



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
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- Web : www.sndpharmacy.com

Hon. Shri. Narendra B. Darade

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

Outward No. SND COP/B.PH./M.PH./D.PH./202 / - 2022 /

Hon. Shri. Kishor B. Darade

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

Date : / / 20

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

Scheme for awarding Internal assessment marks in continuous mode :

SARDAR PATEL 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 allotted 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		Maximum Marks
Criteria		
Attendance (Refer Table - XII)	4	03
Academic activities (Average of any 2 activities e.g. quiz, assignment, open book test, field work, group discussion and seminar)	4	
Student - Teacher interaction	2	
Total	10	
Practical		
Attendance (Refer Table - XII)	2	
Based on Practical Reports, 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



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Sessional Theory answer sheet issued/submission Record 2021-22:



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SND COLLEGE OF PHARMACY
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 Approved by Govt. of Maharashtra. Affiliated to University of Pune
 Recognized by AICTE, New Delhi. Approved by PCI, New Delhi
 Email- sndcollegeofpharmacy@rediffmail.com (02559)-225041, 225042 Fax- (02559) 267813

(B)


I/II Sessional Theory Answer Sheets Issued/Submission Record 2021-22
2019 Pattern

Name of Subject	Name of Staff	Issuing Date	Sign	Submit Date	Sign
First Year Semester-II (Theory) CLASS -II					
Sr. No.	Subject				
1	Human Anatomy and Physiology II	Nagark V.R.	22/6/22	Nagark	26/6/22 Nagark
2	Pharmaceutical Organic Chemistry I	Bagde S.B.	25/6/22	Bagde	28/6/22 Bagde
3	Biochemistry	A.S. Panchal	27/6/22	Panchal	29/6/22 Panchal
4	Pathophysiology	Dr. Corbel G.	28/6/22	Corbel	01/7/22 Corbel
5	Computer Applications in Pharmacy	M.J. Panchal A.S.	28/6/22	Panchal	29/6/22 Panchal
6	Environmental sciences				

I/II Sessional Practical Answer Sheets Issued/Submission Record 2021-22
2019 Pattern

Name of Subject	Name of Staff	Issuing Date	Sign	Submit Date	Sign
First Year Semester-II (Practical) CLASS -II					
Sr. No.	Date				
1	Human Anatomy and Physiology II	Nagark V.R.	15/6/22	Nagark	26/6/22 Nagark
2	Pharmaceutical Organic Chemistry I	Bagde R.B.	15/6/22	Bagde	26/6/22 Bagde
3	Biochemistry	Bagde R.B.	16/6/22	Bagde	17/6/22 Bagde
4	Computer Applications in Pharmacy	M.J. Panchal	20/6/22	Panchal	




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Internal marks Final Record Sheet:



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BABHULGAON, TAL-YEOLA, DIST-NASHIK-423401

Date: 17/12/21
Class/Div: P.Y. B. Pharma
Subject: P.P.C.

Pattern: 2019
Semester: III
Batch: P' 2019-21

III SESSIONAL PRACTICAL FINAL MARKS EXAMINATION 2021-2022

Roll No.	Name Of Student	Sessional - I Marks		Sessional - II Marks		Avg	Attendance	Practical Record + Viva	Total Mark
		40M	(10M)	40M	(10M)				
1	Ashay Anshaj	16	4	27	7	6	2	3	11
2	Alexa Shantare	22	6	23	4	3	2	3	13
3	Anirudh Bhoja	16	4	24	6	5	2	3	10
4	Anant Anun	19	5	22	6	6	2	3	11
5	Bhasate Gaurav	25	7	27	7	7	2	3	12
6	Bhaskar Bhoja	22	6	17	5	6	2	3	11
7	Chandor Anish	15	4	25	6	5	2	3	10
8	Dagble Priyanka	11	3	14	4	4	2	3	09
9	Davud Akash	12	3	15	4	4	2	3	09
10	Deepa Nadasaheb	09	2	22	6	3	2	3	08
11	Deshmukh Krunal	20	5	21	6	6	2	3	11
12	Dhanraj Sandip	12	3	15	4	4	2	3	09
13	Dushing Prathibha	23	6	22	6	6	2	3	11
14	Gadhekar Prathmesh	20	3	17	5	4	2	3	09
15	Gaikwad Anil	20	5	19	5	5	2	3	10
16	Gawande Kishor	7	2	20	5	4	2	3	09
17	Gawari Bhoja	13	4	8	2	3	2	3	08
18	Gawand Rushikesh	5	1	5	2	2	2	3	07
19	Gholap Shubhangi	10	3	8	2	3	2	3	08
20	Ghusekar Kshiti	11	3	21	6	05	2	3	09
21	Gore Prathmesh	19	5	15	4	5	2	3	10
22	Gunjal Yogeshwar	28	7	30	8	8	2	3	13
23	Harpade Akshay	6	2	24	6	4	2	3	09
24	Hire Dinesh	5	1	7	2	2	2	3	07
25	Jadhav Avinash	30	8	25	7	8	2	3	13
26	Jadhav Jyoti	25	7	27	7	7	2	3	12
27	Jadhav Rakesh	12	3	14	4	3	2	3	09
28	Jagtap Anu	23	6	34	9	8	2	3	13
29	Kadam Rushikesh	13	3	25	7	05	2	3	10
30	Kadam Tejal	21	6	22	6	6	2	3	11

