M.PHIL PHARMACOLOGY COURSE

<table>
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<tr>
<th>S.NO</th>
<th>COURSE CODE</th>
<th>TITLE</th>
<th>CREDIT HOURS</th>
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<tr>
<td>1</td>
<td>PHA 729</td>
<td>GENERAL PHARMACOLOGY</td>
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<tr>
<td>2</td>
<td>PHA 730</td>
<td>ANS PHARMACOLOGY</td>
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<td>PHA 731</td>
<td>CNS PHARMACOLOGY</td>
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<td>GIT, HORMONES AND DUG ACTING ON UTERUS</td>
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<td>PHA 733</td>
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<td>6</td>
<td>PHA 734</td>
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<td>PHA 735</td>
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<td>PHA 736</td>
<td>KIDNEY, CVS AND RESPIRATORY SYSTEMS PHARMACOLOGY</td>
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**OPTIONAL COURSES**

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<td>PHYSIOLOGY</td>
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<td>BIOCHEMISTRY</td>
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Course Objectives:
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

Course Contents:
Pharmacogenetics: Introduction to pharmacokinetics, Influence of genetics on pharmacokinetics of drugs, Influence of genetics on pharmacodynamics.

Recommended Readings:
- Katzung
- Dale
- Lippincott

Journals:
- Journal of Gandhara Medical and Dental Sciences
**PHA 730 ANS PHARMACOLOGY**

**Course Objectives:**
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

**Course Contents:**
Cholinergic agonists, Cholinergic antagonists, Adrenergic agonists, Adrenergic antagonists.

**Recommended Readings:**
- Katzung
- Dale
- Lippincott

**Journals:**
- Journal of Gandhara Medical and Dental Sciences

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**PHA 731 CNS PHARMACOLOGY**

**Course Objectives:**
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

**Course Contents:**
Drugs for Neurodegenerative Diseases, Anxiolytic and Hypnotic Drugs, Antidepressants, Antipsychotic Drugs, Drugs for Epilepsy, Anesthetics, Opioids, Drugs of abuse, CNS Stimulants.

**Recommended Readings:**
- Katzung
- Dale
- Lippincott

**Journals:**
- Journal of Gandhara Medical and Dental Sciences
PHD 732, HORMONES AND DRUG ACTING ON UTERUS
2+0 CREDIT HOURS

Course Objectives:
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

Course Contents:
Drug used in peptic ulcer disease, Antacids, Gastric antisecretory drugs, mucosal protective drugs, Drugs promoting gastrointestinal motility, Antiemetic agents, Laxatives, Antidiarrheal drugs, used in treatment of inflammatory bowel disease. Pituitary and Thyroid, Drugs for Diabetes, Estrogens and Androgens, Adrenal Hormones, Drugs for Obesity.

Recommended Readings:
• Katzung
• Dale
• Lippincott

Journals:
• Journal of Gandhara Medical and Dental Sciences

PHD 733, CLINICAL PHARMACOLOGY
2+0 CREDIT HOURS

Course Objectives:
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

Course Contents:
Drugs commonly involved in self-poisoning, Drug reactions, Drug-drug interactions, Drug induced syndromes, Teratogens, Management of drug poisoning, Absorption, Distribution, and excretion of toxicants, Evaluation of safety, Inhalation toxicants, the toxic effects of heavy metals, the toxic effects of pesticides, water and soil pollutants, Undesired effect of radiation and radioactive materials, Regulatory toxicology.

Recommended Readings:
• Katzung
• Dale
• Lippincott

Journals:
• Journal of Gandhara Medical and Dental Sciences
**PHARMACOLOGY 734 CHEMOTHERAPY**  
2+0 CREDIT HOURS

**Course Objectives:**
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

**Course Contents:**
Principles of Antimicrobial Therapy, Cell Wall Inhibitors, Protein Synthesis Inhibitors Quinolones, Folic Acid Antagonists, and Urinary Tract Antiseptics. Antimycobacterial Drugs Antifungal Drugs, Antiprotozoal Drugs, Anthelmintic Drugs, Antiviral Drugs, Anticancer Drugs Immunosuppressant.

**Recommended Readings:**
- Katzung
- Dale
- Lippincott

**Journals:**
- Journal of Gandhara Medical and Dental Sciences

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**PHARMACOLOGY 735 ANTI-INFLAMMATORY AND AUTACOIDS**  
2+0 CREDIT HOURS

**Course Objectives:**
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

**Course Contents:**
Non-steroidal anti-inflammatory drugs, Diseases modifying anti rheumatic agents, drugs used for treatment of gout.

**Recommended Readings:**
- Katzung
- Dale
- Lippincott

**Journals:**
- Journal of Gandhara Medical and Dental Sciences
Course Objectives:
To learn subject of pharmacology, research skills to carry out and present a piece of original research under supervision of supervisor. At the completion of course award the degree of master of philosophy in the field of pharmacology.

Course Contents:

Recommended Readings:
- Katzung
- Dale
- Lippincott

Journals:
- Journal of Gandhara Medical and Dental Sciences