

TISHK INTERNATIONAL UNIVERSITY
FACULTY OF APPLIED SCIENCE
Department of MEDICAL ANALYSIS,
-2022 Spring
Course Information for MA 304 ENDOCRINOLOGY

Course Name: ENDOCRINOLOGY

Code	Regular Semester	Theoretical	Practical	Credits	ECTS
MA 304	6	2	2	3	5

Name of Lecturer(s)- Academic Title: Zhikal Omer - MSc
Ramyar Kheder - Assistant Professor

Teaching Assistant: Mr. Muhammed

Course Language: English

Course Type: Main

Office Hours 4

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Teacher's academic profile: -----
PhD

Course Objectives: The purpose of taking this course is to learn the basic concepts and principles of endocrine system. Most of the lecture examples will be drawn from mammals, especially humans. This is because our understanding of the function of mammalian systems is better than it is for almost any other animal species. However, there are situations in which presentation of non-mammalian systems will enhance our understanding of endocrinology in general.

Course Description (Course overview): The purpose of taking this course is to learn the basic concepts and principles of endocrine system. Most of the lecture examples will be drawn from mammals, especially humans. This is because our understanding of the function of mammalian systems is better than it is of almost any other animal species. However, there are situations in which the presentation of non-mammalian systems will enhance our understanding of endocrinology in general.

COURSE CONTENT

Week	Hour	Date	Topic
1	2	6-10/2/2022	Introduction to Endocrinology and hormones.
2	2	13-17/2/2022	Hypothalamus: This organ connects your endocrine system with your nervous system, pineal gland
3	2	20-24/2/2022	Posterior pituitary
4	2	27/2-3/3/2022	Anterior pituitary
5	2	6-10/3/2022	Thyroid gland
6	2	27-31/3/2022	Parathyroid
7	2	3-7/4/2022	growth hormone and prolactin
8	2	10-14/4/2022	Midterm Exam
9	2	17-21/4/2022	Adrenal gland: cortex
10	2	24-28/4/2022	Adrenal gland: medulla
11	2	8-12/5/2022	Pancreas
12	2	15-19/5/2022	Female reproductive system
13	2	22-26/5/2022	Female reproductive system
14	2	29/5-2/6/2022	Hormone dependent cancer

15	2	5-9/6/2022	Final Exam
16	2	12-16/6/2022	Final Exam
COURSE/STUDENT LEARNING OUTCOMES			
1	Describe the structure and function of endocrine glands and their released hormones.		
2	Describe the structure, transporting and mode of action of hormones.		
3	Differentiate between the function of different endocrine glands.		
4	Elucidates how the mechanism of action of hypothalamus, pituitary, thyroid glands...etc will take place.		
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.		P
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.		A
4	formulate and implement acceptable treatment modalities to various disease states.		P
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.		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.		P
10	apply and promote health policies and regulatory standards in the field career.		I
11	develop research in the field of medical analysis using qualitative and quantitative methods.		P
Prerequisites (Course Reading List and References):		Human physiology	
Student's obligation (Special Requirements):		Attendance in lecture is expected. You are responsible for everything covered, mentioned, discussed and displayed in class. If you miss a class, get a classmate's notes as my notes will not be available. You cannot excel in this course if you do not come to class.	
Course Book/Textbook:		1. Harrison's Endocrinology, 4th edition by Harrison's Endocrinology, (2016) 2. The Endocrine System by Joy Hinson, Peter Raven and Shern L. Chew (2010) 3. The Endocrine System at a Glance 3rd Edition by Ben Greenstein, (2010) 4. Endocrine Physiology, Fifth Edition 5th Edition by Patricia E. Molina, (2018).	
Other Course Materials/References:		5-Marieb EN. Human Anatomy and Physiology. (9th ed. 2013) 6- Goodman HM. Basic Medical Endocrinology. (4th ed. 2009) Guyton AC. Textbook of Medical Physiology. (12th ed. 2011)	
Teaching Methods (Forms of Teaching):		Lectures, Presentation, Seminar, , ,	
COURSE EVALUATION CRITERIA			
Method		Quantity	Percentage (%)
Attendance		1	5
Participation		1	5
Quiz		1	10
Midterm Exam(s)		1	20
Lab/Practical Exam(s)		1	20
Final Exam		1	40
	Total		100
Examinations: Essay Questions, True-False, Fill in the Blanks, Multiple Choices, , ,			

Extra Notes:

ECTS (ALLOCATED BASED ON STUDENT) WORKLOAD

Activities	Quantity	Workload Hours for 1 quantity*	Total Workload
Theoretical Hours	16	2	32
Practical Hours	16	2	16
Final Exam	1	1	1
Attendance	1	1	1
Participation	1	1	1
Quiz	1		0
Midterm Exam(s)	1		0
Lab/Practical Exam(s)	1		0
Total Workload			51
ECTS Credit (Total workload/25)			2.04

Peer review

Signature:

Name:

Lecturer

Signature:

Name:

Head of Department

Signature:

Name:

Dean