Date: 17/12/21

Name and Sign of Sub In-charge

(Bhingare A.V)



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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



Examination Committee 2021-22

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	Mr. A.U Gayke	Assi. Prof	Member	8087485381
5	Mrs. A.V. Bhingare	Assi. Prof	Member	9527425116
6	Ms. Thombare Kirti C.	Student	Member	9860082414
7	Mr. Sonawane Rushikesh S.	Student	Member	9834801286
8	Mr. Pahade Bhagyesh D.	Student	Member	9604693672




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Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhulgaon, Tal- Yeola, Dist-Nasik.
 Subject:-Physical Pharmaceutics-II
 Class: - S.Y. B.Pharmacy Div- II Sem: - IV
TEACHING PLAN (PRACTICAL)
 Year-2021-22

Academic Year: 2021-2022
 Dept.: Pharmaceutics
 Course: B.Pharmacy
 Pattern: 2019
 Semester: IV (Div- II) Credits:
 Hours: 3 hrs/week

Sr. No.	Name of Experiment	No. of Hours Prescribed/ No. of Practical hrs Conducted	Batch	Plan Date According to batch	Actual Execute Date	Chemical issue	Reference Book	Remark
1	Determination of particle size, particle size distribution using sieving method	03/03	A	26.02.22	26/2/22	Lactose, starch, talc	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	04.03.22	4/3/22			
			C	28.02.22	28/2/22			
2	Determination of particle size, particle size distribution using Microscopic method	03/03	A	03.03.22	3/3/22	Lactose, starch, talc, Mg.stearate	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	04.03.22	4/3/22			
			C	05.03.22	5/3/22			
3	Determination of bulk density, true density and porosity	03/03	A	10.03.22	10/3/22	ZnSO ₄ , Lactose, starch, talc	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	11.03.22	11/3/22			
			C	12.03.22	12/3/22			
4	Determine the angle of repose and influence of lubricant on angle of repose	03/03	A	17.03.22	17/3/22	MgSO ₄ , ZnSO ₄ , lactose, starch, talc	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	18.03.22	18/3/22			
			C	19.03.22	19/3/22			
5	Determination of viscosity of liquid using Ostwald's viscometer	03/03	A	24.03.22	24/3/22	Distilled water, Honey	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	25.03.22	25/3/22			
			C	26.03.22	26/3/22			
6	Determination sedimentation volume with effect of different suspending agent	03/03	A	31.03.22	31/3/22	Gum Acacia, Calcium carbonate, Gum tragacanth	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	01.04.22	1/4/22			
			C	02.04.22	2/4/22			

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
7	Determination sedimentation volume with effect of different concentration of single suspending agent	03/03	A	07.04.22	7/4/22	Gum Acacia, Calcium carbonate,	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	08.04.22	8/4/22			
			C	09.04.22	9/4/22			
8	Determination of viscosity of semisolid by using Brookfield viscometer	03/03	A	14.04.22	14/4/22	Marketed vico turmeric cream	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	15.04.22	15/4/22			
			C	16.04.22	16/4/22			
9	Determination of reaction rate constant first order.	03/03	A	21.04.22	21/4/22	0.5N Hcl, Ethyl acetate solution 0.05N, Phenolphthalein indicator	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	22.04.22	22/4/22			
			C	23.04.22	23/4/22			
10	Determination of reaction rate constant second order	03/03	A	28.04.22	28/4/22	Ethyl acetate solution 0.05N, Phenolphthalein indicator	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	29.04.22	29/4/22			
			C	30.04.22	30/4/22			
11	Accelerated stability studies	03/03	A	05.05.22	5/5/22	Marketed Formulation	Practical Physical Pharmaceutics A.A. Hajare & H.N. More	Completed
			B	06.05.22	6/5/22			
			C	07.05.22	7/5/22			

Bard
 Subject In- Charge
 Dr. Bard Lokesh Girdhar

HOD

Chingare V



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



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Bahulgaon, Tal- Yeola, Dist-Nasik
 Subject:- Pathophysiology -I

Academic Year: 2021-22
 Sub: Pathophysiology-I
 Course: B.Pharm Pattern:2019
 Semester: II

Class - First Year B.Pharm, Sem-II
 Class- II
TEACHING PLAN (Theory)
 Year-2021 - 2022

