importance of various neurotransmitters like with GABA, Glutamate, Glycine, Serotonin, Dopamine.	20/04/2023	20/04/2023	01	Block Board p chalk	OK
29	General anaesthetics and pre-anaesthetics	21/04/2023	21/04/2023	01	chalk) Board	OK
30	General anaesthetics and pre-anaesthetics	27/04/2023	27/04/2023	01	chalk) Board	OK
31	Sedatives, Hypnotics and Centrally acting muscle relaxants	28/04/2023	28/04/2023	01	chalk) Board	OK
32	Sedatives, Hypnotics and Centrally acting muscle relaxants	29/04/2023	29/04/2023	01	chalk) Board	OK
33	Sedatives, Hypnotics and Centrally acting muscle relaxants.	04/05/2023	04/05/2023	01	chalk) Board	OK
34	Anti-epileptics	06/05/2023	06/05/2023	01	chalk) Board	OK
35	Anti-emetics	11/05/2023	11/05/2023	01	chalk) Board	OK

Alcohol and Disulfiram		14/05/2023	12/05/2023	01	Chalk	OK
Alcohol and Disulfiram		13/05/2023	12/05/2023		Board	OK
Unit-V	09 hrs.					
38. Pharmacology of drugs acting on Central Nervous System Psychopharmacological agents: Antipsychotics		18/05/2023	13/05/2023	01	Chalk & Board	OK
39. Antidepressants, Anti-anxiety agents		19/05/2023	18/05/2023	01	Chalk & Board	OK
40. Anti-Manics Hallucinogens		20/05/2023	18/05/2023	01	Chalk & Board	OK
41. Drugs used in Parkinson's disease		25/05/2023	19/05/2023	01	Chalk & Board	OK
42. Drugs used in Alzheimer's disease		26/05/2023	19/05/2023	01	Chalk & Board	OK
43. CNS stimulants		27/05/2023	20/05/2023	01	Chalk & Board	OK
44. Nootropics		1/06/2023	20/05/2023	01	Board	OK
45. Opioid analgesics and antagonists (including addiction, abuse, tolerance and dependence)		02/06/2023	23/05/2023	01	Chalk & Board	OK
46. Opioid analgesics and antagonists (including addiction, abuse, tolerance and dependence)		03/06/2023	23/05/2023	01	Chalk & Board	OK


Mr. Vikas S. Shinde
Subject In-Charge


Mr. A. L. Gayke
Academic In-charge


Dr. R. S. Kulkotwar
Principal



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
Babhulgaon, Tal- Yeola, Dist-Nasik.

Academic Year: 2022-23
SubPharmaceutical Jurisprudence
Course: B.Pharm
Pattern: 2019
Semester: V Credits:
Hours: 3 hrs/week

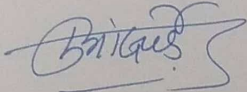
Subject:- Pharmaceutical Jurisprudence
Class – Third Year B.Pharm , Sem- V
(Class-II)

TEACHING PLAN (Theory)

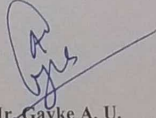
Sr. No	Topic	No. of Hours Prescribed (3 hours/ week)	Plan Date From-To	Actual Executed Date From-To	No. of Lectures Conducted	Teaching Method	Remark
I	UNIT –I	10					
1	Drugs and Cosmetics Act, 1940 and its rules 1945 Objectives, Definitions	01	04/08/2022			Greenboard	NO
2	Legal definitions of schedules to the Act and Rules	02	05/08/2022			Greenboard	NO
3	Import of drugs – Classes of drugs and cosmetics prohibited from import.	03	06/08/2022			Greenboard	NO
4	Import under license or permit	04	12/08/2022			Greenboard	NO
5	Offences and penalties	05	13/08/2022			Greenboard	NO
6	Manufacture of drugs – Prohibition of manufacture and sale of certain drugs	06	18/08/2022			Greenboard	NO
7	Conditions for grant of license and conditions of license for manufacture of drugs.	07	19/08/2022			Greenboard	NO
8	Manufacture of drugs for test, examination and analysis	08	20/08/2022			Greenboard	NO
9	Manufacture of new drug	09	25/08/2022			Greenboard	NO
10	Loan license and repacking license.	10	26/08/2022			Greenboard	NO
II	UNIT –II	10					

