Course Description Form

1. Course Name:

Applied Therapeutics I

2. Course Code:

Phclp25_511

3. Semester / Year:

5th Semester / Fifth Year

4. Description Preparation Date:

1/9/2025

5. Available Attendance Forms:

List of students' names signed by students

6. Number of Credit Hours (Total) / Number of Units (Total)

3 hours per week theoretical (45)/3 units

7. Course administrator's name

Theoretical

Name: Lec. Islam Tarik
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Practical

Name:
Email:

8. Course Objectives

Course Objectives

By the end of this course, the student is expected to be able to:

1. Explain the basic principles in the treatment of diseases that require hospitalization.
2. Analyze the results of laboratory tests and link them to the clinical case.
3. Apply the therapeutic principles to choose the appropriate drug treatment.
4. Assess the response to treatment and adjust the treatment plan as needed.
5. Supporting treatment decisions with modern scientific evidence and treatment recommendatio

9. Teaching and Learning Strategies

Strategy	- Interactive Lectures - Clinical Case Studies - Group discussions - Student presentations

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	3	B1: Analyzes laboratory test results and links them to the clinical case to guide pharmacotherapy decisions.	Interpretation of lab results	Lectures + Discussions	+ Instant Ex Case Resolution
2	3	B3: Evaluates the pharmacotherapy plan for acute coronary	Acute coronary syndrome	Case Study + Presentation	Duty + Offer

		syndrome in terms of efficacy, bleeding risk, and monitoring indicators.			
3	3	B2: Compares antiarrhythmic and anticoagulant therapies in cardiac arrhythmias based on efficacy, safety, and drug interactions.	Arrhythmias	Lectures + Clinical Cases	+ Quart Analytical
4	3	A1: Explains the pharmacologic principles for thrombosis prevention and treatment, including anticoagulant selection and monitoring.	Thrombosis	Lecture + Video Tutorial	+ Case Solu Test
5	3	A3: Describes pharmacologic strategies for dyslipidemia and stroke, including indications for therapy, follow-up, and safety considerations.	Dyslipidemia & Stroke	Case Studies	Quarterly + Rep
6	3	A2: Identifies pharmacotherapy options for shock and key parameters for safe use and monitoring.	Shock	Interactive Lecture	Case Analysis
7	3	B1: Analyzes pharmacologic management of liver cirrhosis complications and hepatitis, and justifies selection based on risks and monitoring.	Liver cirrhosis & Hepatitis	Presentations + Discussion	Quiz + F Assessment
8	3	A3: Describes lines of pharmacotherapy for inflammatory bowel disease according to disease severity, treatment goals, and follow-up.	Inflammatory bowel diseas	Lecture + Report	Homework + Cl
9	3	B1: Analyzes the causes of acute renal failure and pharmacotherapy options based on renal function and laboratory data.	Acute renal failure	Clinical Video + Analysis	Quiz + Case Stu
10	3	B3: Evaluates the appropriateness of the medication plan for chronic renal failure	Chronic renal failure & Dialysis	Case Discussion	Demo + Quiz

		patients on dialysis, considering dose adjustment, dialysis clearance, and safety indicators.			
11	3	A3: Describes pharmacotherapy lines for systemic lupus erythematosus according to severity of organ involvement and treatment goals.	SLE	Lecture	+ Anal Quarterly
12	3	A2: Identifies essential pharmacologic options for benign prostatic hyperplasia and key considerations in managing acid–base disturbances.	BPH & Acid-base disorder	Case Study	View + Report
13	3	A2: Identifies pharmacologic options for glaucoma, including indications, contraindications, and key safety warnings.	Glaucoma	Explainer Video + Analysis	Homework + Cl
14	3	C1: Applies principles of selecting and monitoring parenteral and enteral nutrition regimens based on patient needs and safety parameters.	Parenteral & Enteral nutriti	Report + Discussion	Homework + Cl
15					

11. Course Evaluation

- Mid- Term Exam= 30%
- Final Exam= 70%

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100 M total

12. Learning and Teaching Resources

Required textbooks	Chisholm-Burns MA, Schwinghammer TL, Malone PM, et al. Pharmacotherapy principle and practice. 6th edition. 2022 Clinical pharmacy and therapeutics
Main references (sources)	Joseph T. DiPiro, Robert L. Pharmacothera Handbook. 12th Edition. 2023. Hemstreet BA. Inflammatory Bowel Disea In: DiPiro JT, Yee GC, Posey L, Haines Nolin TD, Ellingrod V, editor. Pharmacothera A Pathophysiologic Approach. 12th Edition New York: McGraw-Hill; 2023.
Electronic References, Websites	YouTube
Curriculum development	5%