Sr. --	Topic	~ of Hours Prescribed (3 hours/ week)	Plan Date From-To	Actual Executed Date From-To	% of Lectures Conducted	Teaching Method	Remark
I	UNIT -I	10			10		
1	Basic principles of Cell injury and Adaptation Introduction, definitions, Homeostasis, Components and Types of Feedback systems, Causes of cellular injury, Pathogenesis		01.04.22	1/4/22	10	Blackboard	} Completed
2	Morphology of cell injury - Adaptive changes (Atrophy, Hypertrophy, hyperplasia, Metaplasia, Dysplasia)		02.04.22	2/4/22		Blackboard	
3	Cellular accumulation, Calcification, Enzyme leakage		07.04.22	7/4/22		Blackboard	
4	Cell Death Acidosis & Alkalosis, Electrolyte imbalance		08.04.22	8/4/22		Blackboard	
5	Basic mechanism involved in the process of inflammation and repair - Introduction		09.04.22	9/4/22		Blackboard	
6	Clinical signs of inflammation		14.04.22	14/4/22		Blackboard	} Completed
7	types of Inflammation, Mechanism of Inflammation		15.04.22	15/4/22		Blackboard	
8	Alteration in vascular permeability and blood flow, migration of WBC's, Mediators of inflammation		16.04.22	16/4/22		Blackboard	
9	basic principles of wound healing in the skin,		21.04.22	21/4/22		Blackboard	
10	Pathophysiology of Atherosclerosis		22.04.22	22/4/22		Blackboard	
II	UNIT-II	10		10	10		
11	Cardiovascular System:- Introduction		23.04.22	23/4/22		Blackboard	} Completed
12	Hypertension, congestive heart failure,		28.04.22	28/4/22		Blackboard	
13	infarction, atherosclerosis and arteriosclerosis)		29.04.22	29/4/22		Blackboard	
14	Ischemic heart disease: Angina, Myocardial		30.04.22	30/4/22		Projector	
15	chronic Asthma & related factors		30.04.22	30/4/22			} Completed
16	obstructive airways diseases.		05.05.22	5/5/22		Blackboard	
17	obstructive airways diseases.		06.05.22	6/5/22		Blackboard	
18	Renal system:- Introduction		07.05.22	7/5/22		Blackboard	
19	Acute renal failure		12.05.22	12/5/22		Blackboard	} Completed
20	chronic renal failure .		13.05.22	13/5/22		Blackboard	
III		10			08		
21	Haematological Diseases- Introduction		14.05.22	14/5/22	08	Blackboard	} Completed
22	Iron deficiency, megaloblastic anemia (Vit B12 and folic acid)		19.05.22	19/5/22		Blackboard	
23	sickle cell anemia, thalasemia, hereditary acquired anemia, hemophilia		20.05.22	20/5/22		Blackboard	
24	Endocrine system: Diabetes, thyroid diseases		21.05.22	21/5/22		Blackboard	
25	disorders of sex hormones		26.05.22	26/5/22		Blackboard	
26	Nervous system: Epilepsy, Parkinson's disease		27.05.22	27/5/22		Blackboard	
27	stroke, psychiatric disorders: depression, schizophrenia and Alzheimer's disease.		28.05.22	28/5/22		Blackboard	
28	Gastrointestinal system: Peptic Ulcer		02.06.22	2/6/22		Blackboard	
IV	UNIT-IV	10			10		
29	Inflammatory bowel diseases		03.06.22	3/6/22	10	Blackboard	} Completed
30	jaundice, hepatitis (A,B,C,D,E,F)		03.06.22	5/6/22		Blackboard	
31	alcoholic liver disease.		04.06.22	4/6/22		Blackboard	
32	Disease of bones and joints		04.06.22	4/6/22		Blackboard	
33	Rheumatoid arthritis, osteoporosis and gout		09.06.22	9/6/22		Blackboard	
34	Principles of cancer:		10.06.22	10/6/22		Blackboard	
35	classification, etiology		10.06.22	10/6/22		Blackboard	
36	pathogenesis of cancer		11.06.22	11/6/22		Blackboard	
37	Diseases of bones and joints: Rheumatoid Arthritis Osteoporosis, Gout		11.06.22	11/6/22		Blackboard	
38	Principles of Cancer: Classification, etiology and pathogenesis of Cancer		13.06.22 Extra			Blackboard	
V	UNIT-V	07			07		
39	Infectious diseases: Meningitis		11.06.22	11/6/22	07	Blackboard	} Completed
40	Typhoid, Leprosy		16.06.22	16/6/22		Blackboard	
41	Tuberculosis		16.06.22	16/6/22		Blackboard	
42	Urinary tract infections		17.06.22	17/6/22		Blackboard	
43	Sexually transmitted diseases: Syphilis AIDS and symptoms of AIDS		17.06.22 (Extra)			Blackboard	

44	AIDS: Treatment, Prevention	18-06-22	19/6/22		
45	Syphilis	18.06.22	18/6/22		
46	Gonorrhoea	18.06.22	19/6/22	Blackboard	(Completed)

Reference Book

1. Vinay Kumar, Abul K. Abas, Jon C. Aster, Robbins & Cotran Pathologic Basis of Disease; South Asia edition; India; Elsevier; 2014
2. Harsh Mohan; Text book of Pathology; 6th edition; India; Jaypee Publications; 2010.
3. Laurence B, Bruce C, Bjorn K. ; Goodman Gilman's The Pharmacological Basis of Therapeutics; 12th edition; New York; McGraw-Hill; 2011.
4. Best, Charles Herbert 1899-1978; Taylor, --man Burke 1885-1972; West, John B (John Burnard); Best and Taylor's Physiological basis of medical practice; 12th ed; united states;
5. William and Wilkins, Baltimore; 1991 [1990 printing].