11	Detailed study of Schedule G, H, M, N, P, T, U, V, X, Y, Part XII B, Sch F & DMR (OA) Sale of Drugs – Wholesale, Retail sale and Restricted license.	01	27/08/2022				NO
12	Detailed study of Schedule G, H, M, N, P, T, U, V, X, Y, Part XII B, Sch F & DMR (OA) Sale of Drugs – Wholesale, Retail sale and Restricted license.	02	01/09/2022			Greenboard	NO
13	Offences and penalties.	03	02/09/2022			Greenboard	NO
14	Labeling & Packing of drugs- General labeling requirements and specimen labels for drugs and cosmetics.	04	03/09/2022			Greenboard	NO
15	List of permitted colors.	05	08/09/2022			Greenboard	NO
16	Offences and penalties.	06	09/09/2022			Greenboard	NO
17	Administration of the Act and Rules – Drugs Technical Advisory Board, Central drugs Laboratory.	07	10/09/2022			Greenboard	NO
18	Drugs Consultative Committee, Government drug analysts.	08	15/09/2022			Greenboard	NO
19	Licensing authorities, controlling authorities.	09	16/09/2022			Greenboard	NO
20	Drugs Inspectors.	10	17/09/2022			Greenboard	NO
III	UNIT –III	10					
	Pharmacy Act –1948					Greenboard	
21	Objectives, Definitions, Pharmacy Council of India; its constitution and functions.	01	22/09/2022				NO
22	Education Regulations, State and Joint state pharmacy councils	02	23/09/2022			Greenboard	NO
23	constitution and functions, Registration of Pharmacists, Offences and Penalties	03	24/09/2022			Greenboard	NO
	Medicinal and Toilet Preparation Act –1955					Greenboard	
24	Objectives, Definitions, Licensing, Manufacture In bond and Outside bond.	04	29/09/2022				NO
25	Export of alcoholic preparations, Manufacture of Ayurvedic, Homeopathic, Patent & Proprietary Preparations	05	30/09/2022			Greenboard	NO
26	Offences and Penalties	06	01/10/2022			Greenboard	NO
	Narcotic Drugs and Psychotropic substances Act-1985 and Rules					Greenboard	
27	Objectives, Definitions, Authorities and Officers.	07	06/10/2022				NO
28	Constitution and Functions of narcotic & Psychotropic Consultative Committee.	08	07/10/2022			Greenboard	NO
29	National Fund for Controlling the Drug Abuse, Prohibition, Control and Regulation.	09	08/10/2022			Greenboard	NO

