

## PHARMACOLOGY II (PHL 451 (2 + 1))

**Pre-requisite:** PHL 351, PHCV 372

### **Course Description:**

This course deals with the pharmacological actions, therapeutic uses, mechanisms of action, adverse effects, contraindications and drug interactions of:

Centrally acting drugs such as stimulants, sedatives, hypnotics, anxiolytics, general anaesthetics, anti-epileptics, anti-emetics, anti-Parkinsonians, anti-psychotics, opioid analgesics, antidepressants and anti-manics. It also covers the non-opioid analgesics, antipyretics, anti-inflammatory drugs and others which are used for treatment of some skin diseases and diarrhoea.

The practical part of the course deals with some in vivo experiments demonstrating the effects of the above mentioned drugs. It also includes some drug profiles to be presented by the students.

<b>Course Contents:</b>	<b>Hours</b>
1. Central Neurotransmitters and Central Nervous System Stimulants	3.0
2. Sedatives, Hypnotic and anxiolytics.	2.0
3. Anti-epileptics	2.0
4. General Anaesthetics	2.0
5. Antipsychotics	2.0
6. Antidepressants and Antimaniacs	2.0
7. Anti-Parkinsonians	1.0
8. Opioids and Antitussives	3.0
9. Non-opioid Analgesics/Antipyretics/Anti-inflammatory drugs.	3.0
10. Emetics and Anti-emetics	1.0
11. Antidiarrhoea drugs	1.0
12. Anti-acne drugs	1.0
13. Antipsoriasis drugs	1.0
14. Melanizing and de-melanizing drugs	1.0
15. Topically-used antifungal drugs	1.0
Examinations:	<u>2.0</u>
Total Hours:	<u>28.0</u>

**PHARMACOLOGY 451 (2 + 1)**  
**Practical Experiments**

<u><b>Experiment No.</b></u>	<u><b>Title</b></u>
1.	Demonstration of the Central Nervous System stimulant effect of some drugs using frogs, rats and mice and the effect of some anticonvulsant drugs.
2.	Demonstration of the Central Nervous System depressant effects of some drugs using rats and mice.
3.	Demonstration of the antipsychotic and anxiolytic effects of some drugs.
4.	Demonstration of the analgesic effect of some drugs using various methods such as the hot-plate, tail-flick response and writhing in mice.
5.	Demonstration of the anti-inflammatory effect of some drugs using rat's paw oedema model.
6.	Study of the local anaesthetic activity of some drugs using the frog-limb withdrawal reflex, rabbit corneal reflex and guinea-pig intradermal wheal.