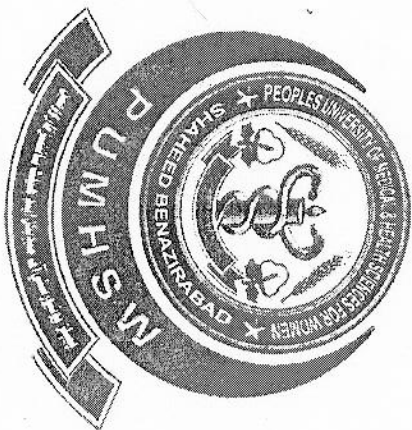


DEPARTMENT OF PHARMACOLOGY & THERAPEUTICS

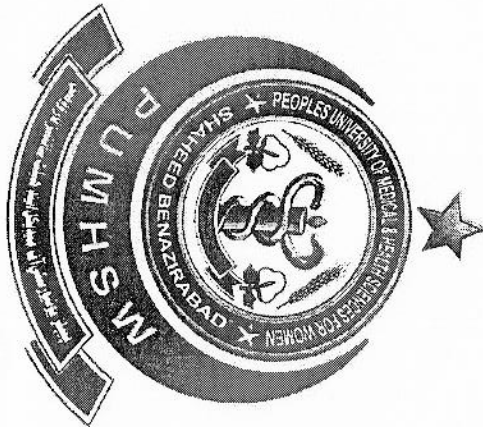


21/8/15

*CURRICULUM FOR UNDERGRADUATE 3<sup>rd</sup> YEAR MBBS  
M.PHIL PHARMACOLOGY MAJOR & MINOR  
(2015)*

PEOPLES UNIVERSITY OF MEDICAL & HEALTH SCIENCES FOR  
WOMEN NAWABSHAH SHAHIED BENAZIRABAD

**DEPARTMENT OF PHARMACOLOGY & THERAPEUTICS**



**CURRICULUM FOR M.PHIL PHARMACOLOGY  
MINOR**

**PEOPLES UNIVERSITY OF MEDICAL & HEALTH SCIENCES FOR  
WOMEN NAWABSHAH SHAHEED BENAZIRABAD  
2015**



**PHARMACOLOGY & THERAPEUTICS DEPARTMENT**  
**PEOPLES UNIVERSITY OF MEDICAL**  
**& HEALTH SCIENCES FOR WOMEN, SHAHEED BENAZIR ABAD**  
**CURRICULUM M.PHIL PHARMACOLOGY MINOR**

S. No:	CHAPTERS	NUMBERS OF LECTURES
1.	General Pharmacology.	21
2.	Autonomic Nervous System	14
3.	Cardio Vascular System.	10
4.	Diuretics	03
5.	Blood	03
6.	Respiratory System	03
7.	GIT	03
8.	NSAIDS	04
9.	Gout	02
10.	Migraine	01
11.	Drug treatment of Rheumatoid Arthritis	01
12.	Endocrine	01
13.	Central Nervous System	08
14.	Antimicrobial	13
15.	Therapeutics	10
	Total Lectures	09
		100



**PHARMACOLOGY LECTURES**  
**M.PHIL MINOR      FOUR LECTURES/ WEEK**

LEC #	TOPICS	Numbers of Lectures
	<b>General Pharmacology</b>	
	<b>A. PHARMACOKINETICS</b>	
1. ✓	Introduction of Pharmacology	01
2. ✓	Terminology	01
3.	Routes of Drug Administration (Enteral)	01
4.	Routes of Drugs Administration (Par-Enteral)	01
5.	Absorption of Drugs (process)	01
6.	Factors modifying Drug Absorption	01
7.	Drug Distribution & Reservoirs	01
8.	Bioavailability, Half Life & First pass Effect	01
9.	Drug Biotransformation Phase I Reactions	01
10.	Drug Biotransformation Phase II Reactions	01
11.	Drug Excretion	01
	<b>B. PHARMACODYNAMICS</b>	
12.	Introduction to Pharmacodynamics	01
13.	Receptors & Post Receptors Molecular Mechanism of Drug Action	01
14.	Mechanism of Drug Action other than Mediated through Drug Receptors	01
15.	Factors Modifying drug Action I	01



