TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Fall
Course Information for MA 309 MEDICAL SPECIMENS

Course Name:	MEDICAL SPECIMENS

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
MA 309	5	1	2	2	4

Name of Lecturer(s)-Academic Title:	Muzhda Saber - MSc
Teaching Assistant:	Tolaz
Course Language:	-
Course Type:	Main
Office Hours	2 hourse
Contact Email:	muzhda.haydar@tiu.edu.iq Tel:07507725801
Teacher's academic profile:	MSc
Course Objectives:	The purpose of this course is to teach and develop the skill of sample collection.
Course Description (Course overview):	Medical specimens is a vital healthcare detective, competent in the collection, processing and analysis of biological specimens, the performance of lab procedures, the maintenance of instruments, and relating lab findings to common diseases/conditions that assist physicians in patient diagnosis and treatment, as well as in disease monitoring or prevention. This course has been designed to introduce students to the field of Medical Laboratory Science. The course combines lecture and laboratory practice, to allow students to demonstrate professionalism and interpersonal skills while achieving competence with common laboratory procedures. Students will be given the opportunity to demonstrate knowledge in making solutions, using aseptic techniques, and handing laboratory equipment.

COURSE CONTENT

Week	Hour	Date	Topic
1	2	4-7/10/2021	Instruction
2	2	10-14/10/2021	Blood
3	2	17-21/10/2021	Blood
4	2	24-28/10/2021	Urine
5	2	31/10-4/11/2021	Urine
6	2	7-11/11/2021	Body fluid
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	Midterm Exam
9	2	28/11-2/12/2021	Sputum
10	2	5-9/12/2021	Sputum
11	2	12-16/12/2021	Stool
12	2	19-23/12/2021	Stool
13	2	26-30/12/2021	Tissue
14	2	2-5/1/2022	Culture swabs
15	2	9-13/1/2022	Final Exam

16	2	16-20/1/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

1	Explain the role of specimen collection in the overall patient care system
2	Identify collection equipment, various types of additives used, special precautions necessary, and substances that can interfere in clinical analysis of blood constituents.
3	Explain requisitioning, transport and processing.

COURSE'S CONTRIBUTION TO PROGRAM OUTCOMES

(Blank : no contribution, I: Introduction, P: Profecient, A: Advanced)

	Program Learning Outcomes	**Cont.**
1	Evaluate clinical laboratory data by interpreting laboratory results and relating the data to various disease states.	I
2	apply principles of evidence-based medicine to determine clinical diagnoses.	P
3	apply the basic principles of gross and microscopic anatomy, physiology, biochemistry, immunology, microbiology/virology.	P
4	formulate and implement acceptable treatment modalities to various disease states.	I
5	use technology effectively in the delivery of instruction, assessment, and professional development.	P
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.	P
7	exhibit organizational skills, accountability, and ethical behavior.	P
8	apply skills needed in operating laboratory equipment for testing, assessing quality assurance for lab equipment, and adhering to standard safety practices in the laboratory environment.	P
9	apply problem-solving and decision-making skills.	P
10	apply and promote health policies and regulatory standards in the field career.	P
11	develop research in the field of medical analysis using qualitative and quantitative methods.	A

Prerequisites (Course Reading List and References):	A Guide to Specimen Management in Clinical Microbiology Book by J. Michael Miller Pathological Specimens And Genomic Medicine: Emerging Issues Specimen Science: Ethics and Policy Implications
Student's obligation (Special Requirements):	Students should attend in time and should take quiz every week. Should be respectfull and not disturbing the teacher neither thier collegues.
Course Book/Textbook:	A Guide to Specimen Management in Clinical Microbiology Book by J. Michael Miller Pathological Specimens And Genomic Medicine: Emerging Issues Specimen Science: Ethics and Policy Implications
Other Course Materials/References:	A Guide to Specimen Management in Clinical Microbiology Book by J. Michael Miller Pathological Specimens And Genomic Medicine: Emerging Issues Specimen Science: Ethics and Policy Implications
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Assignments, , ,

COURSE EVALUATION CRITERIA

Method	**Quantity**	**Percentage (%)**
Attendance	1	5
Participation	1	5
Quiz	1	5
Homework	1	5
Midterm Exam	1	30
Laboratory	1	5
Practical Exam	1	5
Final Exam	1	40
Total		**100**

Examinations: Essay Questions, True-False, Multiple Choices, Short Answers, Matching, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	1	16
Practical Hours	16	2	16
Final Exam	1	12	12
Attendance	1	10	10
Participation	1	10	10
Quiz	1	10	10
Homework	1	5	5
Midterm Exam	1	5	5
Laboratory	1	1	1
Practical Exam	1	10	10
Total Workload			**95**
ECTS Credit (Total workload/25)			**3.8**

Peer review

Signature:	Signature:	Signature:
Name:	Name:	Name:
Lecturer	Head of Department	Dean