30	manufacture, sale and export of opium, Offences and Penalties	10	13/10/2022			Greenboard	NO
IV	UNIT-IV	08					
31	Study of Salient Features of Drugs and Magic Remedies Act and its rules Objectives, Definitions, Prohibition of certain advertisements.	02	14/10/2022			Greenboard	NO
32	Classes of Exempted advertisements, Offences and Penalties	03	15/10/2022			Greenboard	NO
33	Prevention of Cruelty to animals Act-1960 Objectives, Definitions, Institutional Animal Ethics Committee.	04	20/10/2022			Greenboard	NO
34	CPCSEA guidelines for Breeding and Stocking of Animals, Performance of Experiments, Transfer and acquisition of animals for experiment, Records.	05	21/10/2022			Greenboard	NO
35	Power to suspend or revoke registration, Offences and Penalties.	06	22/10/2022			Greenboard	NO
36	National Pharmaceutical Pricing Authority Drugs Price Control Order (DPCO)- 2013.	07	27/10/2022			Greenboard	NO
37	Objectives, Definitions, Sale prices of bulk drugs, Retail price of formulations.	08	28/10/2022			Greenboard	NO
38	Retail price and ceiling price of scheduled formulations, National List of Essential Medicines (NLEM)	09	29/10/2022			Greenboard	NO
V	UNIT -V	07					
39	Pharmaceutical Legislations – A brief review, Introduction, Study of drugs enquiry committee, Health survey and development committee.	01	03/11/2022			Greenboard	NO
40	Hathi committee and Mudaliar committee	02	04/11/2022			Greenboard	NO
41	Code of Pharmaceutical ethics Definition, Pharmacist in relation to his job, trade.	03	05/11/2022			Greenboard	NO
42	medical profession and his profession, Pharmacist's oath.	04	10/11/2022			Greenboard	NO
43	Medical Termination of Pregnancy Act	05	11/11/2022			Greenboard	NO
44	Right to Information Act	06	12/11/2022			Greenboard	NO
45	Introduction to Intellectual Property Rights (IPR)	07	17/11/2022			Greenboard	NO

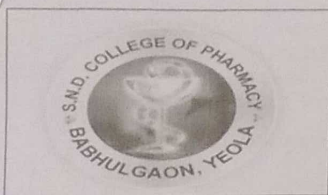


Mr. Gangurde M. S.
Subject In- Charge



Mr. Gayke A. U.
Academic- In charge

Dr. R.S Kalkotwar
Principal



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
Subject: - Pharmacology I
Class- Second Year B.Pharm. Class- I Sem - IV
TEACHING PLAN (PRACTICAL)
 Year-2022-23

Academic Year: 2022-2023
 Dept.: Pharmacy
 Course: B. Pharmacy
 Pattern: 2019
 Semester: IV
 Hours: 4 hrs/week

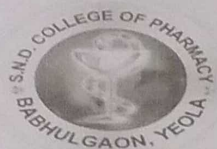
Sr. No.	Name of Experiment	No. of Hours Prescribed / No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
1	Introduction to experimental pharmacology.	04/04	A	09/02/2023	09/02/2023	NO	Yes	No
			B	10/02/2023	10/02/2023			
			C	11/02/2023	11/02/2023			
2	Commonly used instruments in experimental pharmacology.	04/04	A	16/02/2023	16/02/2023	NO	Yes	No
			B	17/02/2023	17/02/2023			
			C	25/02/2023	25/02/2023			
3	Study of common laboratory animals and its possible use.	04/04	A	16/02/2023	16/02/2023	NO	Yes	No
			B	17/02/2023	17/02/2023			
			C	25/02/2023	25/02/2023			
4	Maintenance of laboratory animals as per CPCSEA guidelines.	04/04	A	23/02/2023	23/02/2023	NO	Yes	No
			B	24/02/2023	24/02/2023			
			C	04/03/2023	04/03/2023			
5	Common laboratory techniques. Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.	04/04	A	23/02/2023	23/02/2023	NO	Yes	No
			B	24/02/2023	24/02/2023			
			C	04/03/2023	04/03/2023			
6	Study of different routes of drugs administration in mice/rats.	04/04	A	02/03/2023	02/03/2023	NO	Yes	No
			B	03/03/2023	03/03/2023			
			C	11/03/2023	11/03/2023			

