

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
1	To study the integumentary and special senses using specimen, models, etc.	12/12	A	28/03/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	29/03/22				
			C	30/03/22				
2	To determine the Platelet count.	12/12	A	04/04/22			D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	
			B	05/04/22				
			C	06/04/22				
3	To perform the differential leukocyte count (DLC).	12/12	A	11/04/22			S.R. Kale and R.R. Kale Practical book of Human anatomy and Physiology	
			B	12/04/22				
			C	13/04/22				
4	To determine the Arneth index.	12/12	A	11/04/22			D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	
			B	12/04/22				
			C	13/04/22				
5	Determination of osmotic fragility of rbc's.	12/12	A	18/04/22			D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	
			B	19/04/22				
			C	20/04/22				

6	To study the nervous system using specimen, models, etc.,	12/12	A	18/04/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	19/04/22			
			C	20/04/22			
7	To study the endocrine system using specimen, models, etc	12/12	A	25/04/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	26/04/22			
			C	27/04/22			

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

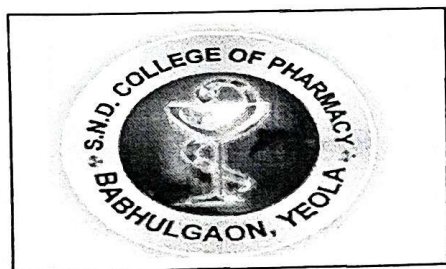
	Recording of body temperature		B	17/05/22		V. Thakare Human anatomy and Physiology An experimental Handbook
			C	18/05/22		
14	To demonstrate positive and negative feedback mechanism.	12/12	A	16/05/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	17/05/22		
			C	18/05/22		
15	Determination of tidal volume and vital capacity.	12/12	A	23/05/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	24/05/22		
			C	25/05/22		

16	Study of Digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.	12/12	A	23/05/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	24/05/22		
			C	25/05/22		
17	Recording of basal mass index.	12/12	A	30/05/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	31/05/22		
			C	01/06/22		
18	Study of family planning devices and pregnancy diagnosis test.	12/12	A	30/05/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	31/05/22		
			C	01/06/22		
19	Demonstration of total blood count by cell analyzer.	12/12	A	06/06/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	07/06/22		
			C	08/06/22		
20	Permanent slides of vital organs and gonads.	12/12	A	06/06/22		S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology
			B	07/06/22		
			C	08/06/22		

Kragare
Subject In- Charge

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HOD

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Principal



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
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	
II	UNIT-II Geometrical isomerism	06	25/03/2022 to 08/04/2022			Blackboard	


	<p>Conformational isomerism in n-Butane and cyclohexane. Stereoisomerism in biphenyl compounds (Atropisomerism) and conditions for optical activity. Stereospecific and stereo selective reactions.</p>						
III	<p style="text-align: center;">UNIT-III</p> <p style="text-align: center;">Heterocyclic compounds</p> <p>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 membered rings, and sulphur and nitrogen containing five & six membered rings; benzo-fused heterocyclic compounds as benzimidazole, benzthiazole, benzopyran</p> <p style="text-align: center;">Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds</p>	08	09/04/2022 to 30/04/2022			Blackboard	

	<input type="checkbox"/> Pyrrole, Furan, and Thiophene and their derivatives (any one from each class)						
IV	<p style="text-align: center;">UNIT-IV</p> <p style="text-align: center;">Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds and their derivatives (any one from each class)</p> <input type="checkbox"/> Pyrazole, Imidazole, Oxazole and Thiazole. <input type="checkbox"/> Pyridine, Quinoline, Isoquinoline, Acridine and Indole	12	05/05/2022 to 28/05/2022			<p style="text-align: center;">Blackboard</p> <p style="text-align: center;">&</p> <p style="text-align: center;">Power Point Presentation</p>	
V	<p style="text-align: center;">UNIT-V</p> <p style="text-align: center;">Cycloalkanes-</p> <p>Name Reactions of synthetic importance</p> <p>Pinacol-Pinacolone, Hofmann, Baeyer-Villiger oxidation, Benzilic acid rearrangement reaction, Beckmann's rearrangement and Schmidt rearrangement,</p>	12	02/06/2022 to 25/06/2022			<p style="text-align: center;">Blackboard</p>	

	Claisen-Schmidt condensation, Clemmensen reduction, Wolff rearrangement, Oppenauer-oxidation and Dakin reaction, and Birch reduction.						
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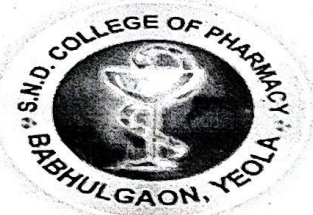

Mr. Darade R. B.
Subject-in-Charge


Miss Bhingare A.V.
Academic-in-Charge


Dr. Kalkotwar R. S.
Principal
28/12/20

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.