DL
 Dr. Lokesh .G Barde
 Subject In- Charge

HOD



R.S.
 Dr. R.S. Kulkarni
 Principal
 SND College of Pharmacy
 Babhugaon, Tal Yeola (Nashik)
 B.PHARMACY

Bhinyar
 (Bhinyar .D.V)
 Academic incharge.



Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Babhugaon, Tal- Yeola, Dist-Nashik.
 Subject :- Human Anatomy & Physiology-II
 Class- F.Y.B.Pharm(Class II) Sem: II
TEACHING PLAN (Theory) Year-2021-22

Academic Year: 2021-22
 Dept.: Pharmaceutics
 Course: Pharmacy
 Pattern: 2019
 Semester: II Credits:

Sr. No	Topic	No. Of Hours Prescribed (3 hours/ week)	Planned Dates From-To	Actual Executed Date From-To	No. Of Lectures Conduct ed	Teachin g Method	Remark
Unit: I Nervous system							
1	Organization of nervous system, neuron, neuroglia	10 hrs	31/03/22 01/04/22	31/3/22	02		OK
2	Classification and properties of nerve fiber, electrophysiology, action potential		02/04/22 07/04/22 08/04/22	2/4/22	02	Check & Board	OK
3	Nerve impulse, receptors, synapse, neurotransmitters.		08/04/22 09/04/22 09/04/22	7/4/22	01	Check Board	OK
4	Central nervous system: Meninges, ventricles of brain and cerebrospinal fluid.		8/4/22	01	Check & Board	OK	
5	Structure and functions of brain (cerebrum, brain stem, cerebellum).		9/4/22	02	Check & Board	OK	
6	Spinal cord (gross structure, functions of afferent and efferent nerve tracts, reflex activity)		9/4/22	02	Check & Board	OK	
Unit: II Digestive system							
1	Anatomy of GI Tract with special reference to anatomy and functions of stomach	8 hrs	14/04/22 15/04/22 16/04/22 21/04/22 21/04/22	14/4/22	01	Check & Board	OK
2	Acid production in the stomach, regulation of acid production through parasympathetic nervous system, pepsin role in protein digestion		15/4/22	02	Check & Board	OK	
3	Small intestine and large intestine		21/4/22	01	Check & Board	OK	

4	Anatomy and functions of salivary glands, pancreas and liver		22/04/22 22/04/22 23/04/22	22/04/22	01	Check Board	OK
5	Movements of GIT, digestion and absorption of nutrients and disorders of GIT.			22/04/22	01	Check & Board	OK
6	Energetics: Formation and role of ATP, Creatinine Phosphate and BMR.			23/04/22	01	Check & Board	OK
Unit: III							
Chapter No.- 01							
Respiratory system							
1	Anatomy of respiratory system with special reference to anatomy of lungs	6 hrs	28/04/22 29/04/22 30/04/22 05/05/22	28/4/22	02	check Board	OK
2	Mechanism of respiration, regulation of respiration. Lung Volumes and capacities transport of respiratory gases		05/05/22 06/05/22	30/4/22	7	Check & Board	OK
3	Artificial respiration, and resuscitation methods.			5/5/22	03	Check & Board	OK

Chapter No.- 02							
Urinary system							
1	Anatomy of urinary tract with special reference to anatomy of kidney and nephrons	4 hrs	07/05/22 12/05/22 12/05/22 13/05/22	12/5/22		Check & Board	OK
2	Functions of kidney and urinary tract		12/5/22 13/5/22		Board	OK	
3	Physiology of urine formation, micturition reflex and role of kidneys in acid base balance						OK
4	Role of RAS in kidney and disorders of kidney						OK
Unit: IV							
Endocrine system							
1	Classification of hormones, mechanism of hormone action	8 hrs	14/05/22 19/05/22 19/05/22 20/05/22 20/05/22 21/05/22 26/05/22 27/05/22	19/5/22		Check & Board	OK
2	Structure and functions of pituitary gland, thyroid gland, parathyroid gland		19/05/22 20/05/22 21/05/22	to	Board	OK	
3	Adrenal gland, pancreas			27/5/22			OK
4	Pineal gland, thymus						OK

	and their disorders.						
Unit: V							
Reproductive system							
1	Anatomy of male and female reproductive system	7 hrs	28/05/22 02/06/22 02/06/22 03/06/22 04/06/22 04/06/22 09/06/22	28/5/22	2	check & Board	OK
2	Functions of male and female reproductive system, sex hormones		2/6/22	2	check & Board	OK	
3	Physiology of menstruation, fertilization,		4/6/22	2	check & Board	OK	
	Spermatogenesis, oogenesis, pregnancy and parturition		4/6/22	1	check & Board	OK	
	Introduction to genetics Chromosomes, genes and DNA, protein synthesis, genetic pattern of inheritance	2 hrs	10/06/22 11/06/22	10/6/22	2	check & Board	OK