7	Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.	04/04	A	09/03/2023	09/03/2023	NO	Yes	NO
			B	10/03/2023	10/03/2023			
			C	18/03/2023	18/03/2023			
8	Effect of drugs on ciliary motility of frog oesophagus.	04/04	A	16/03/2023	16/03/2023	NO	Yes	NO
			B	17/03/2023	17/03/2023			
			C	25/03/2023	25/03/2023			
9	Effect of drugs on rabbit eye.	04/04	A	16/03/2023	16/03/2023	NO	Yes	NO
			B	17/03/2023	17/03/2023			
			C	25/03/2023	25/03/2023			
10	Effects of skeletal muscle relaxants using rota-rod apparatus.	04/04	A	23/03/2023	23/03/2023	NO	Yes	NO
			B	24/03/2023	24/03/2023			
			C	01/04/2023	01/04/2023			
11	Effect of drugs on locomotor activity using actophotometer.	04/04	A	06/04/2023	06/04/2023	NO	Yes	NO
			B	31/03/2023	31/03/2023			
			C	08/04/2023	08/04/2023			
12	Anticonvulsant effect of drugs by MES and PTZ method.	04/04	A	23/03/2023	23/03/2023	NO	Yes	NO
			B	24/03/2023	24/03/2023			
			C	01/04/2023	01/04/2023			
13	Study of stereotype and anti-catatonic activity of drugs on rats/mice.	04/04	A	06/04/2023	06/04/2023	NO	Yes	NO
			B	31/03/2023	31/03/2023			
			C	08/04/2023	08/04/2023			
14	Study of anxiolytic activity of drugs using rats/mice.	04/04	A	13/04/2023	13/04/2023	NO	Yes	NO
			B	21/04/2023	21/04/2023			
			C	15/04/2023	15/04/2023			
15	Study of local anaesthetics by different methods.	04/04	A	20/04/2023	20/04/2023	NO	Yes	NO
			B	28/04/2023	28/04/2023			
			C	29/04/2023	29/04/2023			

Mr. Vikas.S.Shinde
Subject In- Charge

Mr. A.M. Gayke
Academic In-charge

Dr. R.S. Kalkotwar
Principal

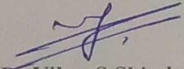


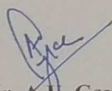
Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
Subject: -Pharmacology I
Class- Second Year B.Pharm. Class-II Sem - IV
TEACHING PLAN (PRACTICAL)
 Year-2022-23

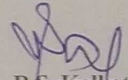
Academic Year: 2022-2023
 Dept.: Pharmacy
 Course: B.Pharmacy
 Pattern: 2019
 Semester: III
 Hours: 4 hrs/week

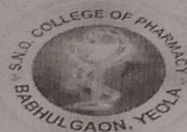
Sr. No.	Name of Experiment	No. of Hours Prescribed / No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
1	Introduction to experimental pharmacology.	04/04	A	07/02/2023	07/02/2023	No	Yes	No
			B	08/02/2023	08/02/2023			
			C	06/02/2023	06/02/2023			
2	Commonly used instruments in experimental pharmacology.	04/04	A	14/02/2023	14/02/2023	No	Yes	No
			B	15/02/2023	15/02/2023			
			C	13/02/2023	13/02/2023			
3	Study of common laboratory animals and its possible use.	04/04	A	14/02/2023	14/02/2023	No	Yes	No
			B	15/02/2023	15/02/2023			
			C	13/02/2023	13/02/2023			
4	Maintenance of laboratory animals as per CPCSEA guidelines.	04/04	A	21/02/2023	21/02/2023	No	Yes	No
			B	22/02/2023	22/02/2023			
			C	20/02/2023	20/02/2023			
5	Common laboratory techniques. Blood withdrawal, serum and plasma separation, anesthetics and euthanasia used for animal studies.	04/04	A	21/02/2023	21/02/2023	No	Yes	No
			B	22/02/2023	22/02/2023			
			C	20/02/2023	20/02/2023			
6	Study of different routes of drugs administration in mice/rats.	04/04	A	28/02/2023	28/02/2023	No	Yes	No
			B	01/03/2023	01/03/2023			
			C	27/02/2023	27/02/2023			

