



<b>Form:</b> <b>Course Syllabus</b>	<b>Form Number</b>	EXC-01-02-02A
	<b>Issue Number and Date</b>	2963/2022/24/3/2 5/12/2022
	<b>Number and Date of Revision or Modification</b>	2/(10/12/2023)
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	<b>The Date of the Deans Council Approval Decision</b>	26/12/2023
	<b>Number of Pages</b>	06

<b>1.</b>	<b>Course Title</b>	Health Technology Assessment: Evaluation and Decision-Making in Healthcare
<b>2.</b>	<b>Course Number</b>	
<b>3.</b>	<b>Credit Hours (Theory, Practical)</b>	3
	<b>Contact Hours (Theory, Practical)</b>	3
<b>4.</b>	<b>Prerequisites/ Corequisites</b>	-----
<b>5.</b>	<b>Program Title</b>	Master of Health Economics and Policy
<b>6.</b>	<b>Program Code</b>	-----
<b>7.</b>	<b>School/ Center</b>	Institute of Public health
<b>8.</b>	<b>Department</b>	Health Economics and Health Management
<b>9.</b>	<b>Course Level</b>	9 <sup>th</sup>
<b>10.</b>	<b>Year of Study and Semester (s)</b>	1 <sup>st</sup> Year, 1 <sup>st</sup> Semester .
<b>11.</b>	<b>Other Department(s) Involved in Teaching the Course</b>	NA
<b>12.</b>	<b>Main Learning Language</b>	English
<b>13.</b>	<b>Learning Types</b>	X Face-to-face learning      Blended <input type="checkbox"/> Fully online
<b>14.</b>	<b>Online Platforms(s)</b>	X Moodle    X Microsoft Teams
<b>15.</b>	<b>Issuing Date</b>	February 2025
<b>16.</b>	<b>Revision Date</b>	February 2025

**17. Course Coordinator:**

Dr. Rimal Mousa  
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#### 18. Other Instructors:

NA

#### 19. Course Description:

This course provides a comprehensive understanding of Health Technology Assessment (HTA), a multidisciplinary process used to evaluate the social, economic, organizational, and ethical issues of a health intervention or health technology. The course covers the methodologies used in HTA, including cost-effectiveness analysis, clinical effectiveness evaluation, and ethical considerations, to support healthcare decision-making at various levels

#### 20. Program Intended Learning Outcomes: (To be used in designing the matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program)

1. **PLO1:** Evaluate and utilise the key components of the national, regional and international healthcare systems to deliver comprehensive and integrative evidence-based health services.
2. **PLO2:** Demonstrate understanding and comprehension of the theories, concepts, and principles of healthcare management, health economics and finance applied to health policy and healthcare.
3. **PLO3:** Demonstrate an in-depth knowledge and understanding of health technology assessment (Health Technology Assessment (HTA) and its application in the healthcare system
4. **PLO4:** Communicate health economics and policy issues to stakeholders in written and spoken forms.
5. **PLO5:** Demonstrate understanding of the sociocultural, political and ethical issues in public health and healthcare.
6. **PLO6:** Use evidence-based practice and current research to plan and evaluate interventions and programmes addressing public health priorities.
7. **PLO7:** Apply principles of leadership, policy development, budgeting, and programme management in planning, implementation and evaluation of health-related programmes and initiatives.
8. **PLO8:** Execute research and analyses in health economics and healthcare policies





**21. Course Intended Learning Outcomes:** (Upon completion of the course, the student will be able to achieve the following intended learning outcomes:

Course ILOs	The learning levels to be achieved					
	Remembering	Understanding	Applying	Analysing	evaluating	Creating
1	✓	✓				
2	✓	✓	✓			
3				✓		
4			✓	✓	✓	
5		✓	✓			
6				✓		✓



**22. The matrix linking the intended learning outcomes of the course with the intended learning outcomes of the program:**

<b>Descriptors</b>		<b>PLOs</b>	<b>PLO (2)</b>	<b>PLO (4)</b>	<b>PLO (6)</b>	<b>PLO (8)</b>
		<b>ILOs</b>				
<b>Knowledge</b>	<b>K1</b>	Understand the purpose and importance of HTA in healthcare systems.	✓			
	<b>K2</b>		✓	✓		
<b>Skills</b>	<b>S1</b>	Apply basic methods used in the evaluation of health technologies, including clinical and economic assessments.		✓	✓	
	<b>S2</b>	Critically analyze and interpret HTA reports.		✓	✓	
<b>Competencies</b>	<b>C1</b>	Explore the roles of various stakeholders in the HTA process, including policymakers, healthcare providers, and patients.				✓
	<b>C2</b>	Critically analyze and interpret HTA reports.				✓