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 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	
II	UNIT-II Geometrical isomerism	06	25/03/2022 to 08/04/2022			Blackboard	

	<p>Conformational isomerism in n-Butane and cyclohexane. Stereoisomerism in biphenyl compounds (Atropisomerism) and conditions for optical activity.</p> <p>Stereospecific and stereo selective reactions.</p>						
III	<p style="text-align: center;">UNIT-III</p> <p style="text-align: center;">Heterocyclic compounds</p> <p>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 membered rings, and sulphur and nitrogen containing five & six membered rings; benzo-fused heterocyclic compounds as benzimidazole, benzthiazole, benzopyran</p> <p style="text-align: center;">Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds</p>	08	09/04/2022 to 30/04/2022			Blackboard	

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

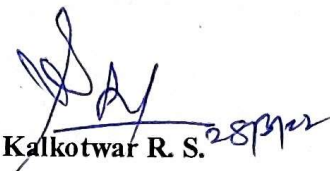
	Claisen-Schmidt condensation, Clemmensen reduction, Wolff rearrangement, Oppenauer-oxidation and Dakin reaction, and Birch reduction.						
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Mr. Darade R. B.
Subject- in- Charge



Miss Bhingare A.V.
Academic-in-Charge

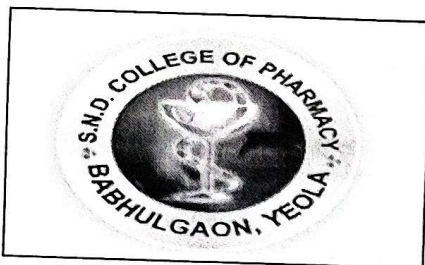


Dr. Kalkotwar R. S.

Principal

Reference Books –

1. Morrison, R. T. & Boyd, R. D., Textbook of Organic Chemistry, VI (ed.) ELBS, London, 1996
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 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 laboratory.	04	A	21/03/2022			1, 2	
			B	22/03/2022				
			C	23/03/2022				
2	Introduction to different laboratory glassware's and equipment's.	04	A	21/03/2022			1, 2	
			B	22/03/2022				
			C	23/03/2022				
3	Experiments involving laboratory techniques - A. Recrystallization B. Distillation C. Melting point and Boiling point determination	04	A	21/03/2022			1, 2	
			B	22/03/2022				
			C	23/03/2022				
4	Systematic qualitative analysis of unknown organic compounds To identify given organic compound by qualitative analysis. (Benzoic acid)	04	A	28/03/2022			1, 2	
			B	29/03/2022				
			C	30/03/2022				
5	To identify given organic compound by qualitative analysis. (alpha naphthol)	04	A	04/04/2022			1, 2	
			B	05/04/2022				
			C	06/04/2022				
6	To identify given organic compound by qualitative analysis. (O nitro aniline)	04	A	11/4/2022			1, 2	
			B	12/4/2022				

7	To identify given organic compound by qualitative analysis. (thiourea)	04	C	13/4/2022			
			A	18/4/2022			
			B	19/04/2022			1, 2
8	To identify given organic compound by qualitative analysis. (Salicylic acid)	04	C	20/04/2022			
			A	25/04/2022			
			B	26/04/2022			1, 2
9	To identify given organic compound by qualitative analysis. (Beta naphthol)	04	C	27/04/2022			
			A	02/05/2022			
			B	10/05/2022			1, 2
10	To identify given organic compound by qualitative analysis. (Urea)	04	C	04/05/2022			
			A	09/05/2022			
			B	17/05/2022			1, 2
11	Preparation of suitable solid derivatives from organic compounds	04	C	11/05/2022			
			A	23/05/2022			
			B	24/05/2022			1, 2
12	Preparation of suitable solid derivatives from organic compounds	04	C	18/05/2022			
			A	30/5/2022			
			B	31/05/2022			1, 2
13	Preparation of suitable solid derivatives from organic compounds	04	C	25/05/2022			
			A	06/06/2022			
			B	07/06/2022			1, 2
14	Building of molecular models of structures containing various functional groups.	04	C	01/06/2022			
			A	13/06/2022			
			B	14/06/2022			1, 2
			C	08/06/2022			

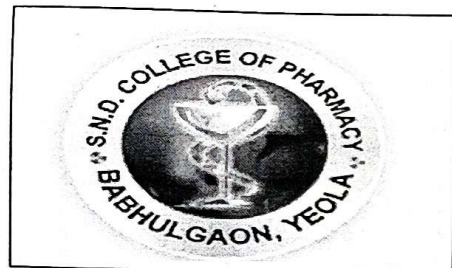

Mr. Darade R. B.
 Subject in- Charge


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.



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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
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2	To determine the Platelet count.	12/12	A	07/04/22			D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	
			B	08/04/22				
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3	To perform the differential leukocyte count (DLC).	12/12	A	14/04/22			S.R. Kale and R.R. Kale Practical book of Human anatomy and Physiology	
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			B	15/04/22				
			C	16/04/22				
5	Determination of osmotic fragility of rbc.	12/12	A	21/04/22				
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			C	23/04/22			D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	
6	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	
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			C	23/04/22				
7	To study the endocrine system using specimen, models, etc	12/12	A	28/04/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
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8	To demonstrate the general neurological examination	12/12	A	28/04/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	29/04/22				
			C	30/04/22				
9	To demonstrate the function of olfactory nerve	12/12	A	05/05/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	06/05/22				
			C	07/05/22				
10	To examine the different types of taste.	12/12	A	05/05/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	06/05/22				
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11	To demonstrate the visual acuity	12/12	A	12/05/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
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			C	14/05/22				
12	To demonstrate the reflex activity	12/12	A	12/05/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book	
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			C	14/05/22			of Human anatomy and Physiology	
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16	Study of Digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.	12/12	A	26/05/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
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20	Permanent slides of vital organs and gonads.	12/12	A	09/06/22			S.Dwivedi , N. Vyas and S.Malviya ,A Practical book of Human anatomy and Physiology	
			B	10/06/22				
			C	11/06/22				

V. Nagare
Subject In- Charge

Bhinyan
HOD

[Signature]
Principal