7	Study of effect of hepatic microsomal enzyme inducers on the phenobarbitone sleeping time in mice.	04/04	A	28/02/2023	22/02/2023	NO	YES	NO
			B	01/03/2023	01/03/2023			
			C	27/02/2023	27/02/2023			
8	Effect of drugs on ciliary motility of frog oesophagus.	04/04	A	14/03/2023	14/03/2023	NO	YES	NO
			B	08/03/2023	08/03/2023			
			C	06/03/2023	06/03/2023			
9	Effect of drugs on rabbit eye.	04/04	A	14/03/2023	14/03/2023	NO	YES	NO
			B	08/03/2023	08/03/2023			
			C	06/03/2023	06/03/2023			
10	Effects of skeletal muscle relaxants using rota-rod apparatus.	04/04	A	21/03/2023	21/03/2023	NO	YES	NO
			B	15/03/2023	15/03/2023			
			C	13/03/2023	13/03/2023			
11	Effect of drugs on locomotor activity using actophotometer.	04/04	A	28/03/2023	28/03/2023	NO	YES	NO
			B	29/03/2023	29/03/2023			
			C	20/03/2023	20/03/2023			
12	Anticonvulsant effect of drugs by MES and PTZ method.	04/04	A	11/04/2023	11/04/2023	NO	YES	NO
			B	05/04/2023	05/04/2023			
			C	27/03/2023	27/03/2023			
13	Study of stereotype and anti-catatonic activity of drugs on rats/mice.	04/04	A	18/04/2023	18/04/2023	NO	YES	NO
			B	12/04/2023	12/04/2023			
			C	03/04/2023	03/04/2023			
14	Study of anxiolytic activity of drugs using rats/mice.	04/04	A	25/04/2023	25/04/2023	NO	YES	NO
			B	19/04/2023	19/04/2023			
			C	10/04/2023	10/04/2023			
15	Study of local anaesthetics by different methods.	04/04	A	02/05/2023	02/05/2023	NO	YES	NO
			B	26/04/2023	26/04/2023			
			C	17/04/2023	17/04/2023			


Dr. Vikas.S.Shinde
Subject In- Charge


Mr. A. E. Gayke
Academic In-charge


Dr. R. S. Kalkotwar
Principal



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
 Subject:- MEDICINAL CHEMISTRY-I (406P)
 Class-T.Y. B.Pharm, Semester-IV
TEACHING PLAN (PRACTICAL)
 Year-2022-23

Academic Year: 2022-2023
 Dept.: Pharmaceutical Chemistry
 Course: B.Pharm
 Pattern: 2019
 Semester: IV Credits: 02
 Hours: 3 hours/week

Sr. No.	Name of Experiment	No. of Hours Prescribed/ No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
1	To study laboratory glassware, equipment and techniques.	04	A	6/2/2023	6/2/2023	-	1	Completed
			B	7/2/2023	7/2/2023			
			C	8/2/2023	8/2/2023			
2	To study purification of organic compounds.	04	A	6/2/2023	6/2/2023	-	1	Completed
			B	7/2/2023	7/2/2023			
			C	8/2/2023	8/2/2023			
3	To prepare and submit benzimidazole	04	A	13/2/2023	13/2/2023	OPD, formic acid, Alcohol	1	Completed
			B	14/2/2023	14/2/2023			
			C	15/2/2023	15/2/2023			
4	To prepare and submit benzotriazole	04	A	20/2/2023	20/2/2023	OPD, Acetic acid, NaNO ₂	1	Completed
			B	21/2/2023	21/2/2023			
			C	22/2/2023	22/2/2023			
5	To prepare and submit benzocaine.	04	A	27/2/2023	27/2/2023	PABA, ethanol, H ₂ SO ₄	1	Completed
			B	28/2/2023	19/3/2023			
			C	1/3/2023	1/3/2023			
6	To prepare and submit benzil	04	A	6/3/2023	13/3/2023	Benzoin, Cu Acetate	1	Completed
			B	14/3/2023	21/3/2023			
			C	8/3/2023	8/3/2023			

