

Jagdamba Education Society's

SND COLLEGE OF PHARMACY

Babhulgaon, Tal- Yeola, Dist-Nasik.

Subject: Human Anatomy and Physiology-II

Class: F.Y. B. Pharm Div-I Sem- II TEACHING PLAN (PRACTICAL)

Year-2021-22

Academic Year: 2021-22

Dept.: Pharmaceutics Course: Pharmacy

Pattern: 2019

Semester: II Credits: Hours: 12 hrs/week

Sr. No.	Name of Experiment	No. Of Hours Prescribed/ No. Of Practical hrs Conducted	Batch	Plan Date (According to batch)	Actual Executed Date	Chemical issue	Reference Book	Remark
	To study the integumentary and	12/12	A	28/03/22	940	of the second	S.Dwivedi, N. Vyas and	
1	special senses using specimen,		·B	29/03/22			S.Malviya ,A Practical book	1627
	models, etc.		C	30/03/22			of Human anatomy and Physiology	
	To determine the Platelet	12/12	A	04/04/22			D. Mandlik and S. Mandlik A	
2	count.		В	05/04/22	A - II	8	Practical book of Human	
			C	06/04/22			anatomy and Physiology	
	To perform the differential	12/12	Α	11/04/22		= - ***	S.R. Kale and R.R. Kale	
3	leukocyte count (DLC).		В	12/04/22	i kan i	T N N	Practical book of Human	
			C	13/04/22			anatomy and Physiology	
	To determine the Arneth	12/12	Α	11/04/22			D. Mandlik and S. Mandlik A	
4	index.	11	В	12/04/22	H		Practical book of Human	
			C	13/04/22	ton ton		anatomy and Physiology	1
	Determination of	12/12	A	18/04/22			D. Mandlik and S. Mandlik A	
5	osmotic fragility of rbcs.		В	19/04/22	4 9		Practical book of Human	
	2 T 2 T 2 T 2 T 2 T 2 T 2 T 2 T 2 T 2 T	-	$^{\circ}$ C	20/04/22		- "	anatomy and Physiology	

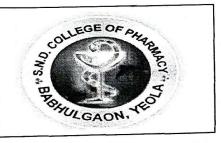
7	To study the nervous system	12/12	Λ	18/04/22		S.Dwivedi, N. Vyas and
6	using specimen, models, etc.,		В	19/04/22	And the state of t	S.Malviya ,A Practical book
3 3			C	20/04/22	Committed and the first of the committee	of Human anatomy and Physiology
	To study the endocrine system	12/12	A	25/04/22		S.Dwivedi, N. Vyas and
7	using specimen, models, etc		В	26/04/22		S.Malviya, A Practical book
100	3.3		C	27/04/22		of Human anatomy and Physiology

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
8	To demonstrate the	12/12	A	25/04/22		e, \$	S.Dwivedi, N. Vyas and	
8	general neurological examination		B	26/04/22		ii	S.Malviya ,A Practical book	
	examination		C	27/04/22		*	of Human anatomy and Physiology	
	To demonstrate the	12/12	A	02/05/22			S.Dwivedi , N. Vyas and	
9	function of olfactory		В	03/05/22			S.Malviya ,A Practical book	
	nerve	,	C	04/05/22			of Human anatomy and Physiology	
	To examine the	12/12	A	02/05/22			S.Dwivedi, N. Vyas and	
10	different types of taste.		В	03/05/22		P 1 W	S.Malviya, A Practical book	
			C	04/05/22		1	of Human anatomy and Physiology	
	To demonstrate the	12/12	A	09/05/22			S.Dwivedi, N. Vyas and	
11	visual acuity		В	10/05/22	7		S.Malviya, A Practical book	
		,	C	11/05/22		9	of Human anatomy and Physiology	
	To demonstrate the	12/12	A	09/05/22			S.Dwivedi , N. Vyas and	
12	reflex activity		В	10/05/22			S.Malviya ,A Practical book of Human anatomy and	
		,	C	11/05/22			Physiology	
13		12/12	٨	16/05/22				

