

BMS3007: ETHICS AND PRACTICE IN MEDICAL LABORATORY

Effective Term

Semester A 2025/26

Part I Course Overview

Course Title

Ethics and Practice in Medical Laboratory

Subject Code

BMS - Biomedical Sciences

Course Number

3007

Academic Unit

Biomedical Sciences (BMS)

College/School

College of Biomedicine (BD)

Course Duration

One Semester

Credit Units

3

Level

B1, B2, B3, B4 - Bachelor's Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

Nil

Precursors

Nil

Equivalent Courses

Nil

Exclusive Courses

Nil

Part II Course Details

Abstract

The course is designed to enhance practice in medical laboratories by illustrating the ideas of good laboratory practice. The course will provide students with an overview of legal and ethical issues that they might encounter in medical laboratories. Students will need to reflect on the issues relating to ethical principles and social concerns (e.g. access to patients' medical records, handling confidential information, animal testing and genetic manipulation testing). Ethical behaviours and manners, moral values essential in the workplace will also be addressed.

Course Intended Learning Outcomes (CILOs)

CILOs	Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Recognize that all laboratory tests should be carried out with patient's informed consent	x		
2	Recognize all information stored in workplace or laboratories must kept in confidential nature	x		
3	Explain and demonstrate the ability to promote research integrity and prevent research misconduct		x	
4	Carry out laboratory work complies with relevant guideline sand regulations		x	x
5	Describe ethical concepts or standards in medical laboratory, justify and apply them in laboratory practice		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 engage in formal lectures to gain knowledge of good laboratory practice and ethical principles.	1, 2, 3, 4, 5

2	Tutorials and group discussions	Students will participate in groups to consolidate their learning as they produce mini proposals and deliver presentations. They will actively engage as audience members during peers' presentations or even serve as jury members for the marking of presentations in order to stimulate students' thoughts on ethical issues and social concerns in society	1, 2, 3, 4, 5	
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Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("- " for nil entry)	Allow Use of GenAI?
1	Mini proposal	1, 2, 3, 4, 5	20	-	Yes
2	Group project and presentation	1, 2, 3, 4, 5	30	-	Yes

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

2

Minimum Continuous Assessment Passing Requirement (%)

40

Minimum Examination Passing Requirement (%)

40

Additional Information for ATs

Minimum Passing Requirement: A minimum of 40% in continuous assessment as well as in examination.

Assessment Rubrics (AR)**Assessment Task**

1. Mini proposal

Criterion

The students will be assessed based on their understanding of key theories and arguments on laboratory practice and quality management. The proposal will be evaluated based on whether the proposal has appropriately covered the key issues in this course.

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal levels

Assessment Task

2. Group project and PowerPoint presentation

Criterion

The presentation will be evaluated based on the comprehensiveness of the viewpoint, logical flow and organization of the presentation, relevance of the materials and evidence used, as well as time control and communication skills.

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal levels

Assessment Task

3. Final examination

Criterion

Response demonstrates thorough understanding of the question. All facts, statements, and conclusions are accurate and logically support the topic being discussed. Response is free of errors in grammar.

Excellent (A+, A, A-)

High

Good (B+, B, B-)

Significant

Fair (C+, C, C-)

Moderate

Marginal (D)

Basic

Failure (F)

Not even reaching marginal levels

Part III Other Information**Keyword Syllabus**

- Ethical principles
- Quality Management Systems
- Clinical laboratory
- ISO 15189 and CLSI GP26-A3
- Collection of information
- Specimen collection
- Storage and retention of medical records
- Access to medical records
- Human rights abuses
- Selection of research subjects
- Confidentiality of data
- Ethical behaviours

Reading List**Compulsory Readings**

Title	
1	Pozgar, George D. "Legal and Ethical Issues for Health Professionals" 4th Edition; Jones and Bartlett Learning (2015) chapter 2, 9, 12, 14
2	WHO- Ethical standards and procedures for research with human beings http://www.who.int/ethics/research/en/
3	Laboratory quality management system: handbook https://www.who.int/publications/i/item/9789241548274

Additional Readings

Title	
1	Nil