Sr. No.	Name of Experiment	No. of Hours Prescribed/ No. of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Execute Date	Chemical issue	Reference Book	Remark
7.	To prepare and submit phenytoin	04	A	13/3/2023	20/3/2023	Benzil, urea	1	Completed
			B	21/3/2023	28/3/2023	NaOH, ethanol	2	
			C	15/3/2023	15/3/2023			
8.	To prepare and submit 2,3 diphenyl quinoxaline.	04	A	20/3/2023	27/3/2023	OPD	1	Completed
			B	28/3/2023	11/4/2023	Benzil	2	
			C	29/3/2023	23/3/2023	ethanol		
9.	To prepare and submit Phenothiazine	04	A	27/3/2023	10/4/2023	PFA	1	Completed
			B	11/4/2023	25/4/2023	sulfur	2	
			C	5/4/2023	12/5/2023			
10	To prepare and submit barbiturate	04	A	3/4/2023	10/4/2023	Drethyl malonate, urea	1	Completed
			B	18/4/2023	25/4/2023		2	
			C	19/4/2023	26/4/2023			
11	To prepare and submit 1,3 pyrazole	04	A	10/5/2023	24/5/2023	Ethyl acetate	1	Completed
			B	25/4/2023	02/5/2023	Phenyl hydrazine	2	
			C	26/4/2023	24/4/2023	methanol		
12.	To prepare and submit 1,3 oxazole Benzoyl Glycine from glycine	04	A	17/4/2023	24/4/2023	Glycine	1	Completed
			B	2/5/2023	2/5/2023	Benzoyl chloride	2	
			C	3/5/2023	3/5/2023			
13	To purify given compound by column chromatography	04	A	24/4/2023	8/5/2023	Silica gel	1	Completed
			B	9/5/2023	9/5/2023		2	
			C	10/5/2023	3/5/2023			
14.	To determine the partition coefficient.	04	A	8/5/2023	8/5/2023	water, CCl ₄	1	Completed.
			B	16/5/2023	9/5/2023		2	
			C	17/5/2023	16/5/2023			

Mr. Darade R. B.
Subject in- Charge

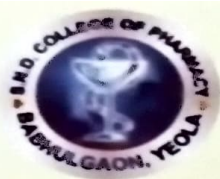
Mr. Gayake A. U.
Academic-in-Charge



Dr. Kalkotwar R. S.
Principal
S. N. D. College of Pharmacy
Babhulgaon, Tal. Yeola (Nasik)

Reference Books:

1. Vogel's Text Book of Practical Organic Chemistry- Brian Furniss, Antony Hannaford, Peter Smith, Austrin (Eds), 5th edition, ELBS Publication, Singapore, 1997.
2. Pragi Arora, Varun Arora, Davinder Kumar. A Textbook of Medicinal Chemistry – I, S. Vikas and Company Publishers, Edition 2020, Jalandhar, India.



Jagdamba Education Society's

S.N.D. COLLEGE OF PHARMACY

BABHULGAON, Tal. Yeola - 423 401, Dist. Nashik (Maharashtra)

NAAC Accredited with 'B' Grade

- Approved by PCI New Delhi
- AICTE New Delhi
- DTE, Govt. of Maharashtra, Mumbai
- Affiliated to Savitribai Phule Pune University, Pune
- Affiliated to MSBTE, Mumbai
- E-mail: sndcollegeofpharmacy@rediffmail.com
- Ph.No. : (02559) 225041 / 42
- Fax : (02559) 225042
- Web : www.sndpharmacy.com

