



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Health policy and economics
2	Course number	0505691
3	Credit hours (theory, practical)	3 (theory)
	Contact hours (theory, practical)	3 (theory)
4	Prerequisites/corequisites	Pharmacology2(1203364)
5	Program title	Medicine
6	Program code	
7	Awarding institution	The University of Jordan
8	Faculty	Pharmacy
9	Department	Biopharmaceutics & Clinical Pharmacy
10	Level of course	Undergraduate
11	Year of study and semester (s)	First /second semester of the 6th year
12	Final Qualification	Medicine
13	Other department (s) involved in teaching the course	No
14	Language of Instruction	English
15	Date of production/revision	September 2019

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.
Dr Rimal H Mousa
Office 119
Phone 5355000, Ext: 23373
E.mail: R.mousa@ju.edu.jo

Office hours					
Day/Time	Sunday	Monday	Tuesday	Wednesday	Thursday
1-2	✓		✓		

18. Course Description:

As stated in the approved study plan.

Healtheconomic provides an introduction to the principles and tools of Healtheconomics and health outcomes assessment that are commonly used to study the cost impact of pharmaceutical products and interventions on healthcare systems and patients. It aims to help the students to understand the basic concepts of Healtheconomics and its application in informing health decisions and resource allocation.

1. 19. Course aims and outcomes:

A- Aims:

1. To understand the basic concepts of Health economics
2. To understand the use and application of Health economics in Jordan and worldwide

B- Course Intended Learning Outcomes (ILOs):

Upon successful completion of this course students will be able to:...

Foundational Knowledge

•Develop, integrate, and apply knowledge from the foundational sciences in Clinical sciences (learner)

•Remember

1. To define the basic terms of Health economics in relation to patient, community and health systems

•Understand

2. To outline different types of economic evaluations their use in answering various compassion in health
3. To explain the perspectives of economic evaluations and the way they might influence decision analysis and costing of drugs and services.

•Apply

- 4.To identify relevant costs and outcomes needed to conduct a Health economics analysis
- 5.To critically appraise published articles on economic evaluation to draw useful conclusions and health decisions

•Analyze

- 6.To analyze economic decisions within an environment of limited and scarcity of resource

•Evaluate

- 7.To Evaluate added value of new drugs and interventions compared with available substitutes in the Jordanian market

Skills essential to practice pharmacy

Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems (Manager)

- 8.To respond to questions within the Jordanian market related to drug registration and pricing

Attitudes and behaviors necessary for personal and professional development

Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution (Problem Solver)

- 9.To present economic information to decision makers to inform policy and management decisions
- 10.To adapt Health economics principles and tool when considering health and drug comparisons in clinical and market settings

Program Competencies Achieved:

- Develop, integrate, and apply knowledge from the foundational sciences in Clinical sciences (**learner**)
- Manage patient healthcare needs using human, financial, technological, and physical resources to optimize the safety and efficacy of medication use systems (**Manager**)
- Identify problems; explore and prioritize potential strategies; and design, implement, and evaluate a viable solution (**Problem Solver**)

20. Topic Outline and Schedule:

Content	Reference	Week	ILO/s	instructor
Introduction to health/Pharmacoeconomics,	1	W1	1	Dr Rimal Mousa
Basic concepts and terminology in Health economics			1-3	Dr Rimal Mousa
<ul style="list-style-type: none"> • Determination of cost and outcomes • Perspectives of Health economics evaluations 	1	W2-3		
Quiz 1			W4	
Type of Health economics evaluations	1		4	Dr Rimal Mousa
<ul style="list-style-type: none"> • Cost –minimization analysis (CMA) • Cost effectiveness analysis (CEA) • Cost utility analysis (CUA) • Cost benefit analysis (CBA) 	3,4,5	W4-W5		
Workshop 1		W6	1-4	Dr Rimal Mousa
Midterm			W7-8	
Techniques for the analysis of Health economics	1	W9	6	Dr Rimal Mousa
<ul style="list-style-type: none"> • Decision analysis and incremental cost and outcome analysis • Discounting and inflation in health costs and outcomes • Sensitivity analysis 				
Economic modelling	2	W10	2,3	Dr Rimal Mousa
Workshop 2		W9-10	9,10	
Critical appraisal of economic evaluations	1	W11	5	Dr Rimal Mousa
Workshop 3		W12	5,8	
Health economic guidelines worldwide	2,3	W13	9,10	Dr Rimal

				Mousa
The use of Pharmacoeconomic in policy making and informing health decision	2,3	W14	9,10	Dr Rimal Mousa
Applied Health economics and JFDA pricing in Jordan	2,3	W14-15	7,8	Dr Rimal Mousa

2.

