

Shri Neminath Jain Brahmacharyashram's (Jain Gurukul)

**SMT. K. B. ABAD HOMOEOPATHIC MEDICAL COLLEGE  
SHRI. R. P. CHORDIYA HOSPITAL AND  
BHAMASHAH SHRI. V. D. MEHTA, DEV-VIJAY  
P. G. INSTITUTE OF HOMOEOPATHY & RESEARCH CENTRE**



NEMINAGAR, CHANDWAD-423101 DIST.: NASIK (M.S.)

\* Tel. (02556) 252544

\* FAX (02556) 253282

\* E-mail : kbahmc\_nsk@rediffmail.com \* Visit us at http : // www.snjb.org

Recognised by Ministry of AYUSH & C.C.H., New Delhi & Affiliated to MUHS, Nashik

An ISO 9001 : 2008 Certified Institute

Jain Minority Institute

Prof. Dr. A. O. DAHAD

Accredited at B grade by NAAC

Principal

### ACADEMIC YEAR 2021-22

Academic Activities/Webinar/Workshop/CME/Activities in last One Year i.e.  
from 1<sup>st</sup> June 2021 to 31<sup>st</sup> May 2022

## DEPARTMENT OF PHYSIOLOGY & BIOCHEMISTRY

### Academic Planner / Advance Teaching Plan

Sr. No.	Topic	No. of Lecture required	Teaching Learning Method
1.	General physiology, Biophysics, Body fluids	10	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
2.	Biophysics – Bio – principles Units of concentrations of solutions.		
	Ions, electrolyte and non electrolyte, filtration		
	Diffusion		
	Osmosis		
	Ultra filtration		
	Dialysis		
	Surface tension, Adsorption		
	Hydro trophy		
	Donnan equilibrium		
Colloid			
3.	<b>Blood Composition and functions of blood</b>	24	
4.	Plasma proteins and its functions		
5.	ESR and its Significance		
6.	Co-agulation of blood		
7.	Importance of homeostasis		
8.	Blood volume and it's regulation		
9.	Bone marrow, functions of bone-marrow		
10.	Formed elements of blood, RBC – erythropoiesis, factor affecting erythro poiesis		



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Sr. No.	Topic	No. of Lecture required	Teaching Learning Method
11.	Haemoglobin – synthesis, types and functions		
12.	Anaemia – cause types and clinical importance		
13.	White blood corpuscles		
14.	Thrombocytes, functions of platelets		
15.	Blood groups – different types		
16.	Rh-blood group		
17.	Hazards of mismatched blood transfusion		
18.	Erythroblasto foetalis		
19.	Body fluids		
	<b>Cardio vascular system</b>		
20.	Anatomical consideration of heart, valves of heart Histology of cardio-vascular system		
21.	Special junctional tissue of heart		
22.	Heart block		
23.	Basic Properties of cardiac muscle and it's structure		
24.	Cardiac cycle		
25.	Cardiac cycle		
26.	Heart sounds		
27.	ECG – Introduction		
28.	ECG – leads, waves,		
29.	Nerves of heart and their action		
30.	Heart-rate & it's regulation		
31.	Cardiac output and it's regulation		
32.	Measurement and recording of blood pressure		
33.	Regulation of blood pressure		
34.	Radial pulse		
35.	Coronary circulation		
36.	Cerebral circulation		

Chalk – Talk method  
(black board / Lecture)  
Group Discussion  
Seminar  
Tutorials  
Debate  
Multimedia presentation

23



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Sr. No.	Topic	No. of Lecture required	Teaching Learning Method
37.	Pulmonary circulation and hepatic circulation	10	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
38.	<b>Spleen &amp; lymph</b>		
39.	Structure of spleen		
40.	Functions of spleen		
41.	Clinical aspect related to spleen		
42.	Lymphatic capillaries		
43.	Composition of lymph		
44.	Formation of lymph		
45.	Lymph node / lymph gland		
46.	Lymph gland – structure		
47.	Functions of lymph nodes		
48.	Clinical aspect or physiological importance of lymph		
49.	Reticulo-endothelial system Introduction		
50.	Classification of R.E.S.		
51.	Description of types of macrophage system		
52.	Functions of R.E.S.		
53.	Functions of R.E.S.		

