PH5101: INTRODUCTION TO HEALTH ECONOMICS AND OUTCOMES RESEARCH

Effective Term
Semester B 2024/25

Part I Course Overview

Course Title
Introduction to Health Economics and Outcomes Research

Subject Code
PH - Infectious Diseases and Public Health
Course Number
5101

Academic Unit
Infectious Diseases and Public Health (PH)

College/School
Jockey Club College of Veterinary Medicine and Life Sciences (VM)

Course Duration
One Semester

Credit Units
3

Level
P5, P6 - Postgraduate Degree

Medium of Instruction
English

Medium of Assessment
English

Prerequisites
Nil

Precursors
Nil

Equivalent Courses
Nil

Exclusive Courses
Nil

Part II Course Details

Abstract

Health economics and outcomes research (HEOR) helps to provide the best possible health outcomes via data analytics and frameworks for healthcare decision making. This field has become increasingly important involving payers, healthcare providers, governments, and patients. In this course, students will learn basic concepts in health economics, understand supply and demand in the health care markets, learn how to conduct benefit-risk assessment, and the role of different stakeholders in the health care system. Students will also learn outcomes assessment methods to understand the end results (outcomes) of the healthcare system and evaluate the effect of healthcare interventions on patients.

Course Intended Learning Outcomes (CILOs)

	CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Explain fundamental concepts of health economics	20	x		
2	Describe healthcare markets and the role and importance of different stakeholders	30	x	x	x
3	Apply economic theory and models to inform decisions concerning the allocation of resources	20	x	x	x
4	Explain outcome assessment methods and how to use them in real-world applications	30	x	x	x

A1: Attitude
Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability
Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments
Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

	LTAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lectures	Students will receive lectures as the primary form of teaching, where the instructor systematically introduces the class content through presentations.	1, 2, 3, 4	
2	Tutorial and/or case studies	Students will participate in tutorial and/or case study sessions, which involve in-class interactive discussions and problem-solving activities to help them better understand the concepts studied in or after classes.	2, 3, 4	In or after classes

3	Hand-in Assignment	Students will demonstrate the application of the course content and practice problem-solving skills through hand-in written documentation.	2, 3, 4	In or after classes
4	Course Project	Students will undertake a course project that enables them to apply the content learned in class to real-world applications.	2, 3, 4	In or after classes

Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	In-class participation/ debate	1, 2, 3, 4	20	
2	Midterm examination	1, 2, 3, 4	20	
3	Assignments	1, 2, 3, 4	20	
4	Final Project	1, 2, 3, 4	40	

Continuous Assessment (%)

100

Assessment Rubrics (AR)

Assessment Task

In-class Debate (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Demonstrate the ability to apply what has been taught in lectures/tutorials in the in-class debate.

Excellent

(A+, A, A-) High

Good

(B+, B, B-) Significant

Fair

(C+, C, C-) Moderate

Marginal

(D) Basic

Failure

(F) Not reaching basic levels

Assessment Task

Midterm examination (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion

Students will explain the key concepts and topics taught in the classes (end of Week 6), in the written format.

Excellent
(A+, A, A-) High

Good
(B+, B, B-) Significant

Fair
(C+, C, C-) Moderate

Marginal
(D) Basic

Failure
(F) Not reaching basic levels

Assessment Task
Assignments (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion
Students will submit written work to demonstrate knowledge of the subject matter, the capacity to compute and consolidate the course content and communicate the evidence of original and critical thinking.

Excellent
(A+, A, A-) High

Good
(B+, B, B-) Significant

Fair
(C+, C, C-) Moderate

Marginal
(D) Basic

Failure
(F) Not reaching basic levels

Assessment Task
Final Project (for students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter)

Criterion
Students will submit written work to demonstrate knowledge of the subject matter.

Excellent
(A+, A, A-) High

Good
(B+, B, B-) Significant

Fair
(C+, C, C-) Moderate

Marginal
(D) Basic

Failure
(F) Not reaching basic levels

Assessment Task
In-class Debate (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion
Demonstrate the ability to apply what has been taught in lectures/tutorials in the in-class debate.

Excellent
(A+, A, A-) High

Good
(B+, B) Significant

Marginal
(B-, C+, C) Basic

Failure
(F) Not even reaching marginal levels

Assessment Task
Midterm examination (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion
Students will explain the key concepts and topics taught in the classes (end of Week 6), in the written format.

Excellent
(A+, A, A-) High

Good
(B+, B) Significant

Marginal
(B-, C+, C) Basic

Failure
(F) Not even reaching marginal levels

Assessment Task
Assignments (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion
Students will submit written work to demonstrate knowledge of the subject matter, the capacity to compute and consolidate the course content and communicate the evidence of original and critical thinking.

Excellent

(A+, A, A-) High

Good
(B+, B) Significant

Marginal
(B-, C+, C) Basic

Failure
(F) Not even reaching marginal levels

Assessment Task
Final Project (for students admitted from Semester A 2022/23 to Summer Term 2024)

Criterion
Students will submit written work to demonstrate knowledge of the subject matter.

Excellent
(A+, A, A-) High

Good
(B+, B) Significant

Marginal
(B-, C+, C) Basic

Failure
(F) Not even reaching marginal levels

Part III Other Information

Keyword Syllabus
Health Economics, equity; efficiency; markets; financing

Reading List

Compulsory Readings

	Title
1	Sherman Folland, Allen C. Goodman, Miron Stano (2017) The Economics of Health and Health Care. (8th Edition)
2	Stephen Morris, Nancy Devlin, David Parkin, Anne Spencer (2012) Economic Analysis in Healthcare (2nd Edition)

Additional Readings

	Title
1	Barbara McPake, Charles Normand, Samantha Smith, Anne Nolan (2013) Health Economics An International Perspective (3rd Edition)