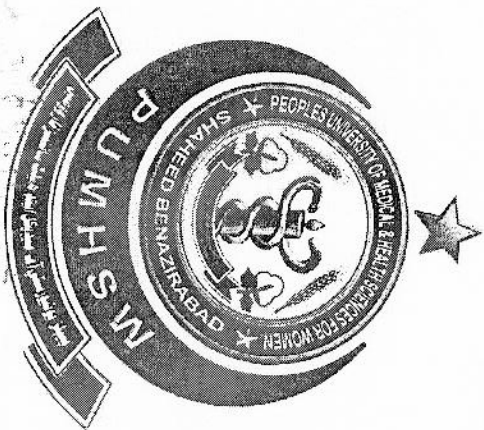
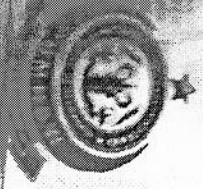


DEPARTMENT OF PHARMACOLOGY & THERAPEUTICS



*CURRICULUM FOR M.PHIL PHARMACOLOGY MAJOR*  
*PART - I*

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



**PHARMACOLOGY & THERAPEUTICS DEPARTMENT**  
**PUMHSW Nawabshah**  
**SHAHEED BENAZIR ABAD**  
**Curriculum Part - I, M.Phil Major**

**TEACHING FACULTY**

Chairman		
Prof. Dr. Manzoor Ahmed Unar		
Professor		
Prof. Dr. Chulam Rasool Mashori		
Associate Professor		
Dr. Gulshan Ara Jalbani		
Assistant Professors		
Dr. Kamesh Kumar Tanwani		
Abdul Sattar Khoso		
Tutors		
A. Nisar Iqbal Wagan	11	Dr. Dhanesh Kumar
Dr. Mehtabque Ahmed Memon	12	Dr. Yasmeen Shaikh
Dr. Noor Iqbal	13	Dr. Gunesh Kumar
Dr. Farah Ali Raufhani	14	Dr. Farzana Idrees Memon
Dr. Ahsan Sadiq		



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**& HEALTH SCIENCES FOR WOMEN**  
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CHAPTERS	NUMBERS OF LECTURES
General Pharmacology.	21
Autonomic Nervous System	14
Cardio Vascular System.	10
Diuretics	03
Diopid	02
Statins	03
Respiratory System	03
	04
	03
	04
<b>Total Lectures</b>	<b>60</b>

11004

**PHARMACOLOGY LECTURES**  
**PART - I M.PHIL MAJOR**  
**FOUR LECTURES / WEEK**

TOPICS	Numbers of Lectures
<b>General Pharmacology</b>	
<b>A. PHARMACOKINETICS</b>	
Introduction of Pharmacology	01
Terminology	01
Routes of Drug Administration (Enteral)	01
Routes of Drugs Administration (Par-Enteral)	01
Absorption of Drugs (process)	01
Factors modifying Drug Absorption	01
Distribution & Reservoirs	01
Half-life & First pass Effect	01
Drug Metabolism Phase I Reactions	01
Drug Metabolism Phase II Reactions	01
Drug Excretion	01
<b>B. PHARMACODYNAMICS</b>	
Pharmacokinetics to Pharmacodynamics	01
★ Post Receptors Molecular Mechanism of Drug	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>	
	<b>Autonomic Nervous System (ANS)</b>	
23.	Introduction to ANS (Synthesis, Release & Fate of Neurotransmitters)	01
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
12.	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	
	<b>CARDIO VASCULAR SYSTEM (CVS)</b>	01
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	
47.	<b>PERIODICAL TEST 02</b>	
	<b>DIURETICS</b>	01
48.	Osmotic, & Carbonic Anhydrase Inhibitor Diuretics	01
49.	Loop Diuretics, Thiazide Diuretics	01
50.	K <sup>+</sup> sparing Diuretics	



	<b>BLOOD</b>	
51.	Anti-coagulant drugs	01
52.	Antihyperlipidemic Drugs	01
53.	Drugs used for Anemias	01
	<b>AUTACCOIDS</b>	
54.	Prostaglandins & Serotonin	01
55.	H1- Agonist & Antagonist	01
	<b>RESPIRATORY SYSTEM</b>	
56.	Antitussives, Expectorants & Mucolytic Agents.	01
57.	Drug treatment of Bronchial Asthma I	01
58.	Drug treatment of Bronchial Asthma II	01
	<b>GIT</b>	
59.	Emetics & Anti-Emetics	01
60.	Drug Treatment of Acid Peptic Disease I (Antacids & H2 Receptor Antagonist)	01
61.	Drug Treatment of Acid Peptic Disease II (Proton Pump Inhibitors)	01
62.	Laxative & Purgatives	01
63.	<b>PERIODICAL TEST 03</b>	
	<b>COMPREHENSIVE TEST</b>	

**PHARMACOLOGY DEMONSTRATIONS**  
**PART - I M.PHIL MAJOR**

S. No:	TOPICS
1.	Abbreviations
2.	Weight Measurements & Metric System & Conversion Table
3.	Calculations & Preparation of 5% & 10% Dextrose Water Solution
4.	Calculation & Preparation of Normal Saline Solution
5.	Calculation & Preparation of Half Strength Normal Saline Solution
6.	Calculation & Preparation of 5% Dextrose Saline Solution
<b>PRACTICAL TEST 01</b>	
7.	To Preparation & Dispense 90ml of Carminative Mixture
8.	To Preparation & Dispense 90ml of Castor Oil Emulsion
9.	To Preparation & Dispense 90ml Bismuth Kaolin Suspension
10.	To Preparation & Dispense 20 gm. of Sulfur Ointment
11.	To Observe effects of Pilocarpine on Rabbits Eye
12.	To Observe effects of Atropine on Rabbits Eye
13.	To Observe effects of Adrenaline on Rabbits Eye
14.	To Observe effects of Xylocaine on Rabbits Eye
15.	To Identify the Given Unknown drug by Observing effects on Rabbits Eye
<b>PRACTICAL TEST 02</b>	



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

**(Conducted by Controller of Examination PUMHSW Nawabshah):**

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