Sr. No.	Topic	No. of Lecture required	Teaching Learning Method
	<b>Respiratory system</b>	24	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
1.	Introduction of respiratory system		
2.	Mechanism of breathing		
3.	Motion of Ribs		
4.	Spirometry		
5.	Lung volumes & capacities		
6.	Respiratory dead space		
7.	O <sub>2</sub> - transport		
8.	O <sub>2</sub> – dissociation curve		
9.	Carbon dioxide transport		
10.	Control of respiration		
11.	Nervous control & Chemical control		
12.	Hypoxia		
13.	Dyspnoea		
14.	Dysbarism		
15.	Asphyxia		
16.	Cynosis		
17.	Methods of artificial respiration.		



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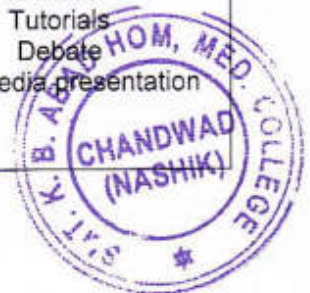
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	<b>Excretion</b>		
18.	Kidneys	18	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
19.	Juxtaglomerular apparatus		
20.	Renal blood flow		
21.	Function of kidney and glomerulus		
22.	Selective reabsorption		
23.	Tubular secretion		
24.	Formation of new substances		
25.	Renal functional test		
26.	Volume and characteristic of urine		
27.	Composition of urine		
28.	Glycosuria		
29.	Micturation		
30.	Mechanism of micturation		
31.	Mechanism of micturation		
32.	Vitamins & kidney		
33.	Reaction of urine		
34.	Factors controlling volume of urine		
35.	Abnormal volume of urine		
36.	Body temperature and skin. Factors affecting body temperature		
37.	Regulation of body temperature thermogenesis		
38.	Thermolysis		
39.	Nervous system and thermotaxis		
40.	Pyrexia (Fever)		
41.	Structure of skin and its function		

Sr. No.	Topic	No. of Lecture required	Method
	<b>Special senses vision – introduction</b>		
1.	Eyeball – layers	20	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
2.	Innermost layer – Retina		
3.	Optic – Pathway		
4.	Lesion of optic pathway		
5.	Mechanism of accommodation		
6.	Visual transduction		



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7.	Visual acuity				
8.	Errors of refraction				
9.	Hearing – introduction – Ear				
10.	Middle ear				
11.	Internal ear				
12.	Cochlea				
13.	Organ of corti				
14.	Auditory pathway				
15.	Deafness				
16.	Test for deafness rinnes & webers test				
17.	Taste (Gustation) - Tongue				
18.	Taste buds				
19.	Gustatory pathway				
20.	Olfaction - Introduction				
21.	Olfactory receptors				
22.	Physiology of Olfaction				
23.	Olfactory pathway				
24.	Abnormalities of olfactory sensations				
	<b>DIGESTIVE SYSTEM</b>			15	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
25.	Anatomical consideration of the digestive system				
26.	Functions of digestive system				
27.	Salivary glands				
28.	Mastication, Deglutition				
29.	Digestion				
30.	Stomach Functions of stomach				
31.	Composition & Functions of gastric juice				
32.	Movements of stomach digestion				
33.	Small intestine Pancreas – Mechanism of pancreatic Secretions				
34.	Composition & functions of pancreatic juice - digestion				
35.	Characters & composition of succus entricus				
36.	Mechanism of secretion of succus entricus Digestion				



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37.	Bile Composition of bile function of bile, bile salts / bile pigments		Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
38.	Mechanism of storage of bile. Movements of gall bladder. Functions of gall bladder		
39.	Movements of alimentary canal Movements of small intestine Movements of large intestine		
40.	Hormones of Gastric secretion		
41.	Tutorial on GIT		
42.	Seminar on GIT		
43.	Digestion & absorption of CHO, Proteins, Lipids		
	<b>ENDOCRINE SYSTEM</b>		
44.	Introduction Hormones Negative & positive feed Back mechanism		
45.	Anterior & posterior pituitary Anatomy / Histology		
46.	Anterior Pituitary hormones		
47.	Growth Hormone		
48.	Applied physiology		
49.	Posteriorpituitary Hormones Actions – ADH / Oxytocin		
50.	Applied physiology Diabetes. Insipidus.	15	
51.	Thyroid Gland Anatomical physiology		
52.	Synthesis of Hormones		
53.	Functions of hormones		
54.	Applied physiology Hyper Thyroidism		
55.	Hypo-thyroidism		
56.	Parathyroid Hormone		
57.	Calcium Metabolism & Regulation of serum calcium		
58.	Applied physiology		
59.	Adrenal gland Adrenal cortex		