16.	Factors Modifying drug Action II	01
17.	Dose Response curves	01
18.	Therapeutic Index & Steady State Concentration of Drug	01
19.	Adverse drug reaction I	01
20.	Adverse drug reaction II	01
21.	Drug-Drug Interactions	01
22.	<b>PERIODICAL TEST 01</b>	01
	<b>Autonomic Nervous System (ANS)</b>	
23.	Introduction to ANS (Synthesis, Release & Fate of Neurotransmitters)	
24.	Cholinomimetic (Directly Acting)	01
25.	Cholinomimetic (Indirectly Acting & reversible)	01
26.	Cholinomimetic (Indirectly Acting & irreversible)	01
27.	Anti-cholinergic (Anti-muscarinic)	01
28.	Neuromuscular Blockers (Depolarizing)	01
29.	Neuromuscular Blockers (Non-Depolarizing)	01
30.	Sympathomimetic I	01
31.	Sympathomimetic II	01
32.	Sympatholytic (Alpha Blockers)	01
33.	Sympatholytic (Beta Blockers I)	01
34.	Sympatholytic (Beta Blockers II)	01
35.	Adrenergic Neuron Blockers	01
36.	Drug treatment of Glaucoma	01



<b>CARDIO VASCULAR SYSTEM (CVS)</b>		
37.	Antihypertensive Drugs (Centrally Acting Agents & Role of Diuretics)	01
38.	Antihypertensive Drugs (Alpha Blocker, Beta Blocker)	01
39.	Calcium Channel Blockers	01
40.	Angiotensin System Blockers.	01
41.	Vasodilators (Direct Acting)	01
42.	Anti-Anginal Drugs	01
43.	Drug treatment of Congested Cardiac Failure I	01
44.	Drug treatment of Congested Cardiac Failure II	01
45.	Anti-arrhythmic Drugs I	01
46.	Anti-arrhythmic Drugs II	01
47.	<b>PERIODICAL TEST 02</b>	
<b>DIURETICS</b>		
48.	Osmotic, & Carbonic Anhydrase Inhibitor Diuretics	01
49.	Loop Diuretics, Thiazide Diuretics	01
50.	K <sup>+</sup> sparing Diuretics	01
<b>BLOOD</b>		
51.	Anti-coagulant Drugs	01
52.	Antihyperlipidemic Drugs	01
53.	Drugs used for Anaemias	01
<b>RESPIRATORY SYSTEM</b>		
54.	Antitussives, Expectorants & Mucolytic Agents.	01

55.	Drug treatment of Bronchial Asthma I	01
56.	Drug treatment of Bronchial Asthma II	01
	<b>GIT</b>	
57.	Emetics & Anti-Emetic agents	01
58.	Drug Treatment of Acid Peptic Disease I (Antacids & H2 Receptor Antagonist)	01
59.	Drug Treatment of Acid Peptic Disease II (Proton Pump Inhibitors)	01
60.	Laxative & Purgatives	
	<b>PERIODICAL TEST 03</b>	
61.		01
62.	<b>NSAIDs I</b>	01
63.	<b>NSAIDs II</b>	01
64.	<b>Drug Treatment of Gout</b>	01
65.	<b>Drug Treatment of Migraine</b>	01
66.	<b>Drug treatment of Rheumatoid Arthritis</b>	01
	<b>ENDOCRINES</b>	
67.	Corticosteroids I	01
68.	Corticosteroids II	01
69.	Drugs used for Thyroid Disorder I	01
70.	Drugs used for Thyroid Disorder II	01
71.	Drugs used for Diabetic Mellitus I	01
72.	Drugs used for Diabetic Mellitus II	01