Hon. Shri. Narendra B. Darade

President, Jagdamba Education Society's, Yeola
MLC, Govt. of Maharashtra

Outward No. SNDCOP/B.PH./M.PH./D.PH./2022 - 2023 /

Hon. Shri. Kishor B. Darade

Director, Jagdamba Education Society's, Yeola
MLC, Govt. of Maharashtra

Date : 10/08/2022

ICT Enabled Tools Used For Effective Teaching-Learning process

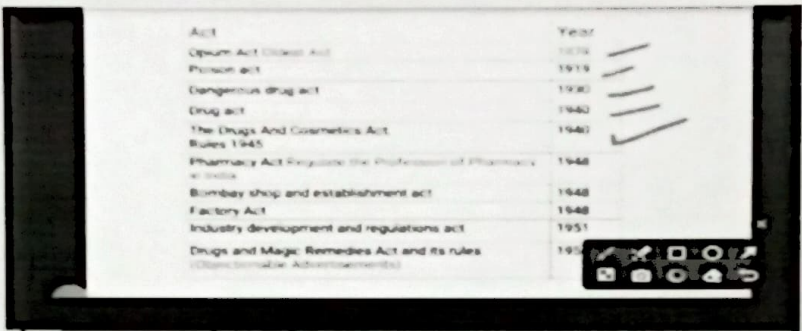
Facilities:

Sr.No.	Name	Make
1	Liquid Crystal Projector	Epson: 07 Dell: 01
2	Desktop computer with internet connection	108
3	Learning Management	Digital Language Lab Software 1+10
4	Smart class	04

Software:

Sr. No	Name of Faculty	Online Tools Youtube Channel
1	Mr. Darade R.B Ms. Waghmare S.A Ms. Bhingare A.V Ms. Bagdane S.B	https://youtube.com/@PharmaMedicinalChemistry2021?si=dJb9IBHhngD6aUU https://www.youtube.com/channel/UCzMipJGWtkp9HXYz4ZrWSEw https://youtu.be/okAcG-93RLY https://youtube.com/@snehalb.bagdane7570?si=wo8ZoepXoar2wjFa

You Tube Channels



Act	Year
Opium Act (Older Act)	1874
Poison act	1919
Dangerous drug act	1930
Drug act	1940
The Drugs And Cosmetics Act, Rules 1945	1940
Pharmacy Act (Regulate the Profession of Pharmacy)	1948
Bombay shop and establishment act	1948
Factory Act	1948
Industry development and regulations act	1951
Drugs and Magic Remedies Act and its rules (Discommoder Advertisements)	1954

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MEDICINAL CHEMISTRY – II (BP501T)
T. Y. B. Pharmacy (Sem- V) As per
PCI Pattern

Prof. Sonali Waghmare
Asst. Professor
SND College of Pharmacy
Bafulgaoan, Yeola

Local Anaesthetics:

SAR of Local anesthetics


Benzoic Acid derivatives: Hexylcaine, Mepylcaine,
Cyclomethycaine, Piperocaine.

Amino Benzoic acid derivatives: Benzocaine*, Butamben,
Procaine*, Butacaine, Propoxycaine, Tetracaine, Benoxinate.

Lidocaine/Anilide derivatives: Lignocaine, Mepivacaine,
Prilocaine, Etidocaine.

Miscellaneous: Phenacaine, Diperodon, Dibucaine *

Local Aneasthetics
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Antiamoebic Drugs

Antiamoebic Drug
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T.Y.B Pharm Semester-5
By
Miss. Snehal Bapusaheb Bagdane
M.Pharm (Pharmaceutical Chemistry)
Assistant Professor
Department of Pharmaceutical Chemistry