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60.	Action /functions of – Glucocorticoids	8	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
61.	Mineralo corticoids Androgen		
62.	Applied Physiology		
63.	Adrenal Medulla		
64.	ANS Adrenalin & Nor adrenalin		
65.	Tutorial on Endocrine system		
66.	Tutorial on Endocrine system		
	<b>REPEODUCTIVE SYSTEM</b>		
67.	Reproductive physiology male		
68.	Testesteron / puberty		
69.	Spermatogenesis		
70.	Reproductive physiology - Female		
71.	Oestrogen / Progesterom		
72.	Menstrual cycle		
73.	Sex determination & Sex differentiation	11	
	<b>Bio-chemistry</b>		
74.	Introduction		
75.	Carbohydrate – classification		
76.	Digeton & absorbtion		
77.	Metabolism		
78.	Kreb cycle		
79.	Endocrine influence on CHO. Metabolism. Regulation of CHO. Metabolism.		
80.	Lipids Classsification		
81.	Essential fatty acids steroids		
82.	Digestion & absorbtion		
83.	Metabolism B-oxidation of fatty acids Bio synthesis of lipids		
84.	Regulation of lipid Metabolism.		
85.	Protein – Classification		
86.	Essential amino acids		



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	<b>Nitrogen balance, Edema</b>		
87.	Digestion & absorption The Process of protein synthesis		
88.	Vitamins		
89.	Fat soluble Vit. D Vit. E Vit. K		
90.	Water soluble Thiamine vit B1 Ribotlavin vit B2 Niacin vit B3 Pyridoxin vit B6 Pantothenic acid vit B5		
91.	Vit. B12	10	
92.	Rickets Scurvy Beriberi		
93.	Osteomalacia Pernicious anemia		
94.	Enzymes and co-enzymes Introduction, Definition		
95.	Classification – Properties		
96.	Co-enzymes Co-enzymes A		
97.	Summary of protein / fat / CHO. Metabolism.		
98.	Summary of vitamins		
99.	Tutorial on Metabolism		
100.	Seminar on Vitamins		
	<b>Nutrition</b>		
101.	Food Vs Nutrition Constituents of a Normal diet		
102.	Nutritional needs of the body in terms of calories	5	
103.	Balanced diet		
104.	Principles of diet planning		
105.	Applied aspect obesity, Kwashiorkar, Marasmus		
	<b>CNS</b>		
106.	Neurons	05	

Chalk – Talk method  
(black board / Lecture)  
Group Discussion  
Seminar  
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Sr. No.	Topic	No. of Lecture required	Method
107.	Properties of nerve fibres	20	Chalk – Talk method (black board / Lecture) Group Discussion Seminar Tutorials Debate Multimedia presentation
108.	Synapse		
109.	Reflex		
110.	Receptors		
111.	Brain Stem		
112.	Medulla oblongata		
113.	Pons		
114.	Midbrain		
115.	Cerebrum		
116.	Thalamus		
117.	Hypothalamus		
118.	Cerebral cortex		
119.	Basal ganglia		
120.	Limbic System		
121.	Ascending tract		
122.	Descending tract		
123.	Upper & Lower Motor lesions		
124.	Revision		
125.	Tutorial – CNS		
126.	Seminar – CNS		
127.	<b>NERVE MUSCLE PHYSIOLOGY</b>		
128.	Skeletal Muscle		
129.	Mechanism of contraction		
130.	Neuromuscular junction		
131.	Characteristic Properties of skeletal muscles		
132.	Characteristic Properties of skeletal muscles		
133.	Nerve muscle physiology		
134.	Tutorial – NMP		
135.	Seminar – NMP		



