

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

<b>Course name</b>	Introduction to Medical Lab. Technology
<b>Course number</b>	AMSL2207
<b>Faculty</b>	
<b>Department</b>	
<b>Course type</b>	Major Needs
<b>Course level</b>	2
<b>Credit hours (theoretical)</b>	2
<b>Credit hours (practical)</b>	0
<b>Course Prerequisites</b>	

#### Course Objectives

1 - To introduce students to quality control
2 - To introduce students to Laboratory Math
3 - To introduce students with care and use of basic laboratory equipments and laboratory settings
4 - To emphasize on the importance of proper collection of human specimens and result integrity
5 - To introduce the students with each specialty, department and section of the clinical laboratory
6 - To introduce students to venipuncture and blood collection protocol

#### Course Contents

1 - INTRODUCTION AND LABORATORY OVERVIEW
2 - TYPES OF LAB SPECIMENS AND SPECIMEN COLLECTION
3 - BLOOD SPECIMEN COLLECTION (VENIPUNCTURE)
4 - LABORATORY WARES AND APPARATUS
5 - LABORATORY INSTRUMENTATION
6 - LABORATORY MATH
7 - INTRODUCTION TO HEMATOLOGY
8 - INTRODUCTION TO CLINICAL CHEMISTRY
9 - INTRODUCTION TO IMMUNOHEMATOLOGY (BLOOD BANKING)
10 - INTRODUCTION TO IMMUNOLOGY AND SEROLOGY
11 - INTRODUCTION TO MICROBIOLOGY
12 - INTRODUCTION TO URINALYSIS
13 - INTRODUCTION TO GENETICS AND MOLECULAR BIOLOGY
14 - CLINICAL LABORATORY QUALITY CONTROL

#### Teaching and Learning Methods

1 - Powerpoint lecture notes
2 - Illustration videos

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
First Midterm Exam	After one month	25
Second Midterm Exam	After the second month	25
Final Exam	At the end of the semester (2hr Exam)	50

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**Books and References**

Course note	Selection from text books-in each section
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