	Recording of body			17/05/22			V. Thakare Human anatomy and Physiology An
	temperature	-	C	18/05/22	-		experimental Handbook
	To demonstrate positive	1	A	16/05/22		**************************************	S.Dwivedi, N. Vyas and S.Malviya, A Practical book
,	and negative feedback	12/12	В	17/05/22			of Human anatomy and
4	mechanism.	12/12	C	18/05/22	211.0		Physiology
	Determination of tidal		A	23/05/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book
	volume and vital	12/12	В	24/05/22			of Human anatomy and
5	capacity.	12/12	C	25/05/22			Physiology
	x			l			
_	Study of Digestive, respiratory,		A	23/05/22	1		S.Dwivedi, N. Vyas and S.Malviya, A Practical book
	cardiovascular systems, urinary		В	24/05/22	1 4		of Human anatomy and Physiology
16	and reproductive systems with the help of models, charts and specimens.	12/12	C	25/05/22		N .	Physiology
17	Recording of basal mass index.	12/12	A B C	30/05/22 31/05/22 01/06/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology
18	Study of family planning devices and pregnancy diagnosis test.	12/12	A B C	30/05/22 31/05/22 01/06/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology
19	Demonstration of total blood count by cell analyzer.	12/12	A B C	06/06/22 07/06/22 08/06/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology
20	Permanent slides of vital organs and gonads.	12/12	A B C	07/06/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology

Subject In- Charge

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Jagdamba Education Society's SND COLLEGE OF PHARMACY

Babhulgaon, Tal- Yeola, Dist-Nasik.

Subject:-Pharmaceutical Organic Chemistry-III Class-S.Y.B.Pharm [Class-I] Semester-IV TEACHING PLAN (Theory)

Year-2021-22

Academic Year: 2021-2022

Dept.: P.Organic Chemistry - III Code: BP401T

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
		T	100 277 200 207				
I	UNIT-I Stereo isomerism Reactions of Chiral molecules Racemic modification and resolution of racemic mixture. Introduction to Asymmetric synthesis with suitable examples.	07	10/03/2022 to 24/03/2022			Blackboard	
п	UNIT-II Geometrical isomerism	06	25/03/2022 to 08/04/2022			Blackboard	

\$	Conformational isomerism in n-Butane and cyclohexane. Stereoisomerism in biphenyl compounds (Atropisomerism) and conditions for optical activity. Stereospecific and stereo selective reactions.					
CV.	UNIT-III Heterocyclic compounds					
ш	Nomenclature and classification of heterocyclic compounds in to classes: Oxygen containing five & six membered rings, Nitrogen containing five & six membered rings, sulphur containing five & six member rings; Oxygen & nitrogen containing five & six membered rings, oxygen & sulphur containing five & six	08	09/04/2022 to 30/04/2022		Blackboard	
	membered rings, and sulphur and nitrogen containing five & six membered rings; benzo-fused heterocyclic compounds as benzimidazole, benzthiazole, benzopyran Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds					

IV	□ Pyrrole, Furan, and Thiophene and their derivatives (any one from each class) UNIT-IV Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds and their derivatives (any one from each class) □ Pyrazole, Imidazole, Oxazole and Thiazole. □ Pyridine, Quinoline, Isoquinoline, Acridine and Indole Synthesis (any one) and medicinal uses of following compounds Pyrimidine, Purine, Azepines and their derivatives (any one from each class)	12	05/05/2022 to 28/05/2022	•	Blackboard & Power Point Presentation	
V	UNIT-V Cycloalkanes- Name Reactions of synthetic importance Pinacol-Pinacolone, Hofmann, Baeyer- Villiger oxidation, Benzilic acid rearrangement reaction, Beckmann's rearrangement and Schmidt rearrangement,	12	02/06/2022 to 25/06/2022		Blackboard	

Claisen-Schmidt condensation,				r .	
Clemmensen reduction, Wolff	9		>		
rearrangement, Oppenauer-oxidation and					
Dakin reaction, and Birch reduction.	1 1 - ₁ - 1	Sec. 2010	4 a 78		

Mr.Darade R. B.

Subject- in- Charge

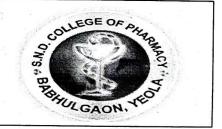
MissBhingare A.V.