21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods

ILO/s	Learning Methods
1	Lectures
2	Lectures, Class based discussions
3	Lectures, Class based discussions
4	Lectures, Class based discussions
5	Workshops (Team learning)
6	Workshops (Team learning), Class based discussions/ exercise, Problem based learning
7	Class based discussions/ exercise, Problem based learning, Interactive eLearning
8	Workshops (Team learning), Interactive e-Learning
9	Problem based learning
10	Class based discussions/ exercise

Projects and Assignments

Will be announced

Workshop

Three workshops are planned during this course. Workshop is a class exercise based on group work. Student will be given 1- 2 tasks with some reading materials and asked to work through them. This would be followed by feedback and online discussion. The tasks intended in this course will includes tasks on understanding, decision making, and critical appraisal of different type of health economic evaluations

Learning skills:

- 1. Critical thinking**
- 2. Digital literacy**
- 3. Problem-solving skills**
- 4. Self-directed learning**
- 5. Group and team learning**

22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following <u>assessment methods and requirements</u>:				
ILO/s	Assessment Methods			Assignment
	Quiz	Midterm	Final	
	Wight/ density	Wight/ density	Wight/ density	Wight/ density
1	5 marks	2 marks	2 marks	tbc
2	3 marks	3 marks	2 marks	tbc
3	3 marks	3 marks	2 marks	tbc
4	4 marks	4 marks	5 marks	tbc
5	-	-	5 marks	tbc
6	-	-	5 marks	tbc
7	-	-	6 marks	tbc
8	-	-	6 marks	tbc
9	-	10 marks	3 marks	tbc
10	-	8 marks	4 marks	tbc
Total	15	30	40	15

23. Course Policies:

B- Absences from exams and handing in assignments on time:

Will result in zero achievement unless health report or other significant excuse is documented.

C- Health and safety procedures:

NA

D- Honesty policy regarding cheating, plagiarism, misbehavior:

The participation, the commitment of cheating will lead to applying all following penalties together

- 1) Failing the subject he/she cheated at**
- 2) Failing the other subjects taken in the same course**
- 3) Not allowed to register for the next semester. The summer semester is not considered as a semester**

E- Grading policy:

Exams and Quizzes.

Mid Exam:	30 points
Semester work:	20 points
Final Exam:	50 points
Total	100 points

F- Available university services that support achievement in the course:

Classrooms, internet classes

24. Required equipment:

Datashow and internet connection

25. References:

1. Methods for the economic evaluation of health care programs, Drummond, M.F., M.J. Sculpher, and G.W. Torrance, 2005: Oxford university press. ISBN-13: 978-0198529453
2. ISPOR, Health care cost, quality, and outcomes (ISPOR book of terms). 2003. ISBN-13: 978-0974328904
3. Essentials of Pharmacoeconomics, Rascati, KL. Second Edition Wolters-Kluwer - Lippincott, ISBN-13: 978-1451175936
4. Decision Modelling for Health Economic Evaluation, Briggs A, Claxton K, Sculpher M. 1st Edition. Oxford university press. ISBN-13: 978-0198526629
5. Health Economics for Non-Economists: An Introduction to the Concepts, Methods and Pitfalls of Health Economic Evaluations. Annemans L. Academia P., Gent : c2008. ISBN-13: 978-9038212746
6. Essentials of economic evaluation for health care, Elliott RA, Payne K. Pharmaceutical Press, London. 2005
7. Applied Methods of cost-effectiveness Analysis in Health care. Gray AM, Clarke P.M, Wolstenholme, J.L. Oxford University Press, London. 2012
8. Health Care Economic Made Easy. Daniel Jackson. ISBN: 978 1 904842941

26. Additional information:

Name of Course Coordinator: Rimal Mousa-Signature: ----- Date: 17/09/2018

Head of curriculum committee/Department: ----- Signature: -----

Head of Department: Nailya Bulatova Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:

Head of Department
Assistant Dean for Quality Assurance
Course File