The Hashemite University

الجامعـــــة الهاشميـــــة

Deanship of Academic Development and International Outreach

عمادة التطوير الأكاديمي والتواصل الدولي

Syllabus: Ethics of Science and Medical Technology (111500103)

First Semester 2025- /2026

COURSE INFORMATION	
Course Name: Ethics of Science and Medical Technology **Semester:** First Semester **Department:** Department of Public Health, Pharmacology, and clinical skills **Faculty:** Faculty of Medicine	**Course Code:** 111501103 **Section:** Preclinical course. **Core Curriculum**: MD program
Day(s) and Time(s): Monday: 11-12-12-1 **Classroom:** Medical school theater Medical science alliance theater	**Credit Hours:** 1 **Prerequisites**: None

COURSE DESCRIPTION

The medical profession since time immemorial has conducted itself with a high level of ethical behavior that has earned the trust that patients have in doctors today. Medical ethics is defined as a civil code of behavior considered correct by members of the profession for the good of both the patient and profession. This trust goes beyond written words and leads the public at large to expect the doctor to have not only a high standard of medical ability and skill but also impeccable behavior. The need for a patient's trust in his doctor is the basis for ethical codes from many centuries ago as manifested in the traditions of all the major civilizations. In recent times, national, regional and world associations of doctors as well as other health care professionals have revised existing codes of ethics and formulated new ones to keep up with advances in medical knowledge, medical practice, and research as well

as changes in society. All doctors subscribe to the spirit of caring and confidentiality that regulates the doctor-patient relationship and these values continue to be accepted by all those who practice the art of medicine.

A new doctor entering the profession of medicine joins a fraternity dedicated to the service of humanity. He will be expected to subordinate his personal interests to the welfare of his patients, and, together with his fellow practitioners, seek to raise the standard of health in the community where he practices. He inherits traditions of professional behavior on which he must base his own conduct, and which he must pass on untarnished to his successors.

This course is an introduction to medical ethics. The first part of the course introduces basic ethical issues, codes & principles, which are intended to serve as a background aid for thinking through the issues discussed in the remainder of the course.

DELIVERY METHODS

The course will be delivered through a combination of active learning strategies. These will include:

- PowerPoint lectures and active classroom-based discussion
- Video lectures
- E-learning resources: e-reading assignments and practice quizzes through Model and Microsoft Team

FACULTY INFORMATION

Name	Dr Eman Adnan Al- Kamil
Academic Title:	Associate professor
Office Location:	3rd floor
Telephone Number:	5568
Email Address:	emana_sa@hu.edu.jo
Office Hours:	Sunday 11.00-1.00 Wednesday 11.00-1.00 *Please send an e-mail (emana_sa@hu.edu.jo) to meet at any other time.*

REFERENCES AND LEARNING RESOURCES

1.Medical Ethics, 1st Edition

A Reference Guide for Guaranteeing Principled Care and Quality

Author: Eldo Frezza , Copyright Year 2019

Publisher: ISBN 9781138581074

Published October 18, 2018, by Productivity Press

2. Clinical & Medical Ethics Bibliography

Post Date: 10/01/2016

3. Selected articles and handout documents on Medical Ethics issues (will be available to students as paper or electronic versions).
4. All compulsory weekly readings are available electronically on Model.

STUDENT LEARNING OUTCOMES MATRIX*

Core Curriculum Learning Outcomes	Program Learning Outcomes	Course Objectives	Course Student Learning Outcomes	Assessment Method
CC-LO-1 Think critically and creatively in a variety of methods in order to make decisions and solve problems.	MEth -LO-1: Apply critical thinking and demonstrate problem-solving skills in the major fields of Medical Ethics	1. Develop an understanding of the development of human behaviour and its' effects on the provision of medical care and explain the basic principles of the major aspects of Medical Ethics.	1. Explain the systems of human social behavior. 2. Identify the value of Medical Ethics and determine its' influence the role of doctors in providing medical care.	• Exams • Quizzes • "On-line' reading assignments • homework assignments
		2.Elaboration some aspect of the provision of good standard of care. 3.Explore the importance to adhere to ethical standards in health and medical care. 4.Obtain a thorough foundation in the various fields of Medical Ethics.	2. Identify the demand for the provision of good standard of care, and its' effects on the health of patients.	• Exams • Quizzes • "On-line' reading assignments

