

**Smt. Chandaben Mohanbhai Patel Homeopathic Medical College**  
**Department Of PATHOLOGY**

ADVANCE TEACHING PROGRAMME - II B.H.M.S. for the Academic Year 2023

**Total Number of Hours as per C.C.H.: 200 hours (THEORY)**

<u>Number of Lectures/ Hours</u>	<u>GENERAL PATHOLOGY</u>	<u>Name of Staff</u>
1.	Cell Injury	Dr. Bhanushali
2.	Cell Injury	Dr. Bhanushali
3.	Cell Injury	Dr. Bhanushali
4.	Cell Injury	Dr. Bhanushali
5.	Cell Injury	Dr. Bhanushali
6.	Cell Injury	Dr. Bhanushali
7.	Cell Injury	Dr. Bhanushali
8.	Inflammation	Dr. Bhanushali
9.	Inflammation	Dr. Bhanushali
10.	Inflammation	Dr. Bhanushali
11.	Inflammation	Dr. Bhanushali
12.	Inflammation	Dr. Bhanushali
13.	Inflammation	Dr. Bhanushali
14.	Wound healing and repair	Dr. Bhanushali
15.	Wound healing and repair	Dr. Bhanushali
16.	Wound healing and repair	Dr. Bhanushali
17.	Hemodynamic disorders	Dr. Bhanushali
18.	Hemodynamic disorders	Dr. Bhanushali
19.	Hemodynamic disorders	Dr. Bhanushali
20.	Hemodynamic disorders	Dr. Bhanushali

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21.	Hemodynamic disorders	Dr. Bhanushali
22.	Hemodynamic disorders	Dr. Bhanushali
23.	Hemodynamic disorders	Dr. Bhanushali
24.	Disorders of metabolism	Dr. Bedekar
25.	Disorders of metabolism	Dr. Bedekar
26.	Disorders of metabolism	Dr. Bedekar
27.	Amyloidosis	Dr. Bedekar
28.	Amyloidosis	Dr. Bedekar
29.	Disorders of pigmentation	Dr. Bedekar
30.	Disorders of pigmentation	Dr. Bedekar
31.	Neoplasia	Dr. Bhanushali
32.	Neoplasia	Dr. Bhanushali
33.	Neoplasia	Dr. Bhanushali
34.	Neoplasia	Dr. Bhanushali
35.	Neoplasia	Dr. Bhanushali
36.	Infection	Dr. Bedekar
37.	Infection	Dr. Bedekar
38.	Immunity	Dr. Bedekar
39.	Immunity	Dr. Bedekar
40.	Immunity	Dr. Bedekar

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41.	Immunity	Dr. Bedekar
42.	Immunity	Dr. Bedekar
43.	Immunity	Dr. Bedekar
44.	Immunity	Dr. Bedekar
45.	Hyperlipidemia and Lipidosis	Dr. Bedekar

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<u>Number of Lectures/ Hours</u>	<u>CLINICAL PATHOLOGY</u>	<u>Name of Staff</u>
1.	Clinical Pathology	Dr. Bedekar
2.	Clinical Pathology	Dr. Bedekar
3.	Clinical Pathology	Dr. Bedekar
4.	Clinical Pathology	Dr. Bedekar
5.	Clinical Pathology	Dr. Bedekar
6.	Clinical Pathology	Dr. Bhanushali
7.	Clinical Pathology	Dr. Bhanushali
8.	Clinical Pathology	Dr. Bhanushali
9.	Clinical Pathology	Dr. Bhanushali
10.	Clinical Pathology	Dr. Bhanushali