Subject In- Charge

HOD

SND College of Pharmacy
Babhugaon, Tal. Yedus, Nashik
B. PHARMACY





Jagdamba Education Society's
SND COLLEGE OF PHARMACY
 Bhabulgaon, Tal- Yeshu, 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	10/3/2022 - 23/3/22	06	Blackboard	Completed
II	UNIT-II Geometrical isomerism	06	25/03/2022 to 08/04/2022	24/3/22 - 31/4/22	07	Blackboard	Completed

	Conformational isomerism in n-Butane and cyclohexane. Stereoisomerism in biphenyl compounds (Atropisomerism) and conditions for optical activity. Stereospecific and stereo selective reactions.						
III	UNIT-III Heterocyclic compounds 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 Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds	08	09/04/2022 to 30/04/2022	10/4/22 - 30/4/22	07	Blackboard	Completed


	<input type="checkbox"/> Pyrrole, Furan, and Thiophene and their derivatives (any one from each class)						
IV	UNIT-IV Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds and their derivatives (any one from each class) <input type="checkbox"/> Pyrazole, Imidazole, Oxazole and Thiazole. <input type="checkbox"/> 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	5/5/22 - 28/5/22	12	Blackboard & Power Point Presentation	Completed
V	UNIT-V Cycloalkanes- Name Reactions of synthetic importance Pinacol-Pinacolone, Hofmann, Baeyer-Villiger oxidation, Benziic acid rearrangement reaction, Beckmann's rearrangement and Schmidt rearrangement,	12	02/06/2022 to 25/06/2022	2/6/22 - 25/6/22	12	Blackboard	Completed

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


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


Miss Bhingare A.V.
Academic-in-Charge




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

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-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	10/3/22 - 24/3/22	07	Blackboard	Completed
II	UNIT-II Geometrical isomerism	06	25/03/2022 to 08/04/2022	25/3/22 - 8/4/22	06	Blackboard	Completed

	Conformational isomerism in n-Butane and cyclohexane. Stereoisomerism in biphenyl compounds (Atropisomerism) and conditions for optical activity. Stereospecific and stereo selective reactions.						
III	UNIT-III Heterocyclic compounds 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 Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds	08	09/04/2022 to 30/04/2022	9/4/22 - 30/4/22	08	Blackboard	Completed

	Conformational isomerism in n-Butane and cyclohexane. Stereoisomerism in biphenyl compounds (Atropisomerism) and conditions for optical activity. Stereospecific and stereo selective reactions.						
III	<p>UNIT-III</p> <p>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>Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds</p>	08	09/04/2022 to 30/04/2022	9/4/22 - 30/4/22	08	Blackboard	Completed

	□ Pyrrole, Furan, and Thiophene and their derivatives (any one from each class)						
IV	<p>UNIT-IV</p> <p>Chemistry, Synthesis (any one), reactions and medicinal uses of following compounds and their derivatives (any one from each class)</p> <p>□ Pyrazole, Imidazole, Oxazole and Thiazole. □ Pyridine, Quinoline, Isoquinoline, Acridine and Indole</p> <p>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	5/5/22 - 28/5/22	12	Blackboard & Power Point Presentation	Completed
V	<p>UNIT-V</p> <p>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	2/6/22 - 25/6/22	12	Blackboard	Completed

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

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



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



Jagamba Education Society's
SND COLLEGE OF PHARMACY
 Bahulgaon, 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	28/3/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	29/03/22	29/3/22			
			C	30/03/22	30/3/22			
2	To determine the Platelet count.	12/12	A	04/04/22	4/4/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	Completed
			B	05/04/22	5/4/22			
			C	06/04/22	6/4/22			
3	To perform the differential leukocyte count (DLC).	12/12	A	11/04/22	11/4/22		S.R. Kale and R.R. Kale Practical book of Human anatomy and Physiology	Completed
			B	12/04/22	12/4/22			
			C	13/04/22	13/4/22			
4	To determine the Arneith index.	12/12	A	21/04/22	11/4/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	Completed
			B	12/04/22	12/4/22			
			C	13/04/22	13/4/22			
5	Determination of osmotic fragility of rbc.	12/12	A	18/04/22	18/4/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	Completed
			B	19/04/22	19/4/22			
			C	20/04/22	20/4/22			

6	To study the nervous system using specimen, models, etc.,	12/12	A	18/04/22	18/4/22		S.Dwivedi, N. Vyas and S.Malviya A Practical book of Human anatomy and Physiology	
			B	19/04/22	19/4/22			
			C	20/04/22	20/4/22			
7	To study the endocrine system using specimen, models, etc	12/12	A	25/04/22	25/4/22		S.Dwivedi, N. Vyas and S.Malviya A Practical book of Human anatomy and Physiology	
			B	26/04/22	26/4/22			
			C	27/04/22	27/4/22			