		5. Develop an answer to the question: Why Ethics Become Important?	3.1 Describe the importance of medical ethics in the provision of medical care. 3.2 explore the role of medical ethics in the process of clinical decision making.	• Exams • Quizzes • "On-line' reading assignments • homework assignments
CC-LO-2. Communicate competently with others using oral and written English skills CC-LO-3. Demonstrate competency in the use of research skills and various information sources.	MEth -LO-2: Use modern literature search methods to obtain information about medical ethics topics and write reports.	4. Obtain an understanding of the role of medical ethics in other disciplines, and its importance in the medical field.	4. Acquire the ability to learn independently; articulate the importance of independent learning for future professional development.	• "On-line" reading assignments
	MEth -LO-3: Communicate results to medical ethics and other subjects.	5. Acquire positive attitudes towards further studies in medical ethics and towards the application of medical ethics in different medical disciplines.	5. Develop a positive attitude towards medical ethics and its applications in the medical field, and towards further study and lifelong learning.	• On-line" reading assignments
CC-LO-4. Identify the general concepts of humanities and natural sciences in a manner that reveals their value in life.	MEth-LO-4: The course will shed the lights on the implications of studying medical ethics, its theories, and principles.	6. Shed the light on and differentiate between the theories, codes, and principles of medical ethics to enforce its' application in medical care. 7. Discuss types of patient-doctor relationship and its importance in the provision of high standard medical care and its role in the provision of high-quality care. 8. Discuss the importance of communication in provision of high standard medical care and shed the light on the types of communication	6. Develop a positive attitude towards medical ethics and its applications in medical care, and towards further study and lifelong learning.	

		style and its role in patient' care. 9. Explain causes and types of medical malpractice and its' implication on medical care, and discuss methods of prevention		

ACADEMIC SUPPORT

It is The Hashemite University policy to provide educational opportunities that ensure fair, appropriate, and reasonable accommodation to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities are encouraged to contact their instructor to ensure that their individual needs are met. The University through its Special Need section will exert all efforts to accommodate for individual's needs.

Special Needs Section: Student Services and Care Unit
Tel: 053903333 ext. 4132 / 4583 / 5023
Location: Deanship of Students Affairs
Email: **stydent@hu.edu.jo**

COURSE REGULATIONS

Participation

Class participation and attendance are important elements of every student's learning experience at The Hashemite University, and the student is expected to attend all classes. A student should not miss more than 15% of the classes during a semester. *Those exceeding this limit of 15% will receive a failing grade regardless of their performance*. It is a student's responsibility to monitor the frequency of their own absences. **Attendance record begins on the first day of class irrespective of the period allotted to drop/add and late registration. It is a student's responsibility to sign-in; failure to do so will result in non-attendance being recorded.**

In exceptional cases, the student, with the instructor's prior permission, could be exempted from attending a class provided that the number of such occasions does not exceed the limit allowed by the University. The instructor will determine the acceptability of an absence for being absent. A student who misses more than 25% of classes and has a valid excuse for being absent will be allowed to withdraw from the course.

Plagiarism

Plagiarism is considered a serious academic offence and can result in your work losing marks or being failed. HU expects its students to adopt and abide by the highest standards of conduct in

their interaction with their professors, peers, and the wider University community. As such, a student is expected not to engage in behaviours that compromise his/her own integrity as well as that of the Hashemite University.

Plagiarism includes the following examples, and it applies to all student assignments or submitted work:

- **Use of the work, ideas, images, or words of someone else without his/her permission or reference to them.**
- **Use of someone else's wording, name, phrase, sentence, paragraph, or essay without using quotation marks.**
- **Misrepresentation of the sources that were used.**

The instructor has the right to fail the coursework or deduct marks where plagiarism is detected.