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Academic Details from 01<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021



Sr. No.	Details	Total Number in Hours
1.	Lecture	260
2.	Symposium	--
3.	Practical / Clinics	98
4.	Inter-Departmental Seminar	02
5.	Seminar	02
6.	Case Presentation	NA
7.	Journal Club	NA

Details of Lecture & Practical/Clinics

Sr. No.	Name of the Teacher	Designation	Lecturer in Hours	Practical / Clinics in Hours	Total
1.	Dr. S. S. Thorat	Professor	116	--	116
2.	Dr. M. H. Parewal	Associate Professor	120	--	120
3.	Dr. V. J. Chordiya	Guest Reader	25	--	25
4.	Dr. A. S. Jain	Assistant Professor	--	98	98

List of Inter Departmental Seminar

Sr. No. of Seminar	Date of Seminar	Topic	Conducted by
1.	21/06/2021	Heart & Cardiac cycle	Dr. S. S. Thorat
2.	05/10/2021	Anatomy of Hypothalamus & function of Hypothalamus	Dr. M. H. Parewal

List of Seminar

Sr. No. of Seminar	Date of Seminar	Topic	Conducted by
1.	28/06/2021	Kreb cycle	Dr. M. H. Parewal
2.	21/08/2021	Hearing pathway	Dr. S. S. Thorat

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### INFRASTRUCTURE AVAILABLE

S. No.	Particulars	Built up area available in Sq. M. for <u>100</u> student's intake	REMARK
1)	Physiology Department Room	169.25	
	Laboratories for Physiology	72.80	
	Laboratories for Biochemistry,	44.35	
	Museum	43.70	
	Demonstration room		



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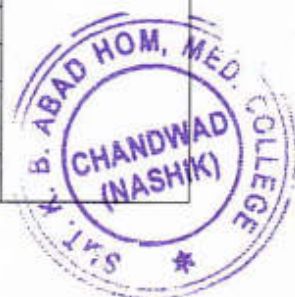
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**List of Equipment as per MSR**

Details of items of Equipment -III of HCC (MSR) etc available as per Schedule Regulations, 2013.				Remark
S No	Items	Required	Available in number	
1	<b>For human experiments:</b>			
1	Medical Microscope	25	37	
2	Equipment for ESR estimation/ Westergren's pipette for ESR on stand	25 (with spare pipettes)	30	
3	Haematocrit tubes	30 (with spares)	30	
4	Auto Analyzer or Semi Auto Aalyzer	01	01	
5	Haemoglobinometer Sahli	25(with spare)	30	
6	Haemocytometer	25(with spare)	30	
7	Sphygmomanometer	25	25	
8	Stethoscope	25	25	
9	Clinical thermometer (Digital)	25	25	
10	Knee hammer	25	25	
11	Tuning forks to test hearing (32-10000 hzs)	01 set	01 Set	
12	Stethographs or pneumographs	05	05	
13	Electrocardiograph (ECG Machine)	01	01	
14	Electronic Stop Watches 1/10 sec.	04	07	
15	Glass Distillation (double) apparatus	01	01	
16	Centrifuge (Medium speed)	02	02	
17	Colorimeter (photo electric)	02	02	
18	pH Meter electric	01	01	
19	Colour perception lantern (Edridge Green)	01	01	
20	Incubator	01	01	
21	Educational CD	As required	04	
	DVD	As required	04	
	Films	As required	20	
	Slides	As required	75	
	Models	As required	09	
	Audio Visual Aids	As required	CD's	
22	Perimeter	03	03	
23	Spirometer	01	01	
24	Tonometer	01	02	
25	Handgrip dynamometer	01	01	
26	Bicycle Ergometer	01	01	
	Animal Experiments demonstration shall be done with the help of Audio-visual Aids.		Available	
2	Number of additional items available		16	



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P. G. INSTITUTE OF HOMOEOPATHY & RESEARCH CENTRE**



ESTD - 1928

**SNJB**

NEMINAGAR, CHANDWAD-423101 DIST.: NASIK (M.S.)