Sr. No.	Name of Experiment	No. Of Hours Prescribed/ No. Of Practical hrs Conducted	Batch	Plan Date (According to batch and date)	Actual Executed Date	Chemical issue	Reference Book	Remark
8	To demonstrate the general neurological examination	12/12	A	25/04/22	25/4/22		S.Dwivedi, N. Vyas and S.Malviya A Practical book of Human anatomy and Physiology	Completed
			B	26/04/22	26/4/22			
			C	27/04/22	27/4/22			

6	To study the nervous system using specimen, models, etc.,	12/12	A	18/04/22	18/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
			B	19/04/22	19/5/22		
			C	20/04/22	20/5/22		
7	To study the endocrine system using specimen, models, etc	12/12	A	25/04/22	25/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	
			B	26/04/22	26/5/22		
			C	27/04/22	27/5/22		

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	Remarks
8	To demonstrate the general neurological examination	12/12	A	25/04/22	25/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	26/04/22	26/5/22			
			C	27/04/22	27/5/22			
9	To demonstrate the function of olfactory nerve	12/12	A	02/05/22	2/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	03/05/22	3/5/22			
			C	04/05/22	4/5/22			
10	To examine the different types of taste.	12/12	A	02/05/22	2/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	03/05/22	3/5/22			
			C	04/05/22	4/5/22			
11	To demonstrate the visual acuity	12/12	A	09/05/22	9/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	10/05/22	10/5/22			
			C	11/05/22	11/5/22			
12	To demonstrate the reflex activity	12/12	A	09/05/22	9/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	10/05/22	10/5/22			
			C	11/05/22	11/5/22			
13		12/12	A	16/05/22	16/5/22			Completed

14	Recording of body temperature	12/12	B	17/05/22	17/5/22	V. Thakare Human anatomy and Physiology An experimental Handbook	Completed
			C	18/05/22	18/5/22		
			A	16/05/22	16/5/22		
15	To demonstrate positive and negative feedback mechanism.	12/12	B	17/05/22	17/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			C	18/05/22	18/5/22		
			A	23/05/22	23/5/22		
16	Determination of tidal volume and vital capacity.	12/12	B	24/05/22	24/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			C	25/05/22	25/5/22		
			A	23/05/22	23/5/22		
17	Study of Digestive, respiratory, cardiovascular systems, urinary and reproductive systems with the help of models, charts and specimens.	12/12	A	23/05/22	23/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	24/05/22	24/5/22		
			C	25/05/22	25/5/22		
18	Recording of basal mass index.	12/12	A	30/05/22	30/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	31/05/22	31/5/22		
			C	01/06/22	1/6/22		
19	Study of family planning devices and pregnancy diagnosis test.	12/12	A	30/05/22	30/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	31/05/22	31/5/22		
			C	01/06/22	1/6/22		
20	Demonstrations of total blood count by cell analyzer.	12/12	A	06/06/22	6/6/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	07/06/22	7/6/22		
			C	08/06/22	8/6/22		
20	Permanent slides of vital organs and gonads.	12/12	A	06/06/22	6/6/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	07/06/22	7/6/22		
			C	08/06/22	8/6/22		

K. Anand
Subject In- Charge

M. Anand
HOD

P. Anand
SND College of Pharmacy
Babulgaon, Tal Yeola (Nashik)
B.PHARMACY



Jagdish Education Society's
SND COLLEGE OF PHARMACY
 Bahubhagan, 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
1	To study the 'integumentary and special senses using specimen, models, etc.	12/12	A	31/03/22	21/4/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	01/04/22	22/4/22			
			C	02/04/22	23/4/22			
2	To determine the Platelet count.	12/12	A	07/04/22	24/4/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	Completed
			B	08/04/22	25/4/22			
			C	09/04/22	26/4/22			
3	To perform the differential leukocyte count (DLC).	12/12	A	14/04/22	25/4/22		S.R. Kale and R.R. Kale Practical book of Human anatomy and Physiology	Completed
			B	15/04/22	26/4/22			
			C	16/04/22	27/4/22			
4	To determine the Arseth index.	12/12	A	14/04/22	26/4/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	Completed
			B	15/04/22	27/4/22			
			C	16/04/22	28/4/22			
5	Determination of osmotic fragility of RBCs.	12/12	A	21/04/22	29/4/22			Completed
			B	22/04/22	29/4/22			

			C	23/04/22	28/4/22		D. Mandlik and S. Mandlik A Practical book of Human anatomy and Physiology	Completed
6	To study the nervous system using specimen, models, etc.,	12/12	A	21/04/22	21/4/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	22/04/22	22/4/22			
			C	23/04/22	23/4/22			
7	To study the endocrine system using specimen, models, etc	12/12	A	28/04/22	28/4/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	29/04/22	29/4/22			
			C	30/04/22	30/4/22			

