Course Specification
Student Version

Course Title:	Endocrine System
Course Code:	ENS 306
Department:	Basic Medical Sciences
Program:	Bachelor of Medicine and Surgery
College:	Vision College in Riyadh
Institution:	Vision College in Riyadh
Revised:	June 2025

A. Course Identification

1. Credit hours: 4 (2+1+1)
2. Level/year at which this course is offered: Level 6/Year 3
3. Pre-requisites for this course (if any): HBO 203, BAN203, GAD 203, MBG 203, BPC204, PDO204, HBT 204 and PDT204
4. Co-requisites for this course (if any): None

B. Teaching Methods

1	Lecture
2	Practical Sessions
3	Seminar

C. Course Description and Objectives

1. Course Description

This course would give students a clinically oriented grasp of the normal structure, function, pathologic abnormalities, and the management of common endocrine disorders. This block deals with the mechanisms and biochemistry of important hormones, pathogenesis and treatment of common endocrine diseases. Students will learn how the endocrine system controls the body and how the hormone release has profound effects on the cells, tissues, and the physiology of the body. The course enforces the students to learn theoretical knowledge of the endocrine system in correlation with clinical aspects during PBL and skill lab sessions. It mainly adopts teaching through interactive lectures, small group teaching, and practical and skill lab sessions. The assessment will utilize multiple tools to evaluate students in all three domains. However, written exam and OSPE shall be the main tools for this purpose.

2. Course Main Objective

T The main purpose of this course is to provide the students with comprehensive information about the structure, function, pathological abnormalities, biochemistry and mechanisms of hormone action of major endocrine gland in correlation with a flavor of clinical background and treatment of the common endocrine disorders.

3. Course Objectives

By the end of this course, students should be able to:

- Describe the normal microscopical and gross structure of various parts of the body including blood and nerve supply, origin, and insertion of muscles.
- Apply knowledge of anatomical structures to analyze and interpret clinical case studies or medical imaging.
- Describe the function of various body organs and systems and the endocrine and neural control of these functions.
- Analyze case studies of infectious diseases and describe the specific pathogen, mode of transmission, and immune response involved.
- Describe the mechanism of action of common medications.

- Perform a structured comprehensive history taking including systems review, family, past, social, and occupational history.
- Perform a full structured body system (nervous, cardiovascular, respiratory, gastrointestinal, musculoskeletal, renal, obstetric) physical examination on a mannequin or simulated patient.
- Demonstrate inspection, palpation and percussion skills of various body systems identifying pertinent positive and negative findings.
- Demonstrate effective debating and probing techniques while interacting with colleagues during PBL or simulated patients in OSCE.
- Explain and interpret the principles of essential clinical investigations.
- Demonstrate positive group dynamics and teamwork skills during PBL, Seminar and Collaborate with other colleagues during projects and group work OSCE. SKU
- Collaborate with other colleagues during projects and group work
- Create a self-development plan with milestones.

D. Course Content

No	List of Topics
1	Introduction to endocrine system
2	Hypothalamic-pituitary axis
3	Thyroid & parathyroid glands
4	Endocrine pancreas
5	Suprarenal gland
6	Endocrine gonads

E. Assessment Tools

#	Assessment task	Percentage of Total Assessment Score
1	Seminar Evaluation Using Rubrics	10%
2	Quizzes	10%
3	Midterm Exam	20%
4	Final Practical Exam	20%
5	Final Written Exam	40%
	Total	**100%**

F. Learning Resources

Essential References	• Anatomy, Snell 6th edition, 2009, Keith Moore. • Textbook of Medical Physiology. Guyton and Hall, 12th edition. Elsevier's Saunders.

	• Robbins and Cotran; Pathological Basis of Disease. Kumar, Abbas, Fausto and Aster, 8th edition, Saunders. • Basic & Clinical Pharmacology. B. G. Katzung, 12th edition. McGrow-Hill. Junqueira's basic histology: Text and Atlas, 13th edition
Supportive References	Endocrine system: Anatomy, Facts & Functions https://www.emedicinehealth.com/anatomy_of_the_endocrine_system/article_em.htm Endocrine system: Theoretical lectures http://www.lumen.luc.edu/lumen/MedEd/medicine/endonew/endo.htm
Electronic Materials	• https://www.innerbody.com/image/endoov.html https://www.visiblebody.com/learn/endocrine/glands
Other Learning Materials	None