

Course Description Form

1. Course Name:					
Pharmacoeconomic (Theoretical)					
2. Course Code:					
Phclp25 5212					
3. Semester / Year:					
2 nd Semester/5 th year					
4. Description Preparation Date:					
1 /9/2025					
5. Available Attendance Forms:					
Students' signatures on the attendance sheet					
6. Number of Credit Hours (Total) / Number of Units (Total)					
2 hours Theoretical (30) /2 units					
7. Course administrator's name					
Name: Lec. Zainab M. Mahmood Email zainab.alshamaa@uomosul.edu.iq Name: Assiss. Lec. Rahma Saad Aldin Email: rahma.saadaldain@uomosul.edu.iq					
8. Course Objectives					
Understand the basic terms of Pharmacoeconomics, how to build the model for economic feasibility studies, and how to extract statistical data from clinical studies to include them in the model for the economic feasibility study.					
9. Teaching and Learning Strategies					
Strategy		Lecturing Quiz			
10. Course Structure					
Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	2	A1: Explains the concept of pharmacoeconomics, its basic principles, and key application areas.	Course overview and basic principles of Pharmacoeconomics	Theoretical lectures.	Paper-based exams
2	2	B1: Analyzes incremental and marginal cost concepts and interprets their implications in economic evaluations.	Incremental cost and marginal cost	Theoretical lectures.	Paper-based exams
3	2	A3: Describes methods for measuring patient outcomes for use in pharmacoeconomic evaluations.	Measuring patient outcomes for use in economic evaluations	Theoretical lectures.	Paper-based exams

4	2	C1: Applies the time trade-off (TTO) method to derive utility values for use in economic analyses.	Time trade-off (TTO)	Theoretical lectures.	Paper-based exams
5	2	B2: Compares key approaches within cost-benefit analysis (CBA) and interprets results for decision-making.	Cost-benefit analysis CBA (1)	Theoretical lectures.	Paper-based exams
6	2	B3: Evaluates cost-benefit analysis (CBA) outputs considering assumptions, uncertainty, and monitoring of key parameters.	Cost-benefit analysis CBA (2)	Theoretical lectures.	Paper-based exams
7	2	A2: Identifies the willingness-to-pay (WTP) method, including its steps, uses, and key limitations.	Willingness-to-Pay Method [WTP]	Theoretical lectures.	Paper-based exams
8	2	C1: Applies core pharmacoeconomic concepts to practical exercises and calculates standard measures appropriately.	Exercises in pharmacoeconomic	Theoretical lectures.	Paper-based exams
9	2	B1: Analyzes cost analysis components across perspectives and links cost categories to study objectives.	Cost analysis	Theoretical lectures.	Paper-based exams
10	2	B3: Evaluates decision analysis using probabilities and interprets expected values to support rational choices.	Decision Analysis (Probabilities)	Theoretical lectures.	Paper-based exams
11	2	A3: Describes the principles of cost-effectiveness analysis (CEA), including ICER calculation and interpretation.	Cost effectiveness analysis (1)	Theoretical lectures.	Paper-based exams
12	2	B2: Compares cost-effectiveness results across alternatives based on ICERs,	Cost effectiveness analysis (2)	Theoretical lectures.	Paper-based exams

		thresholds, and key assumptions.			
13	2	A3: Describes cost-utility analysis (CUA) and the use of QALYs and utility measures in evaluation.	Cost utility analysis (1)	Theoretical lectures.	Paper-based exams
14	2	B3: Evaluates cost-utility results considering utility estimation, uncertainty, and implications for resource allocation.	Cost utility analysis(2)	Theoretical lectures.	Paper-based exams

11. Course Evaluation

- 30 M Theoretical assessment; (paper-based mid-term exam + quiz + attendance)
 - 70 M paper-based theoretical final exam
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- 100 M total

12. Learning and Teaching Resources

Required textbooks	<ol style="list-style-type: none"> 1. Michael F. Drummond, Mark J. Sculpher, Karl Claxton, Greg L. Stoddart, and 2. George W. Torrance. Methods for the Economic Evaluation of Health Care Programmes. Oxford University Press. 4th edition 2015. 3. Bootman JL, Townsend RJ, McGhan WF,(Eds.), 4-Principles of Pharmacoeconomics, Harvey Whitney Books Company, Cincinnati. 5-Karen L. Rascati, PhD Eckerd/Turley Centennial Professor of Health Outcomes and Pharmacy Practice University of Texas College of Pharmacy Austin, Texas.
Main References (sources)	<ol style="list-style-type: none"> 1-J. Lyle Bootman, Raymond J. Townsend, William F. McGhan: Principles of Pharmacoeconomics, 2nd edition. 1996.Cincinnati, OH: Whitney Books. 2-Joseph T. DiPiro, Robert L. Pharmacotherapy: A Pathophysiologic Approach, Sixth Edition. 2005
Electronic References, Websites	https://www.cdc.gov/index.htm