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	28/04/22	28/4/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	29/04/22	29/4/22			
			C	30/04/22	30/4/22			
9	To demonstrate the function of olfactory nerve	12/12	A	05/05/22	5/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	06/05/22	6/5/22			
			C	07/05/22	07/5/22			
10	To examine the different types of taste.	12/12	A	05/05/22	05/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	06/05/22	06/5/22			
			C	07/05/22	07/5/22			
11	To demonstrate the visual acuity	12/12	A	12/05/22	12/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	13/05/22	13/5/22			
			C	14/05/22	14/5/22			
12	To demonstrate the reflex activity	12/12	A	12/05/22	12/5/22		S.Dwivedi, N. Vyas and S.Malviya, A Practical book	Completed
			B	13/05/22	13/5/22			

13	Recording of body temperature	12/12	C	14/05/22	14/5/22	of Human anatomy and Physiology V. Thakre Human anatomy and Physiology An experimental Handbou	Completed
			A	15/05/22	15/5/22		
			B	20/05/22	20/5/22		
14	To demonstrate positive and negative feedback mechanism.	12/12	C	21/05/22	21/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			A	19/05/22	19/5/22		
			B	20/05/22	20/5/22		
15	Determination of tidal volume and vital capacity.	12/12	C	21/05/22	21/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			A	26/05/22	26/5/22		
			B	27/05/22	27/5/22		
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	26/5/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	27/05/22	27/5/22		
			C	28/05/22	28/5/22		
17	Recording of basal mass index.	12/12	A	02/06/22	2/6/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	03/06/22	3/6/22		
			C	04/06/22	4/6/22		
18	Study of family planning devices and pregnancy diagnosis test.	12/12	A	02/06/22	2/6/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	03/06/22	3/6/22		
			C	04/06/22	4/6/22		
19	Demonstration of total blood count by cell analyzer.	12/12	A	09/06/22	9/6/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	10/06/22	10/6/22		
			C	11/06/22	11/6/22		
20	Permanent slides of vital organs and gonads.	12/12	A	09/06/22	9/6/22	S.Dwivedi, N. Vyas and S.Malviya, A Practical book of Human anatomy and Physiology	Completed
			B	10/06/22	10/6/22		
			C	11/06/22	11/6/22		

V. K. G. S.
Subject In-Charge

Pravin
HOD



S. N. D.
Principal
S. N. D. College of Pharmacy
Baramati, Tal. Yashwantrao Chavan, Dist. Solapur



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
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- Fax : (02559) 225042
- Web : www.sndpharmacy.com

Hon. Shri. Narendra B. Darade

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

Outward No. SDCOP/B.PH./M.PH./D.PH./20 21 - 20 22 /

Hon. Shri. Kishor B. Darade

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

Date : / / 20

ICT Enabled Tools Used For Effective Teaching-Learning process

Facilities:

Sr. No.	Name	Make
1	Liquid Crystal Projector	Epson: 02 Dell: 01
2	Desktop computer with internet connection	76
3	Learning Management	Digital Language Lab Software 1+10

Software:

Sr.No		Online Tools
1	Name of Faculty	Youtube Channel
	Ms. Waghmare S.A.	https://www.youtube.com/channel/UCzMlpJGWtkp9HXYz4ZrWSEw
	Ms. Bagdane S.B	https://youtu.be/Hx36TbR7szg
	Ms. Bhingare A.V	https://youtube.com/@PharmaMedicinalChemistry2021
	Mr. Darade R.B	https://youtube.com/@pravinsuruse2111
	Dr. Pravin Suruse	
2		Google Classroom

You Tube Channels

SAR OF LOCAL ANESTHETICS

Hydrophobic Intermediate Alkyl Chain Hydrophilic

- The structure of most of the useful local anesthetics contain hydrophilic and hydrophobic groups that are usually separated by an intermediate alkyl chain
- The hydrophilic group is usually a tertiary amine.
- The hydrophobic groups usually aromatic residues.
- In almost of all cases the linkage between the aromatic group and the intermediate alkyl chain is either of the ester or amide type and nature of the intermediate alkyl chain is either of the aliphatic or aromatic.

SAR local anaesthetics

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S Sonali Waghmare
40 subscribers

Five general groups of steroid hormones are discussed:

Typically, endocrinologists classify steroid hormones into five groups of molecules, based primarily on the receptor to which they bind:

1. Glucocorticoids; cortisol is the major representative in most mammals
2. Mineralocorticoids; aldosterone being most prominent
3. Androgens such as testosterone
4. Estrogens, including estradiol and estrone
5. Progestogens (also known as progestins) such as progesterone

