

دانشگاه علوم پزشکی و خدمات درمانی استان چهار محال و بختیاری

**Course Plan**

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| **Course Title:** Anatomy of the Endocrine System Theoretical & Practical |

**Year: 1402-1403-1**

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| **Faculty: Medicine Department:**  Department of Anatomical Sciences |

**Course details:**

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| |  | | --- | | **Course Title:** Anatomy of the Endocrine System Theoretical & Practical  **Course Code:** 213 theories, 214 practical | | |  | | --- | | **Location and time of teaching the course:** Saturday 13-15 Practical, Tuesday 13-15 | |
| |  |  | | --- | --- | | **M.D. program Course Syllabus** |  | | **Location:** Class 188, faculty of medicine |
| |  | | --- | | **Credit Units:**0.28 Theo. and 0.12 Prac. | |  |
| |  | | --- | | **Prerequisite :** Introduction to anatomical sciences | |  |
| |  | | --- | | **Instructor :** Dr. Maryam Anjomshoa | |  |
| |  | | --- | | **Office address:** Faculty of Medicine, Department of Anatomical Sciences | | |

**The overall goal of the course encompasses three areas: knowledge, attitude, and skills:**

This course covers the endocrine system from the standpoints of embryology, anatomical structure, and histological features of endocrine organs.

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| **Learning outcomes:** |

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| On satisfying the requirements of this course, students will have the knowledge and skills to:  1. Explain the anatomical position and relations of endocrine glands.  2. Identify and describe the major histological structures of hypophysis gland.  3. Discuss the histological structural of adrenal gland.  4- Describe the major histological structures of thyroid and parathyroid glands.  5- Identify and describe the major histological structures of pineal gland and endocrine part of pancreas.  6- Describe the development of endocrine glands.  7- Discuss some clinical points related to endocrine system.  8- Discribe the histological structure of integument (skin and accessories: Hair, nail, sweat glands and sebaceous glands  9- Describe the development of skin |

**References:**

Snell's ClinicalAnatomy (Latest Edition)

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| Gray's Anatomy for Students (Latest Edition)   |  |  | | --- | --- | | Basic histology: Text & Atlas (chapter 18 and 20) By: Junqueira, LS & Carneiro, J (Latest edition).   |  | | --- | | Langman’s Medical Embryology by: T. W. Sadler (Latest Edition)  Wheater’s Functional Histology: A Text and Color Atlas. Barbara Young (Latest Edition).  [Sobotta Atlas of Anatomy](https://www.amazon.com/Sobotta-Atlas-Anatomy-Package-English/dp/070205268X)  [Netter Atlas of Human Anatomy](https://www.amazon.com/Netter-Atlas-Human-Anatomy-paperback/dp/0323680429) | | |

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| **ASSESSMANT TOOLS :**  **Theory:**  **Final exam 19**  **Class activities 1**  **Total Mark 20**  **Practical:**  **Final exam 18**  **Class activities 2** |

**Teaching methods:**

In theoretical sessions, topics are presented in the form of PowerPoint presentations. In practical sessions, the subjects from the theoretical classes are taught. In the anatomy section, models and cadavers are used, and in the histology section, histological slides are taught using a microscope and various histology atlases.

**Student´s responsibilities:**

Responsibilities of learners: By the end of this course, learners are expected to have a correct understanding of all topics related to the anatomy of endocrine glands and skin, as well as a comprehensive understanding of specific subjects within the field of study. These responsibilities include: Attending classes regularly and punctually. Actively participating in teaching sessions.

**Attendance rules:**

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class.

1. Missing one session will result in a first written warning. Missing two or more sessions will result in a 0.25-point deduction from the final score for each session.
2. Missing more than three sessions will result in forfeiture of the course, and the student will not be permitted to attend the final examination. If a student encounters any special circumstances (e.g., medical or personal), they are encouraged to discuss this with the instructor, and written proof will be required to excuse any absences from their attendance records.
3. In the laboratory, lab coats are mandatory. No student will be allowed in the lab without a clean lab coat. Students are expected to conduct themselves in a respectful and civil manner, acknowledging the rights and opinions of other students and the instructor. Student-instructor interaction is integral to the learning experience and should be approached in a manner conducive to the learning process.
4. The use of mobile devices, laptops, and similar items during class can cause unexpected noises and distractions, diverting and capturing people's attention. This means that you are affecting everyone's learning experience if your cell phone, laptop, or similar device makes noise or is visually distracting during class. Therefore, students are required to turn off their mobile devices and close their laptops during class.

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| **COURSE SYLLABUS** | | | | | | |
| Necessary preparation of students before starting the class | Methods of teaching | Teacher | Course topics | Times (hours) | Date |  |
| Study histology in the introduction of Anatomical sciences course, especially focusing on the study of epithelial and connective tissues. | presentation using PowerPoint (slides prepared from reference books), PBL and TBL methods." | Dr. Maryam Anjomshoa | Histology of Endocrine glands:  Hypophysis  Hypothalamus  Epiphysis  Thyroid  Parathyroid  Langerhans Island  Adrenal | 2 | 1402/1/7 | 1 |
| Study the general embryology topic presented in the first semester in the introduction of anatomical sciences course | presentation using PowerPoint (slides prepared from reference books), PBL and TBL methods." | Dr. Maryam Anjomshoa | Embryology of endocrine glands | 2 | 1402/7/4 | 2 |
| Studing f Anatomy terminalogy | presentation using PowerPoint (slides prepared from reference books), PBL and TBL methods." | Dr. Maryam Anjomshoa | Anatomy of Endocrine glands | 2 | 1402/7/8 | 3 |
| Study histology in the introduction of Anatomical sciences course, especially focusing on the study of epithelial and connective tissues. | presentation using PowerPoint (slides prepared from reference books), PBL and TBL methods." | Dr. Maryam Anjomshoa | Histology of skin and its appendage | 2 | 1402/7/15 | 4 |
| Study the general embryology topic presented in the first semester in the introduction of anatomical sciences course | presentation using PowerPoint (slides prepared from reference books), PBL and TBL methods." | Dr. Maryam Anjomshoa | Embryology of skin and its appendage | 2 | 1402/7/18 | 5 |
| Practical sections | | | | | | |
| Studing of Histology and anatomy of endocrine glands | Study of histologic slides by light microscope, and anatomy by Moulage and cadaver | Dr. Maryam Anjomshoa | Examination of histologic slides related to endocrine glands and anatomy of endocrine | 2 | 1402/8/6 | 1 |
| Studing of Histology of skin |  | Dr. Maryam Anjomshoa | Examination of Histologic Slids from skin | 2 | 1402/8/20 | 2 |