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<u>Number of Lectures/ Hours</u>	<u>SYSTEMIC PATHOLOGY</u>	<u>Name of Staff</u>
1.	Mal-nutrition and Deficiency Diseases	Dr. Bedekar
2.	Mal-nutrition and Deficiency Diseases	Dr. Bedekar
3.	Diseases of Cardiovascular system	Dr. Bhanushali
4.	Diseases of Cardiovascular system	Dr. Bhanushali
5.	Diseases of Cardiovascular system	Dr. Bhanushali
6.	Diseases of Cardiovascular system	Dr. Bhanushali
7.	Diseases of Cardiovascular system	Dr. Bhanushali
8.	Diseases of Cardiovascular system	Dr. Bhanushali
9.	Diseases of Cardiovascular system	Dr. Bhanushali
10.	Diseases of Cardiovascular system	Dr. Bhanushali
11.	Diseases of Cardiovascular system	Dr. Bhanushali
12.	Diseases of Cardiovascular system	Dr. Bhanushali
13.	Diseases of Blood vessels and lymphatics	Dr. Bhanushali
14.	Diseases of Blood vessels and lymphatics	Dr. Bhanushali
15.	Diseases of Blood vessels and lymphatics	Dr. Bhanushali
16.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
17.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
18.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
19.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
20.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali

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<u>Number of Lectures/ Hours</u>	<u>SYSTEMIC PATHOLOGY</u>	<u>Name of Staff</u>
21.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
22.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
23.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
24.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
25.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
26.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
27.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
28.	Diseases of the kidney and lower urinary tract	Dr. Bhanushali
29.	Diseases of Male reproductive system and Prostate	Dr. Bhanushali
30.	Diseases of Male reproductive system and Prostate	Dr. Bhanushali
31.	Diseases of Female Genitalia and Breast	Dr. Bhanushali
32.	Diseases of Female Genitalia and Breast	Dr. Bhanushali
33.	Diseases of Eye, ENT and Neck	Dr. Bhanushali
34.	Diseases of Eye, ENT and Neck	Dr. Bhanushali
35.	Diseases of Respiratory System	Dr. Bhanushali
36.	Diseases of Respiratory System	Dr. Bhanushali
37.	Diseases of Respiratory System	Dr. Bhanushali
38.	Diseases of Respiratory System	Dr. Bhanushali
39.	Diseases of Respiratory System	Dr. Bhanushali
40.	Diseases of Respiratory System	Dr. Bhanushali

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41.	Diseases of Respiratory System	Dr. Bhanushali
42.	Diseases of Respiratory System	Dr. Bhanushali
43.	Diseases of Respiratory System	Dr. Bhanushali
44.	Diseases of Respiratory System	Dr. Bhanushali
45.	Diseases of Respiratory System	Dr. Bhanushali
46.	Diseases of Respiratory System	Dr. Bhanushali
47.	Diseases of Oral cavity and Salivary glands	Dr. Bhanushali
48.	Diseases of G.I system	Dr. Saluja
49.	Diseases of G.I system	Dr. Saluja
50.	Diseases of G.I system	Dr. Saluja
51.	Diseases of G.I system	Dr. Saluja
52.	Diseases of G.I system	Dr. Saluja
53.	Diseases of G.I system	Dr. Saluja
54.	Diseases of G.I system	Dr. Saluja
55.	Diseases of liver, gall bladder and biliary ducts	Dr. Saluja
56.	Diseases of liver, gall bladder and biliary ducts	Dr. Saluja
57.	Diseases of liver, gall bladder and biliary ducts	Dr. Saluja
60.	Diseases of liver, gall bladder and biliary ducts	Dr. Saluja
61.	Diseases of liver, gall bladder and biliary ducts	Dr. Saluja
62.	Diseases of pancreas (including Diabetes mellitus)	Dr. Saluja

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<u>Number of Lectures/ Hours</u>	<u>SYSTEMIC PATHOLOGY</u>	
63.	Diseases of pancreas (including Diabetes mellitus)	Dr. Saluja
64.	Diseases of pancreas (including Diabetes mellitus)	Dr. Saluja
65.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
66.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
67.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
68.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
69.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
70.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
71.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
72.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
73.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
74.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
75.	Diseases of Haemopoietic system, Bone marrow and blood	Dr. Saluja
76.	Diseases of skin, soft tissue and Nervous system	Dr. Bhanushali
77.	Diseases of skin, soft tissue and Nervous system	Dr. Bhanushali
78.	Diseases of glands	Dr. Bhanushali



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<u>Number of Lectures/ Hours</u>	<u>SYSTEMIC PATHOLOGY</u>	
79.	Diseases of glands	Dr. Bhanushali
80.	Leprosy	Dr. Bedekar