Late or Missed exams:

- In cases where a student misses an assessment on account of a medical reason or with prior permission, in line with university regulations an incomplete grade for the specific assessment will be awarded and an alternative assay exam can be arranged.
- Students who fail to attend an exam, on the scheduled date without prior permission, and/or are unable to provide an accepted medical note, will automatically receive a failure grade for this part of the assessment.

Student Complaints Policy

Students at The Hashemite University have the right to pursue complaints related to faculty, staff, and other students. The nature of the complaints may be either academic or non-academic. For more information about the policy and processes related to this policy, you may refer to the students' handbook.

COURSE ASSESSMENT

Course Calendar and Assessment

Students will be graded through the following means of assessment and their final grade will be calculated from the forms of assessment listed below with their grade weighting considered. The criteria for grading are listed at the end of the syllabus.

Assessment	Grade Weighting	Deadline Assessment
Mid Exam	50 %	29/11/2025

Final Exam	50 %	20/1/2026

Description of Exams

Test questions will predominately come from material presented in the lectures. Semester exams will be conducted during the regularly scheduled lecture period. The exam will consist of multiple- choice questions.

Make-up exams will be held for those who miss the exam, only for individuals who present official medical excuse. Only documented absences will be considered as per HU guidelines.

Grades are not negotiable and are awarded according to the following criteria*:

Letter Grade	Description	Grade Points
A+	Excellent	4.00
A		3.75
A-		3.50
B+	Very Good	3.25
B		3.00
B-		2.75
C+	Good	2.50
C		2.25
C-		2.00
D+	Pass	1.75
D	Pass	1.50
F	Fail	0.00
I	Incomplete	-

WEEKLY LECTURE SCHEDULE AND CONTENT DISTRIBUTION

Note: For Medical Ethics (111500103) with 1 lecture period per week (Monday /Wednesday), one lecture period covers (50 minutes). The course content specifies lectures handouts that will be included in quizzes, homework, and exams.

subject 1	Introduction to Medical Ethics	**Week 1-2**	**2 lectures hours**

1. Basic definitions and terminology; definitions of the following:
   A. System governing human social behavior.

- Socialization

- Primary Socialization

- Secondary Socialization

B. Why Ethics Become Important?

C. Aims of teaching medical ethics.

D. Basic Rights and Ethical Duties

E. Definition and scope of medical ethics.

F. Historical background of medical ethics.

Subject 2-3	**Continuation…..**	**Week 3-6**	**4 lecture hours**

2. Historical background of medical ethics.

3. Declarations in medical ethics

- Hippocratic oath
- The declaration of Geneva
- II-The World Medical Associations (WMA):

international code of medical ethics

- The declaration of Helsinki
- The declaration of Lisbon
- The declaration of Sydney
- The declaration of Oslo
- The declaration of Tokyo
- The declaration of Hawaii
- The declaration of Venice
-

Subject 4-5:	**Week 7-8**	**2 lectures hours**

4. Theories of medical ethics

- Teleological theories
- Deontology
- Virtue Theories

Mid Examination (50 MCQ)

Subject 6	**Week 9-10**	**2 lecture hours**

5. Principles of medical ethics.
   A. The Principle of Non-Maleficence
   B. The Principle of Beneficence
   C. The Principle of Autonomy
      a. Telling the truth.
      b. Informed consent.
      c. Confidentiality.
   D. The Principle of Justice

a) Fairness

b) Discrimination in medicine

c) Allocation of resources

d) Resolution of Ethical Dilemmas

Subject 7	**Week 11 -12**	**2 lecture hours**

6. Patient -Doctor relationship

- Parson's pattern of Patient -Doctor relationship
- Types of Patients -Doctor relationship
- Privileged access
- Importance of interpersonal aspect
- Dysfunctional Communication styles
- Personality types
- How to tell the patient the bad news (Breaking the bad news)

Subject 8	**Week 13 -14**	**2 lecture hours**

7. Medical malpractice
    - Frequency and cost of medical errors.
    - The medical malpractice claims.
    - Elements of the case.
    - The trial
    - Damages
- Proving Fault in Medical Malpractice Cases
- Prevention of Medical Malpractice

Final Exam (50)