

SECOND SEMESTER 2023-2024 <u>Course Handout (Part II)</u>

Date: 09/01/2024

In addition to part-I (General Handout for all courses appended to the time table) this portion gives further specific details regarding the course.

Course No. : PHA F417

Course Title : Pharmacoeconomics

Instructor In-Charge: Dr. Abhijeet Joshi

1. Course description: This course is designed to understand and apply the principles of pharmacoeconomics and pharmacoeconomic research through lectures, readings, class participation, and individual assignments. It identifies the role of pharmacists in pharmacoeconomics research and to appropriately use the vocabulary of pharmacoeconomics.

2. Scope and objective of the course:

The principal objective of this course is to impart knowledge about some economic aspects of the health care and its applications in the health sector, with a focus on pharmaceuticals. It covers cost-benefit, cost- effectiveness, cost-minimization, and cost-utility analyses to compare the different pharmaceutical products, drug therapy and treatments. Economic concepts such as supply, demand, efficiency, equity, health policy, market failures, health insurance, and pharmaceutical market are covered. Measurement of direct and indirect costs to a health care program, economic issues, pharmaceutical regulations, pricing policy and other economic related topics will be emphasized.

3. Text Book:

1) Bootman J. L., Townsend R. J., McGhan W. F. Principles of Pharmacoeconomics. Second edition, Harvey Whitney Books Company, Cincinnati, USA, 2002.

4. Reference Books:

- 1) Gold M. R., Siegel J. E., Russell L. B., Weinstein M. C. Cost-Effectiveness in Health and Medicine, Oxford University Press, Oxford, UK, 1996.
- 2) Michael F. D., Sculpher M. J., Torrance G. W., O'Brien B. J., Stoddart G. L. Methods for the Economic Evaluation of Health Care Programmes. Third edition, Oxford University Press, Oxford, UK, 2005.
- 3) Walley T., Haycox A., Boland A. Pharmacoeconomics. Churchill Livingstone, Elsevier Science, Oxford, UK, 2004.







5. Course Plan:

Lect. No.	Learning Objectives	Topics to be covered	Chap/Sec No. (Book)	
1-3	ntroduction to Pharmacoeconomics PE) Introduction and history of Pharmacoeconomics, applications of PE, methodologies, challenges		TB: Ch 1 Class notes	
		and limitations		
4-6	To understand the cost determination and analysis	Cost of illness, cost of therapy, Framework for determining costs and pharmacoeconomic applications.	TB: Ch3 Class notes	
7-11		Introduction, measurement of benefit, Steps in conducting cost-benefit analysis (CBA), Case studies	TB: Ch4 Class notes	
12- 16	Understanding different methods of pharmacoeconomic analysis	Principles of cost-effective analysis (CEA), Theoretical foundations for valuing cost in CEA, Framing and designing CEA, case studies	TB: Ch5 RB1- various chapters Class notes	
17- 21		Introduction, health state utility assessment, Concept of utility, methods of assessing utility, Health care interventions, case studies.	TB: Ch6 Class notes	
22- 23		Concept of cost minimization, sources of clinical trial evidence, Other issues in evaluating equivalence	Class notes	
24- 27	Health related quality of life (HRQoL)- An overview	Components of health- related quality of life measures, General health concepts. TB: Ch7 Class notes		
28- 31	Decision Analysis	Application in pharmacoeconomic study to improve decision making process	TB Ch8 Class notes	
32- 35		Clinical research, drug	TB Ch10	







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1 des ac	Applications of	development process,	Class notes
	Pharmacoeconomics in	Applications of	
	various healthcare settings	Pharmacoeconomics in	
		clinical	
		trials	
36-		Application of research in	TB Ch 11, 12, 13
38		clinical	
		practice and healthcare settings	
39-	Pharmacoeconomics:	Potential intervention points;	TB Ch 2
41	An international	Global status guidelines and	RB1 Ch 1
	perspective	health	
		care systems	







6. Evaluation Scheme:

Components	Duration	Weightage (%)	Date & Time	Remarks
Mid-semester test	90 min	25	14/03 - 2.00 - 3.30PM	СВ
Surprise quizzes	30 min each	20	Continuous	СВ
Seminar and report	variable	10	Continuous	OB
Compre Exam	180 min	45	15/05 FN	CB/OB

- 7. **Mid-Semester Evaluation:** Will be announced after the Mid-semester test.
- **8. Grading Procedure:** It is not mandatory to award all the grades (i.e. A to E); subjective judgment will be exercised while awarding the grades. In borderline cases subjective judgment based on regularity and performance in all the components throughout the semester will be exercised to decide the final grade.
- **9. Make-up:** Make-ups are not generally given as a routine. It is solely dependent on the "genuineness" of the circumstances under which a student fails to appear in a scheduled evaluation component; however, prior permission should be sought from the instructor-incharge. **No make-up for the continuous assessment will be given.**
- **10.** Any further detail (if required) will be announced in class.
- **11. Chamber Consultation Hour:** To be announced in the class.

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