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<u>Number of Lectures/ Hours</u>	<u>MICROBIOLOGY, VIROLOGY, PARASITOLOGY AND MYCOLOGY</u>	<u>Name of the Staff</u>
	<u>MICROBIOLOGY- 32 hours</u>	
1.	Introduction to Bacteriology, history and scope of medical microbiology	Dr. Bedekar
2.	Normal bacterial flora	Dr. Bedekar
3.	Pathogenicity of Micro-organisms	Dr. Bedekar
4.	Diagnostic Microbiology- Staining techniques- Gram staining, difference btw Gram +ve and -ve cell wall	Dr. Bedekar
5.	Diagnostic Microbiology- Staining techniques, AFB and Special staining techniques	Dr. Bedekar
6.	Diagnostic Microbiology-Identification and cultivation of bacteria, Culture media- definition, types and examples	Dr. Bedekar
7.	Bacterial structure, Growth and metabolism- definition, structure and classification	Dr. Bedekar
8.	Bacterial growth- Generation time, bacterial count Growth Requirements	Dr. Bedekar
9.	Bacterial genetics and bacteriophage- genes, codon, plasmids, conjugation	Dr. Bedekar
10.	Gram +ve aerobic and facultative anaerobic cocci – Staphylococcus	Dr. Bedekar
11.	Gram +ve aerobic and facultative anaerobic cocci – Streptococci	Dr. Bedekar

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<u>Number of Lectures/ Hours</u>	<u>MICROBIOLOGY, VIROLOGY, PARASITOLOGY AND MYCOLOGY</u>	
12.	Gram +ve anaerobic cocci- Pepto streptococci	Dr. Bedekar
13.	Gram –ve Aerobic cocci-N. Gonococci	Dr. Bedekar
14.	Gram –ve Aerobic cocci- N. Meningococci	Dr. Bedekar
15.	Gram –ve Aerobic cocci-Moraxella, Kinsella	Dr. Bedekar
16.	Gram +ve Aerobic bacilli- Corynebacterium	Dr. Bedekar
17.	Gram +ve Aerobic bacilli- Mycobacterium Tuberculosis	Dr. Bedekar
18.	Gram +ve Aerobic bacilli- Mycobacterium Leprae	Dr. Bedekar
19.	Gram +ve Aerobic bacilli- Shigella, Salmonella, E. coli	Dr. Bedekar
20.	Gram +ve anerobic bacilli- Clostridium	Dr. Bedekar
21.	Gram negative anerobic bacilli- Bacteroides fragilis, Fusobacterium	Dr. Bedekar
22.	Others- Vibrio	Dr. Bedekar
23.	Others- Treponema	Dr. Bedekar
24.	Others-Yersinia, Rickettsia,	Dr. Bedekar
25.	Others- Chlamydia, Pasteurella	Dr. Bedekar
26.	Diagnostic procedures in microbiology- blood and stool, Immunological, culture methods, animal inoculation	Dr. Bedekar
27.	Infection	Dr. Bedekar

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28.	Infection	Dr. Bedekar
29.	Infection	Dr. Bedekar
30.	Infection	Dr. Bedekar
31	Clinical Microbiology	Dr. Bedekar
32	Clinical Microbiology	Dr. Bedekar

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	<u>VIROLOGY-10 hours</u>	
1.	Introduction, general properties, classification, morphology and replication	Dr. Bedekar
2.	DNA viruses- Parvo Virus, Papova, Adeno	Dr. Bedekar
3.	DNA viruses- Hepadna virus	Dr. Bedekar
4.	DNA viruses- Herpes virus, varicella, CMV, EBV	Dr. Bedekar
5.	DNA viruses- pox virus- Variola, Vaccinia, Molluscum contagiosum	Dr. Bedekar
6.	RNA viruses- orthomyxoviruses- Enterovirus, Rhinovirus, Hepatovirus	Dr. Bedekar
7.	RNA viruses- Paramyxoviruses-Rubeola, Mumps, Influenza	Dr. Bedekar
8.	RNA viruses-Rubella, coronavirus, yellow fever, Arenavirus, Rota virus	Dr. Bedekar
9.	RNA viruses- Dengue, Chikungunya	Dr. Bedekar
10.	RNA viruses-Retrovirus- HIV	Dr. Bedekar