73.	Contraceptives	01
74.	Uterine Muscle Relaxants & Contractors	01
	<b>CENTRAL NERVOUS SYSTEM (CNS)</b>	
75.	Sedative & Hypnotics (Barbiturates)	01
76.	Sedative & Hypnotics (Benzodiazepines)	01
77.	Alcohol	01
78.	Opioids Agonist & Antagonist	01
79.	Anti-Psychotic drugs (Typical & Atypical)	01
80.	Drug Anti-Depressant I	01
81.	Drug Anti-Depressant II	01
82.	Anti-Epileptic Drugs I	01
83.	Anti-Epileptic Drugs II	01
84.	Anti-Parkinson Drugs	01
85.	Drug General Anesthetic I	01
86.	Drug General Anesthetic II	01
87.	Local Anesthetic	01
88.	<b>PERIODICAL TEST 04</b>	
	<b>Antimicrobials</b>	01
89.	Introduction to Antimicrobials	01
90.	Penicillin	01
91.	Cephalosporin	01
92.	Aminoglycosides	01



93.	Tetracycline	01
94.	Macrolides	01
95.	Chloramphenicol	01
96.	Flouroquinolones	01
97.	Sulphonamides	01
98.	Anti-septic & Disinfectants	01
	<b>Therapeutics</b>	
99.	Anti-Tubercular drugs I	
100.	Anti-Tubercular drugs II	01
101.	Chemotherapy of Malaria	01
102.	Chemotherapy of Amoebiasis	01
103.	Anti-fungal Drugs	01
104.	Anti-helminthic Drugs	01
105.	Anti-Viral Drugs	01
106.	Chemotherapy of Malignancy I	01
107.	Chemotherapy of Malignancy II	01
108.		01
109.		

**PERIODICAL TEST 05**  
**COMPREHENSIVE TEST**



**PHARMACOLOGY DEMONSTRATION**  
**PART - I M.PHIL**      **MINOR PRACTICALS**

S.No:	TOPICS
1.	Abbreviations
2.	Weight Measurements & Metric System & Conversion Table
3.	Calculations & Preparation of 10% Dextrose Water Solution & Normal Saline Solution
4.	Calculation & Preparation of 5% Dextrose Saline Solution
5.	To Preparation & Dispense 90ml of Carminative Mixture
6.	To Preparation & Dispense 90ml of Castor Oil Emulsion
7.	To Preparation & Dispense 20 gm. of Sulfur Ointment
8.	To Observe effects of Pilocarpine & Atropine on Rabbits Eye
9.	To Observe effects of Adrenaline & Xyllocaine on Rabbits Eye
10.	Biostatistics & Calculation of Mean, Mode & Median values of given Data
11.	Introduction to Animal Experimental Equipment's
12.	Preparation of Tyrode Nutritional Solution
13.	Observe the Normal Movements of Isolated Intestine of Rabbit on Power Lab.
14.	Observe the Effects of Histamine on Isolated piece of Rabbits Intestine on Power Lab: Recorded System
15.	Observe the Effects of Anti-histamine on Histamine stimulated movements of Isolated piece of Rabbits Intestine on Power Lab: Recorded System
16.	Parts of Prescription Writing & Prescription Writing for Angina Pectoris <b>PRACTICAL TEST 02</b>



**EXAMINATION M.PHIL. PHARMACOLOGY MINOR PART - I**

**(Conducted by Controller of Examination P/MSHW Nawabshah):**

- |                      |   |                   |   |     |
|----------------------|---|-------------------|---|-----|
| 1. Paper - I BCQs    | = | 75'               | = | 100 |
| 2. Paper - II Theory | = | Long Question 10  | = | 100 |
| 3. OSPE Examination  | = | Static Station 10 | = | 100 |
|                      | = | VIVA-VOCE         | = | 100 |