

Kurdistan Region Government Ministry of Higher Education and Scientific Research Erbil Polytechnic University



Module (Course Syllabus) Catalogue

2022-2023

College/ Institute	Shaqlawa Technical College			
Department	Medical Laboratory Technology- Morning			
Module Name				
	Endocrinology			
Module Code	END602			
Degree	Technical Diploma Bachelor			
	High Diploma	Master PhD		
Semester	6 th			
Qualification	MSc. Biochemistr	MSc. Biochemistry		
Scientific Title	Lecturer	Lecturer		
ECTS (Credits)	5			
Module type	Prerequisite	Core Assist.		
Weekly hours	4			
Weekly hours (Theory)	(Two)hr Class	(65)Total hrs Workload		
Weekly hours (Practical)	(Two)hr Class (65)Total hrs Workload			
Number of Weeks	12			
Lecturer (Theory)	Hardi Rafat Baqi			
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	+964(0)7507175583			
Lecturer (Practical)	Hardi Rafat Baqi			
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Websites	https://moodle.epu.edu.iq/			

Course Book

	The Endocrinology course is aimed to provide a wide overview of human endocrinology from both a historic	
	view point and classical definitions of the science to the	
	contemporary modern understanding of the endocrines and	
	hormones. Course topics will be divided into two sections	
	(theory and practical) that cover introductions to the	
	concepts, endocrine glands, synthesis and release of	
Course	hormones, mechanisms of action and regulation of	
Description	hormone secretion, as well as various aspects regarding the	
	anatomy, biochemistry and physiology of the endocrine	
	systems and the pathophysiology, epidemiology, and	
	treatment of various endocrine diseases. These topics will	
	equip the students with the basic knowledge to understand	
	the normal function of the endocrine system and will	
	introduce basic principles of clinical diagnosis and	
	management of endocrine disorders.	
	The main objectives of this course are to make students	
	understand some of the basic endocrinology and the fundamental concepts involved in the synthesis release	
	fundamental concepts involved in the synthesis, release, activation, and regulation of organismal homeostasis and	
Course objectives	metabolism by the hormones of the endocrine system.	
	Also, make the students familiar to the methods of	
	endocrine system is regulation, and how to diagnose and	
	treat endocrine diseases.	
	Students attending Endocrinology course need to:	
Student's	1- Attend the scheduled classes whether on campus or	
obligation	online.	
3	2- Read the course documents (lectures): It is important	
	that students read all course documents (e.g., syllabus, assignments) to become familiar with course expectations.	
	userSimilarité) té écécente futilitur trui écurse expéctations.	

	This	s will allow st	udents the a	bility to :	
	This will allow students the ability to properly plan for all course activities.				
	3- Participate in all activities related to the course				
	incl	including: practical experimentations, presentations,			
	reports, discussions, quizzes, and exams.				
	4- Success in the assigned assessments with a minimum				
	grade of 60%.				
Required	- Printouts of weekly lectures taught at the college				
Learning	cam	campus (Theoretical and Practical).			
Materials	- Re	- Reviewing of internet			
	- Pro	- Proper laboratory (Chemistry, Clinical Chemistry, or			
		Biochemistry).			
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		emicals and r	-		
		boratory glass	<u> </u>		
Forms of					ough presenting the
teaching		•			or electronically by
	recorded videos. Students attending the class can share				
	their thoughts and ask the lecturer any questions they want.				
	The practical section of the subject is taught in the lab				
	where students need to do practical experimentations and				
	report their results.				
				D	
		Task	Weight	Due	Relevant
				Due Week	Learning
		Task	Weight		
	Pa	Task per Review	Weight (Marks)		Learning Outcome
	Pa	Task	Weight		Learning Outcome Encourages
		Task per Review	Weight (Marks)		Learning Outcome
Evaluation		Task per Review	Weight (Marks)		Learning Outcome Encourages students to search for more detailed
Evaluation		Task per Review	Weight (Marks)		Learning Outcome Encourages students to search for more detailed knowledge
Evaluation		Task per Review	Weight (Marks)		Learning Outcome Encourages students to search for more detailed knowledge relevant to the
Evaluation		Task per Review	Weight (Marks)		Learning Outcome Encourages students to search for more detailed knowledge relevant to the topics taught at
Evaluation	Pa Assignments	Task per Review Homework	Weight (Marks) 5%		Learning Outcome Encourages students to search for more detailed knowledge relevant to the
Evaluation		Task per Review	Weight (Marks)		Learning Outcome Encourages students to search for more detailed knowledge relevant to the topics taught at

	Report	10%	ReporttheirweeklylaboratoryworkEnhancesthepreparationand
	Essay		presenting skills of the studentsTo make students engage more with their favorite topics
	Project		
	Quiz	8%	To encourage students, study every week.
	Lab. report	10%	To make students practice obeying the laboratory rules including scientific, safety, attitude, and ethics.
	Midterm Exam	25%	To evaluate students and their achievements at the middle of the term.
	Final Exam	40%	Final evaluation and assessment.
	Total	100%	
Specific learning outcome:	At the end of the course, students should be familiar with the basic concepts in endocrinology including the importance and applications of endocrinology in clinical		

	pathology. Besides, students should have learned the following topics/concepts:		
	hormones, hor regulation. 2- Using hormonal 3- Getting familiar used in hormona 4- Getting familiar	monal secretion tests as a power with the techn l analysis. with the endocr on sites and the	ful tool for diagnosis. iques end equipment ine system, and other eir relationship to the
Course References:	 Books: 1. William's textbook of endocrinology, fourteenth edition (Shlomo Melmed). 2. Greenspan's Basic and Clinical Endocrinology (David G. Gardner, Dolores M. Shoback). 3. Lehninger principles of biochemistry, fourth Edition by David L. Nelson and Michael M. Cox 4. Biochemistry, fourth edition by Donald Voet and Judith G. Voet Magazines and internet review 		
Course topics (The	eory)	Week	Learning Outcome
Principles of endocr	Principles of endocrinology		
Principles of hormone action		3,4	
Hypothalamus and pituitary gland		5,6	
The thyroid gland		7	
Adrenal medulla an	d paraganglia	8	
Female reproductive infertility	e endocrinology and	9,10	

Pancreatic hormones and diabetes mellitus	11,12	
	Week	Learning Outcome
Introduction to the endocrinology	1	
laboratory		
1- TRH, TSH tests	2, 3	
2- T4 test		
3- T3 test		
1- Testosterone test	4,5	
2- Progesterone test		
3- Estrogen test		
1- GH test	6,7,8	
2- LH test		
3- FSH test		
4- ACTH test		
1- Prolactin test	9,10	
2- Procalcitonin test		
1- Vitamin D test	11	
1- Insulin test	12	
2- Glucagon test		

Questions Example Design (theoretical and practical exam):

All of the activities provided in the workload section are considered when awarding you a grade for this course. In order to pass this course, you will need to earn a 60% or higher on the final exam. Your score on the exam will be calculated as soon as you complete it. If you do not pass the exam on your first try, you may take it again in the second trial.

- Type of the exam (composition and multiple choice)
- Exam's duration (for example one hour)
- The number of the questions: at least four questions. The marks distributed evenly throughout.

I- *Compositional:* In this type of exam the questions usually starts with Explain how, What are the reasons for...?, Why...?, How....?

Example:

- 1- Define endocrinology.
- 2- How hormones do their actions?
- II- Multiple choices.

In this type of exam there will be a number of phrases next or below a statement, students will match the correct phrase.

Extra notes:

External Evaluator