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Recognised by Ministry of AYUSH & C.C.H., New Delhi & Affiliated to MUHS, Nashik

An ISO 9001 : 2008 Certified Institute

Jain Minority Institute

Prof. Dr. A. O. DAHAD

Accredited at B grade by NAAC

Principal

S No	Items	Required	Available in number	
3	<b>BIOCHEMISTRY</b>			<b>ANNEXURE</b>
1	Electronic/Monopan Balance	01	01	
2	Centrifuge	01	01	
3	Balance, chemical/ordinary	02	02	
4	Water baths	02	02	
5	Urinometer	25	28	
6	Hydrometer (0.700 to 1.00)	02	02	
7	Albuminometers	10	36	
8	Glucometer	10	10	
9	Thermometer	10	10	
10	Colorimeter	01	01	
11	Hot air oven 14"x14"x14" (Electric)	01	01	
12	Double Distillation apparatus Glass	01	01	
13	Centrifuge, medium speed, electric	01	01	
14	Glass ware like	As required		
	Pipette,		60	
	Beakers,		110	
	Burettes,		12	
	Wire gouge with asbestos,	As required	25	
	Centre hot plate,	As required	Available	
	Stove,	As required	01	
	Syringes,	As required	24	
	Burners,	As required	20	
	Rubber tubing	As required	Available	
	Stands clamps,	As required	30	
	Flash etc.	As required	20	
15	pH meter	01	01	
4	Number of additional items available		20- Instruments 80- Transparencies 91- Books	
5	Total number of Charts (Physiology & Biochemistry)		85	
6	Whether the Laboratories for Physiology & Biochemistry are Separate.		Yes	

*(Signature)*  
PRINCIPAL

SNJB's Smt. K. B. Abad Homoeopathic  
Medical College & Shri R. P. Chordiya  
Hospital & Bhamashah Shri V. D. Mehata Dev-Vijay  
P. G. Institute of - Homoeopathy & Research  
Centre, Chandwad, Dist. Nashik



MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES, NASHIK

DETAIL INFORMATION OF SUBJECTWISE TEACHING STAFF (Approved + Not Approved)

UG Degree / PG Degree /Ph.D.) As on 01/05/2022

Faculty : Homoeopathy





Subject : PHYSIOLOGY

Whether UG/UG+PG : UG

Name of the College : SNJB's Smt. K. B. Abad Homoeopathic Medical College, Shri. R. P. Chordiya Hospital & Bhamashah Shri. V. D. Mehta, Dev-Vijay P. G. Institute of Homoeopathy & Research Centre, Chandwad, (Nashik)

College Code : 4302

Intake Capacity : 100

S. N.	Name of the Teaching Staff	Designation	Mobile No.	E-mail. Id	Date of Birth	Whether belongs to Reserved category	Date of Appointment	Teaching Experience			Total Teaching Experience in years of PG	Type of Appointment Temp./Regular / Contractual	University Approval Status (Yes/No)	Details of PG teacher Recognised by MUHS (Yes/No)		Photograph with Signature
								Asst. Prof.	Asso. Prof.	Prof.				Temp / Regular	Letter No. & Date	
1	Dr. S. S. Thorat	Professor	9422766070	drsshthorat@gmail.com	15/06/1959	No	22/01/1990	07.00	06.04	18.11	32.03	Yes	Regular	Yes	-	
2	Dr. M. H. Parewal	Associate Professor	9326190046	mukeshparewal1977@gmail.com	13/09/1977	Yes SC	11/06/2002	06.04	11.06	-	19.10	Yes	Regular	Yes	-	
3	Dr. V. J. Chirdiya	Guest Reader	942337901		22/03/1960	No	01/06/2008	-	-	-	14.00	NA	Contractual	NA	-	
4	Dr. A. S. Jain	Assistant Professor	9970135277	akash7887@gmail.com	07/08/1987	No	01/03/2017	05.02	-	-	05.02	Yes	Regular	Yes	-	

Note : The College shall submit one hard copy & soft copy (In Excel Format) of the list from academic Online Teacher Database (OTD)

  
Signature of Principal with seal

**PRINCIPAL**

SNJB's Smt. K. B. Abad Homoeopathic Medical College & Shri R. P. Chordiya Hospital & Bhamashah Shri V. D. Mehta Dev-Vijay P. G. Institute of Homoeopathy & Research Centre, Chandwad, Dist. Nashik