



The University of Jordan

Accreditation & Quality Assurance Center

COURSE Syllabus

1	Course title	Pharmacoeconomics
2	Course number	1203401
3	Credit hours (theory, practical)	2 (theory)
	Contact hours (theory, practical)	2 (theory)
4	Prerequisites/corequisites	Pharmacology2(1203364)
5	Program title	PharmD
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 5th year
12	Final Qualification	PharmD
13	Other department (s) involved in teaching the course	No
14	Language of Instruction	English
15	Date of production/revision	19 February 2016

16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

Dr Eman A Hammad, PhD.

<http://eacademic.ju.edu.jo/ehammad/default.aspx>

Office 118

Phone 5 355 000, Ext. 23569.

E-mail: e.hammad@ju.edu.jo

Office hours to be announced

17. Other instructors:

Office numbers, office hours, phone numbers, and email addresses should be listed.

18. Course Description:

As stated in the approved study plan.

Pharmacoeconomics provides an introduction to the principles and tools of Pharmacoeconomics 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 Pharmacoeconomics and its application in informing health decisions and resource allocation..

1.

2. **19. Course aims and outcomes:**

A- Aims:

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

B- Course Intended Learning Outcomes (ILOs): Upon successful completion of this course students will be able to ...

A. Knowledge and understanding:

1. To understand the role of Pharmacoeconomics in analyzing the economic impact of pharmaceutical interventions on health care systems
2. To define basic concept of Pharmacoeconomics
3. To learn about different types of economic evaluations their use
4. To understand the perspectives of economic evaluations and the way they might influence decision analysis and costing of drugs and services.

B. Intellectual skills:

1. To analyze economic decisions within an environment of limited and scarcity of resource
2. To drive relevant costs and revenue streams needed to conduct a Pharmacoeconomics analysis
3. To critically appraise published articles on economic evaluation to draw useful conclusions

C. Subject-specific skills:

1. Respond sufficiently to questions within the Jordanian market related to drug registration and pricing
2. Evaluate added value of new drugs and interventions compared with available substitutes in the Jordanian market

D. Transferable skills:

1. Communicate and present economic information to decision makers to inform policy and management decisions
2. Adapt Pharmacoeconomics principles and tool when considering health and drug comparisons in clinical and market settings

Program Competencies Achieved:

- 7.4 Follow new advances in science related to the profession
7.5 Utilize information technology tools to enhance working experience

20. Topic Outline and Schedule:

3.				
Content	Reference	Week	ILO/s	instructor
Introduction to health/Pharmacoeconomics,	1	W1	A1	Dr Eman Hammad
Basic concepts and terminology in Pharmacoeconomics <ul style="list-style-type: none"> Determination of cost and outcomes Perspectives of pharmacoeconomics evaluations 	1	W2-3	A2-3, B1	Dr Eman Hammad
Type of pharmacoeconomics evaluations <ul style="list-style-type: none"> Cost –minimization analysis (CMA) Cost effectiveness analysis (CEA) Cost utility analysis (CUA) Cost benefit analysis (CBA) Budget Impact analysis (BIA) Cost of illness 	1 3,4,5	W4-W6	B1-2 C1-2, D1	Dr Eman Hammad
Workshop 1	W7			
Midterm	W8			
Techniques for the analysis of pharmacoeconomics <ul style="list-style-type: none"> Sensitivity analysis Decision analysis and incremental cost analysis Discounting in health costs 	1	W9-W10	B1, B3, C1	Dr Eman Hammad
Quiz 1	W9-10			
Workshop 2	W9-10			
Critical appraisal of economic evaluations	1	W11	C3, D1-2	Dr Eman Hammad
Workshop 3	W12			
Pharmacoeconomic guidelines worldwide	2,3	W13	C1-2, D1-2	Dr Eman Hammad
The use of Pharmacoeconomic in policy	2,3	W14		Dr Eman

making and informing health decision				Hammad
Applied pharmacoeconomics and JFDA pricing in Jordan	2,3	W14-15	C1-2	Dr Eman Hammad

4.

21. Teaching Methods and Assignments:

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

ILO/s	Learning Methods	Evaluation Methods
A1-4,B1,C1,C2	Lectures and class based discussions	Exams
D1-2	Assignments and workshops	Class cases and group discussion
B1-3,D1-2	Workshops and class based discussions	Class cases and group discussion

Projects and Assignments

Will be agreed in class as appropriate

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 class 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 assessment methods and requirements:

Exams
 Quizzes
 Students reports on assignments
 Lectures
 Class discussion

23. Course Policies:**A- Attendance policies:**

Attendance: Mandatory.
 First warning – with 4 absences
 Last warning – with 5 absences
 Failing in the subject – with 6 absences

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
Quizz:	10 points
Assignments	10 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

26. Additional information:

Name of Course Coordinator: EmanHammad-Signature: ----- Date: Feb, 21, 2016

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