Academic-in-Charge

Dr.Kalkotwar

Reference Books -

- 1. Morrison, R. T. & Boyd, R. D., Textbook of Organic Chemistry, VI (ed.) ELBS, London, 1996
- 2. Advanced General Organic Chemistry-A Modern Approach by Sachin Kumar Ghosh, 3/Ed. 2009, New Central Book Agency (P) Ltd.
- 3. Pine, S. H, Organic Chemistry, V, Tata McGraw Hill, New Delhi, 2003
- 4. Finar, I. L., Organic Chemistry Vol. I, V (ed.), ELBS, Pearson Education, New Delhi, 2003
- 5. Joule and Mills, Heterocyclic Chemistry, IV (ed.), Blackwell Publishing House, Oxford, UK, 2004 5. Li, J. J., Name Reactions, III (ed.), Springer, Berlin, 2006
- 6. Stereochemistry of Organic Compound Principles and Applications by Nasipuri, Revised Edition, New Age International Publishers.
- 7. Stereochemistry Conformation and Mechanism by P.S. Kalsi, 7/Ed 2008, New Age International Publishers, New Delhi.
- 8. Stereochemistry of Organic Compound Principles and Applications by Nasipuri, Revised Edition, New Age International Publishers.



Jagdamba Education Society's SND COLLEGE OF PHARMACY

Babhulgaon, Tal- Yeola, Dist-Nasik.

Subject:-Pharmaceutical Organic Chemistry-III
Class-S.Y.B.Pharm [Class-II] Semester-IV
TEACHING PLAN (Theory) Year-2021-22

Academic Year: 2021-2022

Dept.: P. Organic Chemistry - III Code: BP401T

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 Stereo isomerism Reactions of Chiral molecules Racemic modification and resolution of racemic mixture. Introduction to Asymmetric synthesis with suitable examples.	07	10/03/2022 to 24/03/2022			Blackboard	
п	UNIT-II Geometrical isomerism	06	25/03/2022 to 08/04/2022			Blackboard	

	Conformational isomerism in n-Butane and		N	3			
	cyclohexane. Stereoisomerism in biphenyl	5. " 8.					E Common
	compounds (Atropisomerism) and	**************************************			1,00	* * * * * * * * * * * * * * * * * * * *	
	conditions for optical activity.	п			19	4 4	
	Stereospecific and stereo selective					= /	24
8	reactions.	N			n I g		
				z.			-
			*	N N		***************************************	
-			*	¥*	Sign Course		
	UNIT-III	Y .		8		* = =	
	Heterocyclic compounds	,	9	4 1	2	5 W -	
				>			
	Nomenclature and classification of			e.			
	heterocyclic compounds in to classes:						
_	Oxygen containing five & six membered	B		, ju	1 8		IS .
	rings, Nitrogen containing five & six						
=	membered rings, sulphur containing five &		09/04/2022				3-
Ш	six member rings; Oxygen & nitrogen	08	to	i 11 11 21 2	1 1	Blackboard	
	containing five & six membered rings,		30/04/2022			* - = \frac{1}{2}	
- o	oxygen & sulphur containing five & six					7	
	membered rings, and sulphur and nitrogen	#1 					
7	containing five & six membered rings;						0.0
	benzo-fused heterocyclic compounds as					A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	a a
	benzimidazole, benzthiazole, benzopyran	tan a r 3					
	Chemistry, Synthesis (any one),						
						8	
"500 III III III III III III III III III	reactions and medicinal uses of following) w w			
- 1	compounds						
		***		\$			

	☐ Pyrrole, Furan, and Thiophene and their derivatives (any one from each class)					
	UNIT-IV					
	Chemistry, Synthesis (any one), reactions and medicinal uses of following					
	compounds and their derivatives (any one from each class)		05/05/2022		Blackboard	
IV	☐ Pyrazole, Imidazole, Oxazole and Thiazole. ☐ Pyridine, Quinoline,	12	to 28/05/2022		& Power Point	
	Isoquinoline, Acridine and Indole				Presentation	
	Synthesis (any one) and medicinal uses of following compounds Pyrimidine, Purine, Azepines and their derivatives (any					
	one from each class)					
	UNIT-V					
	Cycloalkanes-		02/06/2022			
v	Name Reactions of synthetic importance Pinacol-Pinacolone, Hofmann, Baeyer-	12	to 25/06/2022		Blackboard	
	Villiger oxidation, Benzilic acid rearrangement reaction, Beckmann"s rearrangement and Schmidt rearrangement,					

	Claisen-Schmidt condensation,				;	
	Clemmensen reduction, Wolff				760	,
	rearrangement, Oppenauer-oxidation and					
	Dakin reaction, and Birch reduction.		engleteration to	- "		
3.1 14		×		es es		

Mr. Darade R. B.

