Course Description Form

1. Course Name:
Applied Therapeutics II (Theoretical)
2. Course Code:
Phclp25 529
3. Semester / Year:
Second semester / Fifth year
4. Description Preparation Date:
1/9/2025
5. Available Attendance Forms:
Students' signature on attendance sheet
6. Number of Credit Hours (Total) / Number of Units (Total)
Two theortical hours/week – total 30 hours - 2 units total
7. Course administrator's name
Theoretical
Name: Lecturer Dr. Salah Mohammed Ameen Email: yousif_salah@uomosul.edu.iq Name: Lecturer Islam Tarik Kasem Email: islam.tarik@uomosul.edu.iq Name: Lecturer Zainab Mohanned Mahmood Email: zainab.alshamaa@uomosul.edu.iq
8. Course Objectives

Course Objectives	By the end of this course, the student is expected to be able to: 1. Explain the protocols and guidelines of treating diseases requir hospitalization. 2. Explain the pathophysiology of the disease in relation with the treatment 3. Apply therapeutic principles to select appropriate drug therapy in treatment 4. Evaluate response to treatment and modify the treatment plan when necessa 5. Support treatment decisions with current scientific evidence and treatm recommendations.
9. Teaching and Learning Strategies	
Strategy	1. Explain the causes of diseases affecting vital organs. 2. Interprets the results of laboratory tests used in patient evaluation. 3. Apply basic concepts in treatment and select the appropriate treatment plan based on the case data. 4. Analyzes clinical cases and compares treatment alternatives. 5. Designs a comprehensive treatment plan based on treatment guidelines. Evaluates the effectiveness and safety of

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A2: Identifies pharmacologic options for thyroid gland disorders, including indications for use and key warnings.	Thyroid gland disorders	Theoretical lectures.	Paper-based exams
2	2	A3: Describes the pharmacologic management of adrenal gland disorders,	Adrenal gland disorders	Theoretical lectures.	Paper-based exams

		emphasizing therapeutic goals and follow-up.			
3	2	B3: Evaluates the appropriateness, effectiveness, and safety of hormone replacement therapy based on indication, contraindications, and monitoring.	Hormonal replacement thera	Theoretical lectures.	Paper-based exams
4	2	A2: Identifies pharmacologic options for menstruation-related disorders, including indications, contraindications, and key safety warnings.	Menstruation related disorders	Theoretical lectures.	Paper-based exams
5	1	C1: Applies principles of selecting contraception based on patient-specific risk factors, contraindications, and counseling points.	Contraception	Theoretical lectures.	Paper-based exams
6	2	A2: Identifies essential pharmacologic options for insomnia, highlighting key dependence-related warnings and monitoring needs.	Insomnia	Theoretical lectures.	Paper-based exams
7	2	B2: Compares antipsychotic medications in terms of efficacy, adverse effects, and monitoring requirements to select the most appropriate option.	Schizophrenia	Theoretical lectures.	Paper-based exams
8	2	A2: Identifies essential pharmacologic options for generalized anxiety disorder, emphasizing key safety warnings, dependence risk, and follow-up.	Generalized anxiety disorders	Theoretical lectures.	Paper-based exams
9	1	B3: Evaluates the effectiveness and safety of pharmacologic treatments for Alzheimer disease according to disease severity and functional goals.	Alzheimer disease	Theoretical lectures.	Paper-based exams

10	2	B2: Compares pharmacologic options for depressive disorders based on efficacy, adverse effects, drug interactions, and follow-up planning.	Depressive disorders	Theoretical lectures.	Paper-based exams
11	2	A1: Explains the principles of cancer chemotherapy, including treatment goals, regimen selection basics, supportive care, and safety monitoring.	Cancer chemotherapy and treatment	Theoretical lectures.	Paper-based exams
12	2	C2: Selects pharmacotherapy for breast cancer based on tumor subtype, stage, supportive treatment, and a toxicity monitoring plan.	Breast cancer	Theoretical lectures.	Paper-based exams
13	2	A3: Describes major pharmacotherapy strategies for leukemia and lymphoma, including treatment goals and key monitoring parameters.	Leukemia &Lymphoma	Theoretical lectures.	Paper-based exams
14	2	C2: Selects pharmacotherapy for prostate cancer based on stage, hormone sensitivity, and an appropriate follow-up plan.	Prostate cancer	Theoretical lectures.	Paper-based exams
15	2	B1: Analyzes adverse effects of chemotherapy and links prevention/management strategies to mechanisms and patient safety considerations.	Adverse effects of chemotherapy	Theoretical lectures.	Paper-based exams

11. Course Evaluation

- 30 M Theoretical assessment; (paper-based mid-term exam + Homework+ Attendan
- 70 M paper-based theoretical final exam

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100 M total

12. Learning and Teaching Resources

Required textbooks	1- Zeind CS, Carvalho MG, Cheng JWM, Zaiken LaPointe T, eds. Applied Therapeutics : The Clin Use of Drugs. Twelfth edition. Wolters Kluwer Hea 2024. 2- Marie Chisholm-Burns, Jill Kolesar, Patrick Mal Kelly C Lee, P. Brandon Bookstaver and Kath

	Matthias. Pharmacotherapy Principles and Prac Seventh Edition, 7th Edition. MCGraw-Hill, 2025
Main references (sources)	Joseph T. DiPiro, Robert L. Pharmacotherapy Handbook. 12th Edition. 2023
Electronic References, Websites	https://www.medscape.com/pharmacists https://www.youtube.com
Curriculum development	5%