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<u>Number of Lectures/ Hours</u>	<u>MICROBIOLOGY, VIROLOGY, PARASITOLOGY AND MYCOLOGY</u>	<u>Name of Staff</u>
	<u>PARASITOLOGY- 20 Hours</u>	
1.	Introduction, Host Parasite relationship and classification	Dr. Bedekar
2.	Protozoa- Entamoeba Histolytica	Dr. Bedekar
3.	Protozoa- Giardia Lamblia	Dr. Bedekar
4.	Protozoa- Cryptosporidium Parvum	Dr. Bedekar
5.	Protozoa- Trichomonas Vaginalis	Dr. Bedekar
6.	Protozoa- Toxoplasma Gondi	Dr. Bedekar
7.	Protozoa- Trypanosoma species	Dr. Bedekar
8.	Protozoa- Plasmodium	Dr. Bedekar
9.	Protozoa- Leishmania Donovanii	Dr. Bedekar
10.	Cestodes- Taenia Saginata	Dr. Bedekar
11.	Cestodes- Taenia Solium	Dr. Bedekar
12.	Cestodes- Echinococcus Granulosus	Dr. Bedekar
13.	Trematodes- Schistosoma Haematobium, Schistosoma Mansoni	Dr. Bedekar
14.	Trematodes- Paragonimus Westermani	Dr. Bedekar
15.	Nematodes- Ancylostoma Duodenale	Dr. Bedekar
16.	Nematodes- Ascaris Lumbricoides	Dr. Bedekar
17.	Nematodes- Enterobius Vermicularis	Dr. Bedekar
18.	Nematodes- Wucheraria Bancrofti	Dr. Bedekar
19.	Nematodes- Trichuris Trichura	Dr. Bedekar
20.	Nematodes- Dracunculus Medenensis	Dr. Bedekar

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	<u>MYCOLOGY-3 hours</u>	
1.	Fungi- Classification	Dr. Bedekar
2.	True Pathogens	Dr. Bedekar
3.	Opportunistic pathogen	Dr. Bedekar

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TOPICS	NUMBER OF LECTURES
General Pathology	45
Clinical Pathology	10
Systemic Pathology	80
Bacteriology	32
Virology	10
Parasitology	20
Mycology	3
TOTAL	200

Prepared by

*P. Bedekar*

Dr. Prachi Bedekar  
Head of Department, Pathology  
DR. P. H. BEDEKAR  
HEAD OF PATHOLOGY DEPT.

Approved by

*P. F. Damania*  
Dr. P. F. Damania  
Principal

**DR. P. F. DAMANIA**  
Principal  
Smt. C.M.P. Hom. Med.  
College, Mumbai - 40.



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**Department OF Pathology and Microbiology**

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 Total Number of Hours as per C.C.H.:80 Hours (PRACTICAL/TUTORIAL)

Number of Practical / Hours	<u>Lab Practicals and Tutorials</u>
1.	Tutorial-1 Microscopy- types, uses and techniques, Electron microscopy and Phase contrast microscopy
2.	Histological techniques- <ul style="list-style-type: none"> <li>• Fixation, Embedding, sectioning and staining, Study of cells</li> <li>• Instruments- Needles-fine biopsy needle, lumbar puncture needle, sternal puncture needle, aspiration needle, paraffin block</li> </ul>
3.	Blood Collection <ul style="list-style-type: none"> <li>• Techniques</li> <li>• Instruments-Anticoagulant Bulbs, tourniquet</li> </ul>
4.	Instruments-Identification, uses, principle <ul style="list-style-type: none"> <li>• Sterilization and Disinfection-Hot air oven, autoclave, incubator</li> <li>• Haemometers</li> <li>• Hemocytometers</li> <li>• ESR tubes</li> <li>• Autoanalyzer</li> <li>• Centrifuge</li> </ul>
5.	Instruments- uses, principle <ul style="list-style-type: none"> <li>• Urinometer</li> <li>• Albuminometer</li> <li>• pH comparer</li> <li>• Water bath</li> <li>• Glucometer</li> </ul>
6.	Medias- Preparation of medias, Identification, types, uses, advantages and disadvantages
7.	Tutorial-2 Morphology and Classification of Bacteria
8.	Clinical- Estimation of Hemoglobin
9.	Histopathology- Fatty Degeneration, Hyaline Degeneration