Subject- in- Charge

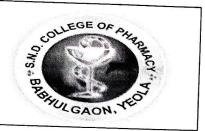
Miss Bhingare A.V.

Academic-in-Charge

Dr. Kalkotwar R. S. 28

Reference Books -

- 1. Morrison, R. T. & Boyd, R. D., Textbook of Organic Chemistry, VI (ed.) ELBS, London, 1996
- 2. Advanced General Organic Chemistry-A Modern Approach by Sachin Kumar Ghosh, 3/Ed. 2009, New Central Book Agency (P) Ltd.
- 3. Pine, S. H, Organic Chemistry, V, Tata McGraw Hill, New Delhi, 2003
- 4. Finar, I. L., Organic Chemistry Vol. I, V (ed.), ELBS, Pearson Education, New Delhi, 2003
- 5. Joule and Mills, Heterocyclic Chemistry, IV (ed.), Blackwell Publishing House, Oxford, UK, 2004 5. Li, J. J., Name Reactions, III (ed.), Springer, Berlin, 2006
- 6. Stereochemistry of Organic Compound Principles and Applications by Nasipuri, Revised Edition, New Age International Publishers.
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Jagdamba Education Society's SND COLLEGE OF PHARMACY

Babhulgaon, Tal- Yeola, Dist-Nasik.

Subject: - Pharmaceutical Organic Chemistry-I Class-F. Y. B. Pharm (Class- II) Semester-II TEACHING PLAN (PRACTICAL) Year-2021-22 Academic Year: 2021-2022

Dept.: Pharmaceutical Organic Chemistry I

Course: B. Pharm Pattern: 2019

Semester: II Credits: 02 Hours: 4 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 safety measures in an organic		A	21/03/2022			-	
•	laboratory.	04	В	22/03/2022			1, 2	
2	Introduction to different laboratory glassware's and equipment's.		<u>C</u>	23/03/2022			1,2	
		04	A B	21/03/2022			1, 2	
			C	22/03/2022 23/03/2022				
	Experiments involving laboratory techniques - A. Recrystallization B. Distillation C. Melting point and	04	A	21/03/2022	W I I			
			В	22/03/2022			1, 2	
-	Boiling point determination		C	23/03/2022				
	Systematic qualitative analysis of unknown organic compounds To identify given organic compound by	04	A	28/03/2022			1, 2	
4			В	29/03/2022				
	qualitative analysis. (Benzoic acid)	×	C	30/03/2022				
5	To identify given organic compound by		A	04/04/2022				
3	qualitative analysis. (alpha napthol)	04	В	05/04/2022		-	1.2	
			C	06/04/2022			1, 2	
	To identify given organic compound by	04	A	11/4/2022			2 2 %	
	qualitative analysis. (O nitro aniline)	04	В	12/4/2022			1, 2	

			C ,	13/4/2022				T
7	To identify given organic compound by qualitative analysis. (thiourea)	04	Α	18/4/2022				
			В	19/04/2022	17.		1.2	
			C	20/04/2022		-	1, 2	
8	To identify given organic compound by		Α	25/04/2022		1		
Ü	qualitative analysis. (Salicylic acid)	04	В	26/04/2022		-		
			C	27/04/2022			1, 2	2-
9	To identify given organic compound by		A	02/05/2022			1.2	
,	qualitative analysis. (Beta napthol)	04	В	10/05/2022		-	1, 2	
		+	C	04/05/2022				
10	To identify given organic compound by qualitative analysis. (Urea)	04	A	09/05/2022		 	1, 2	
			В	17/05/2022				
			C	11/05/2022				
11	Preparation of suitable solid derivatives	04	A	23/05/2022	II		1, 2	
	from organic compounds		В	24/05/2022				
	D		C	18/05/2022				
2	Preparation of suitable solid derivatives	04	A	30/5/2022	* *		1, 2	
	from organic compounds		<u>B</u>	31/05/2022		1	1,2	
	D		C	25/05/2022		1	-	
3	Preparation of suitable solid derivatives	0.4	A	06/06/2022			1, 2	-
	from organic compounds	04	В	07/06/2022			1, 2	
	Building of molecular models of	04	C	01/06/2022		1		
: 1	others at a second		A	13/06/2022			1, 2	
- 1	structures containing various functional groups.		В	14/06/2022				
	Tanononai groups.		C	08/06/2022				

