TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Fall
Course Information for MA 503 CLINICAL TEST

Course Name:	CLINICAL TEST

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
MA 503	5	3	-	3	4

Name of Lecturer(s)-Academic Title:	Goran Nuri - MSc
Teaching Assistant:	No assistant (theory)
Course Language:	-
Course Type:	Area Elective
Office Hours	10-12 am on Wednesday
Contact Email:	goran.nori@tiu.edu.iq Tel:07500000000
Teacher's academic profile:	Medical microbiology
Course Objectives:	This course is designed to teach students the proper usage of the clinical laboratory. Emphasis is placed on hematology, clinical chemistry and virology interpretation and integration.
Course Description (Course overview):	This course is designed to teach students the proper usage of the clinical laboratory within the practice of chiropractic. Emphasis is placed on hematology, clinical chemistry and urology interpretation and integration with historical physical examination. The laboratory section will train students in laboratory case evaluation and recognition of histological normals and pathologies, as well as their utilities in diagnosis.

COURSE CONTENT

Week	Hour	Date	Topic
1	2	4-7/10/2021	Introduction to clinical tests
2	2	10-14/10/2021	Liver Function Tests
3	2	17-21/10/2021	cardiac function markers
4	2	24-28/10/2021	Inflammation markers
5	2	31/10-4/11/2021	kideny function tests
6	2	7-11/11/2021	oxidative stress markers
7	2	14-18/11/2021	Midterm Exam
8	2	21-25/11/2021	Midterm Exam
9	2	28/11-2/12/2021	Cancer markers
10	2	5-9/12/2021	autoimmune markers
11	2	12-16/12/2021	CSF readings
12	2	19-23/12/2021	COVID-19 laboratory tests
13	2	26-30/12/2021	pre-natal diagnosis tests
14	2	2-5/1/2022	Laboratory Tests of Gastrointestinal Disease
15	2	9-13/1/2022	Final Exam
16	2	16-20/1/2022	Final Exam

COURSE/STUDENT LEARNING OUTCOMES

1	Liver Function Tests
2	Kidney Function Tests
3	Inflammation markers
4	Oxidative stress marker
5	Acute phase proteins

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.	A
5	use technology effectively in the delivery of instruction, assessment, and professional development.	I
6	exhibit essential employability qualities by demonstrating laboratory safety, analyzing laboratory results, and displaying professional conduct.	I
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.	A
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):	Goldman-Cecil Medicine, 24th Edition, Elsevier Harrison\\\\\\\\\\\\\\\'s Principles of Internal Medicine, Twentieth Edition (Vol.1 &Vol.2) by Larry Jameson, J. , Anthony S. Fauci, et al. | Aug 13, 2018 Tilkian SM Clinical & Nursing Implications of Laboratory tests. 5th edition 1995.
Student's obligation (Special Requirements):	Fischbach F Manual of laboratory & Diagnostic Tests. 9th edition 2014.
Course Book/Textbook:	Sacher RA Widmann’s Clinical Interpretation of Laboratory Tests.11th edition 2000.
Other Course Materials/References:	Fischbach F Manual of laboratory & Diagnostic Tests. 9th edition 2014.
Teaching Methods (Forms of Teaching):	Lectures, Presentation, Assignments, , ,

COURSE EVALUATION CRITERIA

Method	Quantity	Percentage (%)
Attendance	1	5
Participation	1	10
Quiz	2	5
Homework	1	5
Midterm Exam		30
Midterm Exam(s)	1	30
Final Exam	1	40
Total		**100**

Examinations: Essay Questions, Short Answers, Matching, , ,

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	3	48

Practical Hours	16	0	0
Final Exam	1	2	2
Attendance	1	2	2
Participation	1	2	2
Quiz	2		0
Homework	1		0
Midterm Exam			0
Midterm Exam(s)	1		0
Total Workload			**54**
ECTS Credit (Total workload/25)			**2.16**

Peer review

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