

**AL-Nahrain University – College of Medicine  
Department of Human Anatomy  
Undergraduate Studies-2024**

**Subject:** Human Anatomy

**Year:** 2<sup>nd</sup> year Students

**Credit hours:** 6 hours (3 hours theory & 6 hours practical / week)

**Lectures Times:**

Sunday, Monday, Tuesday

**Location:**

- A ..... قاعة المعرفة مجموعة
- B ..... قاعة العلم مجموعة

**Lab. Time:**

Sunday, Monday, Tuesday, Wednesday

**Lab. Location**

Central Anatomy lab. Building No.1

**Course Co-ordinator:** Ass.Prof.Dr.Thaer M. Farhan;

[aljomaili2005@nahrainuniv.edu.iq](mailto:aljomaili2005@nahrainuniv.edu.iq)

**Teaching Team :**

- Ass. Prof. Hayder H. Abdulameer
- Ass.Prof. Dr. Thaer M. Farhan

Instructor:

- Dr. Abdullah M.
- Dr. Omeed H.

**1. Intended - Learning objectives- ILO:**

**Neuroanatomy:** The course is designed to enable the student to

1. Identify the parts and components of CNS on dissections and prosections
2. Realize the basic Knowledge on CNS organization and topography
3. Identify major cortical and subcortical features of the brain and discuss their functional significance, including their involvement in select pathways
4. Highlight the clinical significance of neuroanatomical structure
5. Establish working knowledge of cross sectional anatomy of CNS and relevant applications.
6. Pay attention to orient the medical students for functional neuroanatomy and understand the principles for clinical correlate of neurologic disorders.
7. 7. Apply problem-solving and critical thinking techniques to apply anatomical theory to common clinical scenarios (e.g., lesion localization and associated deficits)
8. Demonstrate professional respect and responsible care of human specimens

**Head and neck:**

1. Describe the topography of the head and neck
2. Teach the students different anatomical structures and organs with their important relations in head and neck

3. Provide surface markings of anatomical structures on the body wall.
4. Emphasize the clinical significance of anatomical structures and relations facilitating the understanding of a disease process or surgical procedure on anatomical grounds
5. Provide the anatomy essential to understand clinical procedures in the examination of head and neck structures
6. Direct the anatomical knowledge towards the appearance of structures when they are imaged in radiographs
7. Make easier description of the neurovascular anatomy by cadaveric as well as angiographic and imaging methods.
8. Medical students' satisfaction with the course contents and their future career.

## 2. Syllabus

W	Topics		Practical
1	1. briefing and orientation for medical students about the neuroanatomy & head and neck course 2. Gross anatomy of brain & medullary centers. 3. Functional localization of cerebral cortex I.		1. Osteology of skull, the normal views. 2. Interior of skull.
2	4. Functional localization of cerebral cortex II 5. Brain stem I. 6. Brain stem II & reticular formation.		3. Gross anatomy of brain. 4. Functional localization of cerebral cortex
3	7. Meninges. & Ventricles of the brain with clinical correlate 8. Blood supply of the brain. with angiography 9. Limbic system with clinical correlate		5. Brain stem. 6. Meninges & dural venous sinuses.
4	10. Cerebellum. 11. Diencephalon. 12. Basal ganglia.		7. Ventricles of brain. 8. Blood supply of CNS.
5	13. Spinal cord I: gross and sectional anatomy 14. Spinal cord II. Ascending and descending pathways 15. The extracranial course of cranial nerves.		9. Cerebellum. & Basal Ganglia 10. Spinal cord.
6	16. Sectional & imaging anatomy of the CNS 17. Surface anatomy, planes and fascia of the neck. 18. Posterior triangle of neck.		11. Sectional & imaging anatomy of brain. 12. Osteology of cervical vertebrae
7	Midterm Examination		Midterm Examination
8	Midterm Examination		Midterm Examination
9	19. Anterior triangle of neck. 20. Thyroid and parathyroid glands. Viscera of neck. 21. Nerves & Blood vessels of the neck.		13. Surface anatomy and planes of the neck. 14. Posterior triangle of neck.

10	22. Prevertebral & suboccipital regions. 23. Root of the neck. 24. Clinical anatomy of the pharynx.		15. Anterior triangle of neck. 16. Thyroid & parathyroid gland
11	25. Clinical anatomy of the larynx. 26. The scalp & muscles of face. 27. Nerves & vessels of face.		17. Nerves and Vessels of the neck. 18. Prevertebral & suboccipital region & The root of neck.
12	28. Parotid region. 29. Infratemporal fossa 30. Ptyregopalatine fossa.		19. The pharynx. 20. The larynx.
13	31. Temporomandibular joint & palate. With clinical correlates 32. Mouth & submandibular region. 33. clinical and applied anatomy of the ear		21. Scalp, face, parotid region. 22. Infratemporal region & ptyregopalatine fossa.
14	34. The nose & paranasal sinuses. 35. The orbit. & the eyeball 36. Applied anatomy of lymphatic drainage of head & neck		23. TMJ & submandibular region & Mouth & palate. 24. The nose & paranasal sinuses
15	37. Sectional & imaging anatomy of the head & neck 38. Case scenario & problem solving for head and neck anatomy 39. Overview.		25. The orbit and eyeball. 26. The cranial nerves Imaging & radio-anatomy of head and neck.

## 2. Marks Allocation

Theory	14
Practical	8
Assessment	5 quizzes + 3 seminars
Total Average	30
Final Theory	50
Final Practical	20
Total Grad	100%

## Practical Exam: Two steps( OSPE)

Multi-Stations exam + PowerPoint slides Exam (clinically oriented)

## 3. Books and references:

### Textbooks:

- Moore KL & Dalley AF (2022): Clinically Oriented Anatomy. 9th Ed. Lippincott Williams & Wilkins. Philadelphia
- Snell R (2018): Clinical Neuroanatomy. 8th Ed. Lippincott Williams & Wilkins. Philadelphia

### References:

- Moffatt DB (1993): Lecture notes on anatomy. 2<sup>nd</sup> ed., Blackwell publications. Oxford
- Snell RS 10<sup>th</sup> edition (2018): Clinical anatomy for medical students. 6th Ed. Williams & Wilkins. Philadelphia
- Wilkinson: neuroanatomy for medical students

- Barr & Kiernan: the human nervous system
- MRI of the brain and spine (CD)
- McMinn's head and neck anatomy (CD)
- McMinn's color atlas of human anatomy (CD)
- McMinn & Abrahams's clinical atlas of human anatomy (CD)
- Weir J & Abrahams P: Imaging atlas of the human body (CD)
- Netter's Interactive Anatomy (CD)
- Grant's atlas of anatomy (CD)

**Department policies:**

In any course assessment (e.g., quiz, assignment) in a course administered by the Department of Anatomy may only be deferred in the case of a **justified absence** due to serious illness or significant conditions, when **valid documentation** is received by the Course Coordinator within **FIVE working days** of the original exam or assessment due date.

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