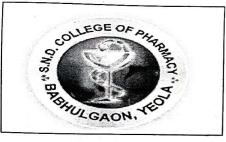
Mr. Darade R. B. Subject in- Charge

Miss. Bhingare A.V. Academic-in-Charge

Dr. R. S. Kalkotwar Principal

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. Experimental Pharmaceutical Organic Chemistry, a benchtop manual by K.S.Jain, P.B. Miniyar and T.S. Chitre, Career Publications.



Jagdamba Education Society's

SND COLLEGE OF PHARMACY

Babhulgaon, Tal- Yeola, Dist-Nasik.

Subject: Human Anatomy and Physiology-II Class: F.Y. B. Pharm Div-II Sem- II

TEACHING PLAN (PRACTICAL)

Year-2021-22

Academic Year: 2021-22 Dept.: Pharmaceutics Course: Pharmacy

Pattern: 2019

Semester: II Credits: Hours: 12 hrs/week

Sr. No.	Name of Experiment	No. Of Hours Prescribed/ No. Of Practical hrs Conducted	Batch	Plan Date (According to batch)	Actual Executed Date	Chemical issue	Reference Book	Remark
	To study the integrandant and	12/12	A	31/03/22		200 J. C.	S.Dwivedi, N. Vyas and	
1	To study the integumentary and special senses using specimen, models, etc.		В	01/04/22			S.Malviya ,A Practical book of	
			C	02/04/22			Human anatomy and Physiology	
	To determine the Platelet count.	12/12	A	07/04/22	3	8	D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	
2			В	08/04/22				
			$\mathbf{C}_{\mathbf{c}}$	09/04/22				
	To perform the differential leukocyte count (DLC).	12/12	A	14/04/22			S.R. Kale and R.R. Kale Practical book of Human	
3			В	15/04/22	esing, y do militar			
			C	16/04/22			anatomy and Physiology	2
	To determine the Arneth index.	12/12	A	14/04/22	1 1 200 0 2		D. Mandlik and S. Mandlik A Practical book of Human	
4			В	15/04/22				36 T V
		9	C	16/04/22	mar must		anatomy and Physiology	
5	Determination of	12/12	A	21/04/22		2, 1,	8 2 1 8 2 1	
	osmotic fragility of rbcs.	- ,	В	22/04/22			10 N N N N N N N N N N N N N N N N N N N	

		760 1	C	23/04/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	t (1)
	To study the nervous system using specimen, models, etc.,	12/12	A	21/04/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
6			В	22/04/22			
	43		С	23/04/22			
	To study the endocrine system using specimen, models, etc	g specimen, models, etc B	A	28/04/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
7			В	29/04/22			
			C	30/04/22			

							Thyslology	
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	Remar
	To demonstrate the	12/12	A	28/04/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
8	general neurological		В	29/04/22				×
.4.0	examination		C	30/04/22				
1 12	To demonstrate the function of olfactory	12/12	A	05/05/22	v		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
9			В	06/05/22				-
9	nerve	1.79	С	07/05/22	11 21 U			
	To examine the	12/12	Α	05/05/22			S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
10	different types of taste.		В	06/05/22	· / / · ·			
Tib.			C	07/05/22				
	To demonstrate the visual acuity	12/12	A	12/05/22	8		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
11:			В	13/05/22	B X B BO A			
			C	14/05/22				
	To demonstrate the	monstrate the	A	12/05/22			S.Dwivedi, N. Vyas and	
12	reflex activity		В	13/05/22			S.Malviya ,A Practical book	

Siology Thakare Human anatomy and Physiology An
and Physiology An
experimental Handbook
S.Dwivedi, N. Vyas and S.Malviya, A Practical book
of Human anatomy and
Physiology
Dwivedi, N. Vyas and
Ialviya, A Practical book
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Physiology
Dwivedi, N. Vyas and
alviya, A Practical book
f Human anatomy and Physiology
of .I.

Subject In- Charge

HOD