In the name of GOD

Tabriz University of Medical Sciences

Course Guide for Anatomical Sciences – Special Senses

Course Code: 109

Course Instructor: Dr. Kobra Valaei **Contact Number / Student Access: 33342086**

Prerequisite or Corequisite: Introduction to Anatomical Sciences

Course Credits: 0.92 **Course Type: Theoretical / Practical**

Program Level: Doctor of Medicine (M.D.) **Number of Sessions: 9**

Course Duration: According to the academic calendar

Class Schedule: Mondays and Wednesdays

Classroom Location: School of Medicine classrooms **Virtual Class Link: — (M.D.)**

Other Instructors:

First Name	Last Name	Academic Rank	Department	Preferred Method of Contact
Kobra	Valaei	Assistant Professor	Anatomical Sciences	In-person
Alireza	Ali Hemmati	Professor	Anatomical Sciences	In-person

General Objective of the Course

Cognitive Domain:

At the end of this course, the student should be able to identify the following structures and understand the importance of their key clinical and radiological features:

1. The anatomical structure of the orbit, eyeball, and accessory organs of the visual system.
2. The blood vessels and nerves of the eye and accessory visual organs.
3. The anatomical structure of the external, middle, and internal ear.
4. The surface and radiological anatomy of the visual and auditory–vestibular systems.
5. The microscopic structure of the eye and its accessory organs.
6. The microscopic structure of the ear.
7. The developmental process of different parts of the visual system.
8. The developmental process of different parts of the auditory–vestibular system.
9. The congenital anomalies of the visual and auditory–vestibular systems.

Psychomotor (Skill) Domain:

1. Identify the clinically important parts of the visual system (orbit, eyeball, and its appendages) in cadavers and models.
2. Identify the clinically important parts of the auditory–vestibular system (external, middle, and internal ear) in cadavers and models.
3. Recognize the surface landmarks of the main clinical regions of the visual and auditory–vestibular systems on a living subject or cadaver.
4. Interpret and identify the main clinical parts of these two systems on radiographic images.
5. Observe and identify eye movements in a living subject and determine their neuromuscular correlations.
6. Identify the histological structure of different parts of the visual and auditory–vestibular systems under the microscope.

Specific Objectives of the Course

It is expected that upon completion of this course, learners will be able to:

1. Describe in full detail the anatomy of the orbit, eyeball, and accessory organs of the visual system.
2. Comprehensively learn and explain the blood vessels and nerves of the eye and the visual system.
3. Identify and describe in detail the external, middle, and internal ear.
4. Explain in detail the histology of the ear and the eye.
5. Describe step by step the development of the visual system.

6. Describe step by step the development of the auditory system.
7. Learn and apply the clinical and radiological anatomy of the eye and ear.
8. Describe in detail the visual and auditory neural pathways.

Method of Instruction

1. The theoretical sessions are held in the classroom in the form of lectures according to the schedule announced at the beginning of the course.

2. The practical sessions are conducted through hands-on work with cadavers, anatomical models, and osteology specimens.

Student Evaluation Method

- Written and MCQ Exam: 12 points
- Practical Exam (Cadaver Work): 8 points
- Minimum Passing Grade: 10
- Allowed Absence Hours: 0
- Allowed Excused Absence Hours (with instructor's approval):
  According to the approved educational regulations, the maximum excused absence is:
  - 4/17 of total hours for theoretical courses
  - 2/17 of total hours for practical and laboratory courses
  - 1/17 of total hours for apprenticeship and internship courses

Educational Resources

- Clinical Anatomy by Region. R.S. Snell, 11th Edition, 2024
- Junqueira's basic histology. Anthony L. Mescher. McGraw-Hill Education. 17th edition, 2024
- Langman's medical Embryology. T.W. Sadler. Lippincott Williams & Wilkins. 15th Edition, 2022

Contact Information

Instructor and Course Coordinator: Dr. Kobra Valaei

Educational Officer: Ms. Nadia Keyvani – 33342086

Full Name and Signature of the Course Instructor	Full Name and Signature of the Department Head	Full Name and Signature of the Office of Development Coordinator