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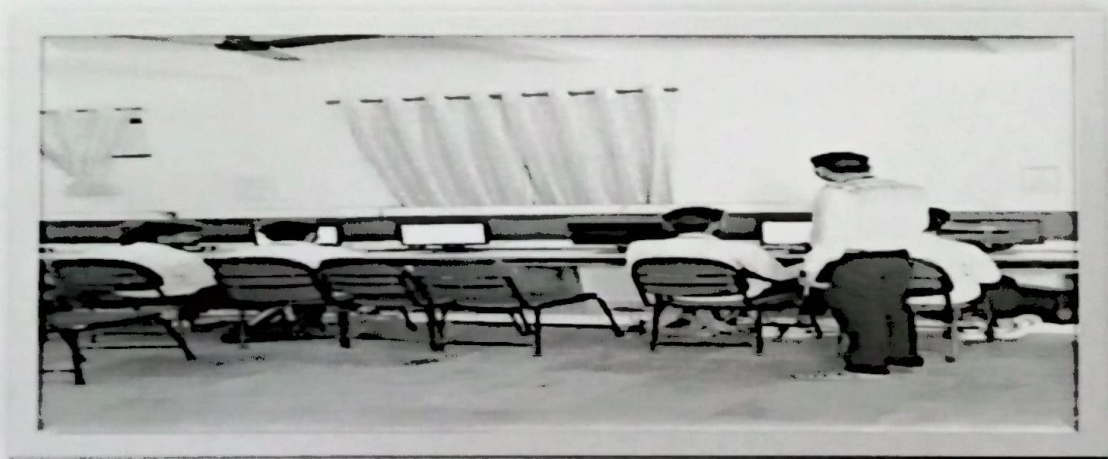
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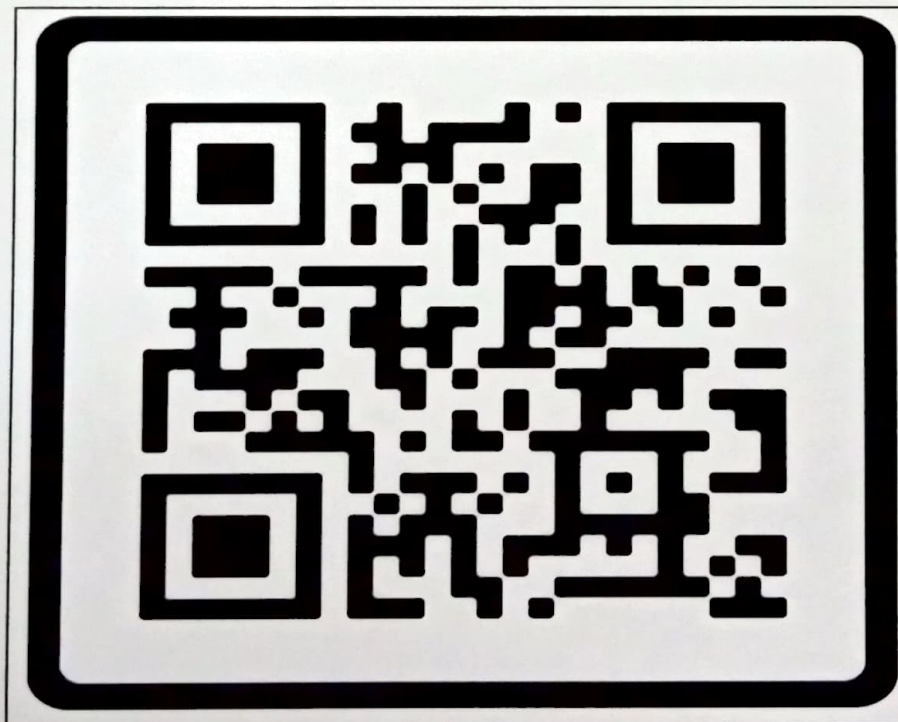




QR Code for Standard Operating Procedure (SOPs):

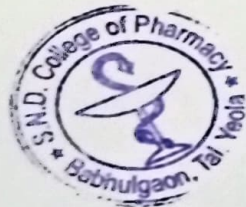
Standard Operating Procedure (SOP) of FTIR

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Standard Operating Procedure (SOP) of Hot Air Oven

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A handwritten signature in blue ink, appearing to be "S. N. D.", is written above the printed name of the principal.

Principal
S. N. D. College of Pharmacy
Babhulgaon, Tal. Yeola (Nasik)