### 23. Topic Outline and Schedule:

W ee k	Topic	ILO/s Linked to the Topic	Learning Types (Face to Face/ Blended/ Fully	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
1	Introduction to Health Technology Assessment (HTA)	K1	Face to Face	Lecture and Moodle	Synch.	Exam	1 and 2
2	HTA Frameworks and Methodologies	K1, S1	Face to Face	Lecture and Moodle	Synch.	Exam	1 and 2
3	Assignment :Case study analysis of an HTA framework	K1	Face to Face	Lecture and Moodle	Synch.	Exam	1 and 2
4	Clinical Effectiveness Assessment	K1	Face to Face	Lecture and Moodle	Synch.	Exam	1, 2, 7 and 8
5	Practical session on conducting a basic systematic review and meta-analysis	K1, K2	Face to Face	Lecture and Moodle	Synch.	Exam, Case Study	
6	Economic Evaluation in HTA – Overview of Cost-Effectiveness Analysis (CEA)  Assignment: Analyze a case study using CUA	K1, K2	Face to Face	Lecture and Moodle	Synch.	Exam, Discussion	1, 2, 3 and 4



W ee k	Topic	ILLO/s Linked to the Topic	Learning Types (Face to Face/ Blended/ Fully	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
7	Introduction to Decision Analytic Modeling in HTA	K1, S1, K2	Face to Face	Lecture and Moodle	Synch.	Exam	1 and 2
8	Introduction to Budget Impact Analysis: Financial impact of adopting a new technology  Assignment: Simple BIA model on Excel	K1, K2, S1, S2	Face to Face	Lecture and Moodle	Synch.	Exam	1 and 2
9	Ethical and Social Considerations in HTA	K1, K3	Face to Face	Lecture and Moodle	Synch.	Exam, Case Study	2
10	Assignment: Build a basic decision tree model and Markov modelling in Excel	K1, S2,C2	Face to Face	Lecture	Synch.	Presentation and Discussion	2
11	HTA for Medical Devices and Diagnostics  Assignments: Comparative analysis of HTA reports for pharmaceuticals and medical devices  HTA for Digital Health and Telemedicine	S2, C1, C2	Face to Face	Practical	Synch.	Lab results and report	
12	Transferability of HTA across countries	S2, C1, C2	Face to Face	Practical	Synch.	Lab results and report	



W ee k	Topic	ILO/s Linked to the Topic	Learning Types (Face to Face/ Blended/ Fully)	Platform Used	Synchronous / Asynchronous Lecturing	Evaluation Methods	Learning Resources
13	Global Health Technology and Future Directions in HTA	S2, C1, C2	Face to Face	Lectures	Synch.	Lab results and report	
14	Guest speaker : Practical application of HTA in Jordan: Opportunities and challenges	S2, C1, C2	Face to Face	Lecture	Synch.	Case study	
	Final Exam						

#### 24. Evaluation Methods:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Evaluation Activity	Mark	Topic(s)	ILO/s Linked to the Evaluation activity	Period (Week)	Platform
Semester Work (project Assignment, Discussion)	30 M	Evaluate and criticize scientific research article	K1, K2, S2,C2	Week 10	On Campus
Midterm Exam	30 M	Weeks 1-7	K1-K2, S1-S2	Week 8	On Campus
Final Exam	40 M	Weeks 8-15	K1-K2, S1-S2	Week 15	On Campus



## 25. Course Requirements:

Textbook: Health Technology Assessment: A Framework for Evidence-Based Decision-Making by M. Drummond et al.

Additional journal articles, case studies, and HTA reports will be provided.

## 26. Course Policies:

A- Attendance policies: Regulations of the University of Jordan about attendance and absences will be strictly implemented.

B- Attendance: Mandatory.

onsite meeting on the scheduled lectures (1-4) on Monday  
Sunday lectures will be recorded and uploaded on the Moodle  
First warning – with 2 absences  
Last warning – with 3 absences  
Failing in the subject – with 4 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, and 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

Grievance Policy

According to the general policies applied at the University of Jordan for grievance, when there is a complaint

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

An account on MS teams, library, internet connection, E-Learning, well equipped Labs for the practical part



**27. References:**

A- Required book(s), assigned reading and audio-visuals:

- “The Economics of Health and Health Care” by: Sherman Folland, Allen C. Goodman, and Miron Stano, Pearson Publishing, 2013
- Selected journal articles and case studies (provided throughout the course).

B- Recommended books, materials, and media:

Centers for Disease Control and Prevention ([www.cdc.gov](http://www.cdc.gov))

**28. Additional information:**

Name of the Instructor or the Course Coordinator: Dr. Rimal Mousa	Signature: .....	Date: 1/12/2024
Name of the Head of Quality Assurance Committee/ Department	Signature: .....	Date: .....
Name of the Head of Department	Signature: .....	Date: .....
Name of the Head of Quality Assurance Committee/ School or Center	Signature: .....	Date: .....
Name of the Dean or the Director	Signature: .....	Date: .....