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	Organs- Fatty Liver, leiomyoma
10.	Gram Staining
11.	Clinical- WBC Total
13.	Histopathology- Necrosis- caseous necrosis- TB Lymph node Organ- TB Lung
14.	ZNCF Staining/Sputum Examination
15.	Clinical- WBC differential, Disorders of WBC (Leukemias and others)
16.	Histopathology- Inflammation- Acute (Appendicitis) Organ- Appendicitis
17.	Microbiology Tutorial- Immunological and serological methods (Antigen- Antibody Reaction with examples)
18.	Clinical- RBC count, CBC reports
19.	Histopathology Chronic Inflammation- TB granuloma and granulation tissue
20.	Microbiology Tutorial- Staphylococci
21.	Clinical-Anemias
22.	Amyloidosis
23.	Microbiology Tutorial- Streptococci and Pneumococci
24.	Clinical- ESR and PCV
25.	Histopathology- Pigments, CPC lung and liver Organ- CVC Liver
26.	Microbiology Tutorial- Neisseria
27.	Clinical- Blood Grouping and transfusions
28.	Histopathology- circulatory- Hyperemia, thrombus
29.	Microbiology Tutorial- Corynebacterium
30.	Clinical- BT/CT and Hemorrhagic Disorders
31.	Histopathology- Neoplasia- Squamous cell, Lipoma, Leiomyoma Organs-Lipoma, Sq cell carcinoma and leiomyoma

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32.	Microbiology Tutorial- Mycobacteria
33.	Clinical-Urine Routine-Physical, Chemical
34.	Clinical- Urine Routine- Microscopy
35.	Clinical- Urine Report, Renal Function Tests, Urine culture report
36.	Histopathology Slides- Kidney Organs- Kidney
37.	Microbiology Tutorial- bacillus, e. coli, proteus, klebsiella
38.	Histopathology- Glands Organs-
39.	Microbiology Tutorial- Salmonella, Shigella, Vibrio
40.	Histopathology- GIT
41.	Organs GIT
42.	Clinical- Examination of Faeces-Physical, Chemical
43.	Clinical-Examination of Faeces-Microbiology
44.	Clinical-Stool Report, LFT
45.	Microbiology- Demonstration of WIDAL
46.	Histopathology- CVS Organs-
47.	Reports of CVS- Cardiac Profile
48.	Cardiac Prevention Profile
49.	Obesity Profile
50.	HTN Profile
51.	Diabetic profile
52.	Lipid Profile
53.	Histopathology- RS Organs

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54.	Histopathology- RS Organs
55.	Microbiology Tutorial- Virology
56.	Clinical- Sputum Examination, report
57.	Histopathology- Male Reproductive System
60.	Histopathology- Female Reproductive System
61.	Microbiology Tutorial- Spirochetes, actinomycetes
62.	Clinical- approach to infertility
63.	Histopathology- Glands
64.	Microbiology Tutorial- Clostridia, non-sporing anaerobes
65.	Clinical- Thyroid profile, Bone Profile
66.	Virology Tutorial-General
67.	Virology- HIV and Clinical-Reports in AIDS, Hep B
68.	Virology- COVID 19, RT PCR, RAT
69.	Clinical- Bone Profile
70.	Clinical- PUO
71.	Parasitology- Slides and Specimens -Protozoa
72.	Parasitology- Slides and Specimens –Cestodes
73.	Parasitology- Slides and Specimens- Trematodes
74.	Parasitology- Slides and Specimens- Nematodes, NIH swab
75.	Microbiology Tutorial- Pseudomonas, Yersinia, Hemophilus
76.	Tutorial- Mycology
77.	Test/Revision Term 1
78.	Test/Revision Term 2

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79.	Test/Revision Final Exam
80.	Departmental Seminar

Prepared by

*P. Bedekar*

Dr. Prachi Bedekar  
Head of Department, Pathology  
DR. P. H. BEDEKAR  
HEAD OF PATHOLOGY DEPT.

Approved by

*P. F. Damania*

Dr. P. F. Damania  
Principal

**DR. P. F. DAMANIA**  
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