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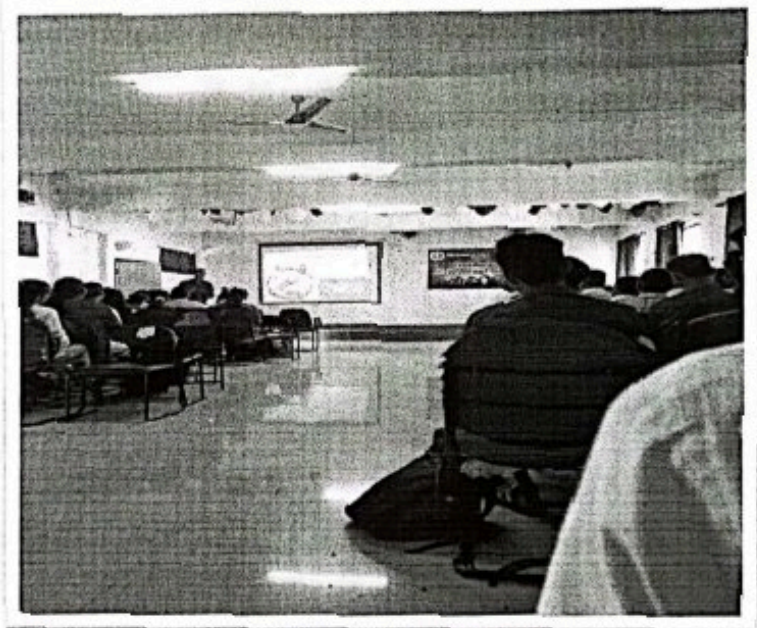
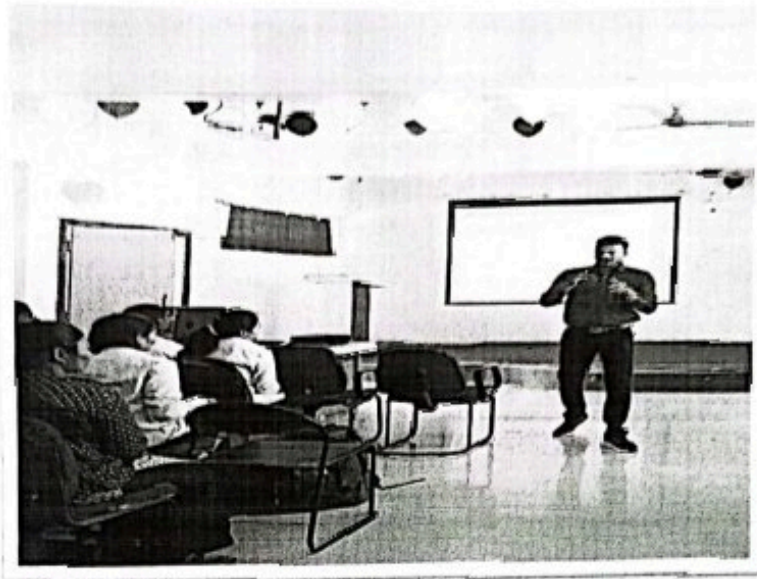
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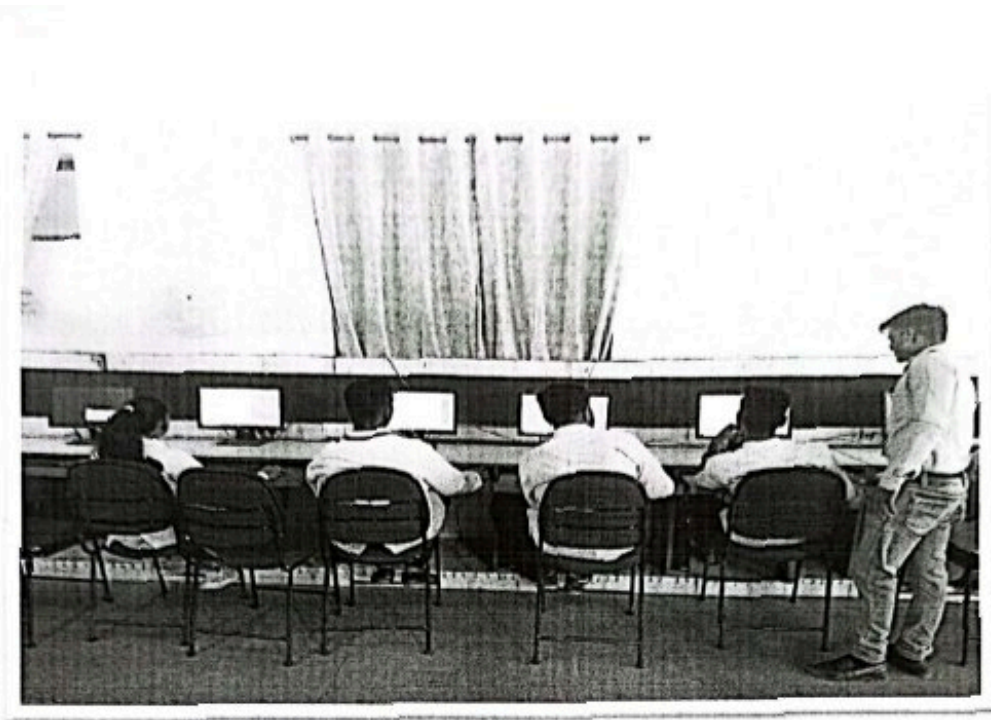
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