Course Description Form

1. Course Name:
Pharmacology II (Theoretical+ Practical)
2. Course Code:
Phpht25-414
3. Semester / Year:
First semester/2025-2026
4. Description Preparation Date:
01/9/2025
5. Available Attendance Forms:
Excel sheet
6. Number of Credit Hours (Total) / Number of Units (Total)
3 hours Theoretical + 2 hours Practical /4 units
7. Course administrator's name
Theoretical
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Practical
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8. Course Objectives

Course Objectives Basic Knowledge about the pharmacology of drugs used for various systemic diseases including, CNS, CVS,	• Providing students with theoretical knowledge al the mechanism of action of drugs and the side eff they may cause.

GIT, and Respiratory system.	• Training students and developing their skills in practical aspects of pharmacology.

9. Teaching and Learning Strategies

Strategy	Theoretical lectures Assessment exams Homework assignments Practical laboratory sessions Discussions

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3+2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should understand the importance of knowing the clinical uses of drugs.	Introduction to CNS drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discussion
2	3+2	A1. The student should understand the mechanism of action of drugs in detail. A2. The student should understand the importance of knowing the clinical uses of drugs. B1. The student should be aware of the side effects of drugs.	Antidepressant	- In-person lectures - Blended learning -Laboratory experiments.	- Written exams - Seminars and discussion
3	3+2	A1. The student should understa the mechanism of action of drug detail. A2. The student should recogniz the importance of knowing the clinical uses of drugs. B1. The student should identify t side effects of drugs. B2. The student should analyze c interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Antipsychotics	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discussion
4	3+2	A1. The student should understa the mechanism of action of drug detail. A2. The student should recogniz the importance of knowing the clinical uses of drugs. B1. The student should identify t side effects of drugs. B2. The student should analyze c interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the	Opioid drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discussion

		mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.			
5	3+2	A1. The student should understa the mechanism of action of drug detail. A2. The student should recogniz the importance of knowing the clinical uses of drugs. B1. The student should identify t side effects of drugs. B2. The student should analyze c interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Anaesthetic drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
6	3+2	A1. The student should understa the mechanism of action of drug detail. A2. The student should recogniz the importance of knowing the clinical uses of drugs. B1. The student should identify t side effects of drugs. B2. The student should analyze c interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	CNS stimulants	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
7	3+2	A1. The student should understa the mechanism of action of drug detail. A2. The student should recogniz the importance of knowing the clinical uses of drugs. B1. The student should identify t side effects of drugs. B2. The student should analyze c interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Anti-Parkinson's drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
8	**Mid-term exam**				
9	3+2	A1. The student should unders	Antiepileptics	- In-person lectures	- Written exams

		the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.		- Blended learning -Laboratory experiments	- Seminars and discus ion
10	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Sedative & hypnotics drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
11	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Antihypertensive drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
12	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz	Antianginal drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion

		drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.			
13	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Heart failure drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
14	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment regimens that are appropriate for the patient's clinical condition.	Antiarrhythmic drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion
15	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should utilize their knowledge of pharmacology, including the mechanism of action and side effects of drugs, to plan effective and safe treatment	Drugs acting on respiratory system	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion

		regimens that are appropriate for the patient's clinical condition.			
16	3+2	A1. The student should unders the mechanism of action of dru in detail. A2. The student should recogn the importance of knowing the clinical uses of drugs. B1. The student should identif the side effects of drugs. B2. The student should analyz drug interactions between different medications. C1. The student should ut their knowledge of pharmacol including the mechanism of ac and side effects of drugs, to effective and safe treatr regimens that are appropriate the patient's clinical condition.	GIT drugs	- In-person lectures - Blended learning -Laboratory experiments	- Written exams - Seminars and discus ion

11. Course Evaluation

- 20 M Theoretical assessment;
  (paper-based mid-term exam + quiz + attendance)
- 20 M practical assessment (attendance + quiz + practice + Homework)
- 60 M paper-based theoretical final exam

Total 100 M

12. Learning and Teaching Resources

Required textbooks	-Lippincott Illustrated Revie Pharmacology 6th Edition
Main references (sources)	- Basic and Clinical Pharmacology 16th Editic - Rang and Dale's Pharmacology 10th Edition -Medical Pharmacology at a Glance 9th Editio
Electronic References, Websites	• PubMed (https://pubmed.ncbi.nlm.nih.gov/) • Medscape (https://www.medscape.com/) • UpToDate (https://www.uptodate.com/) Pharmacology Education Project (https://pharmacologyeducation.org/)