

BMS3007: ETHICS AND PRACTICE IN MEDICAL LABORATORY

Effective Term

Semester A 2022/23

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

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

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 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, handle confidential information, animal testing and genetic manipulation testing). Ethical behaviours and manners, moral values essential in workplace will also be addressed.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if DEC-A1 DEC-A2 DEC-A3 app.)			
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	Demonstrate the ability promote research integrity and prevent research misconduct			x	
4	Carry out laboratory work complies with relevant guideline sand regulations			x	x
5	Familiarize with ethical concepts or standards 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.

Teaching and Learning Activities (TLAs)

TLAs	Brief Description	CILO No.	Hours/week (if applicable)
1	Lectures	Teaching and learning will be primarily based lectures	1, 2, 3, 4, 5
2	Tutorials and group discussions	Tutorials and group discussions will stimulate students' thoughts on ethical issues and social concerns in the society	1, 2, 3, 4, 5

Assessment Tasks / Activities (ATs)

ATs		CILO No.	Weighting (%)	Remarks (e.g. Parameter for GenAI use)
1	Mini proposal	1, 2, 3, 4, 5	20	
2	Group project and presentation	1, 2, 3, 4, 5	30	

Continuous Assessment (%)

50

Examination (%)

50

Examination Duration (Hours)

2

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 encouraged to practice their understanding of quality management. The performance 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

Encourage students to think critically by allowing them to ask questions and have in class discussion, grading will be based on the performance of the whole team in the group project as well as class discussion

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

To test students' application of material taught in class and evaluate their performance based on their performance on the exam

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
- Collection of specimens
- 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