# Anatomy, Histology and Embryology of the nervous system theoretical course plan

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| **Semester:** 2rd | **Year:** 2024-2025 |
| **M.D. program Course Syllabus** | |
| **Course Title:** Anatomy, Histology and Embryology of the nervous system theoretical | **Department:** Department of Anatomical Sciences |
| **Course Code: 1234049** | **Instructor: Dr. Homayoun _ Dr. khanehzad** |
| **Location of teaching the course: SH. Soleimani department** | **Credit Hours:** Saturday 8-10 AM |
| **Prerequisite:** | **Credit Units:** |
| **Office address:** Faculty of Medicine, Department of Anatomical Sciences | |
| **Tel:** 031- 37929158 | **Email:** homayoun.m@med.mui.ac.ir<br>m.khanehzad@ med.mui.ac.ir |
| **Number of students :** | |

**Brief course description:**

This course covers the nervous system from the standpoints of embryology and anatomic, histologic structure and .clinical points of nervous system

**Learning outcomes:**

On satisfying the requirements of this course, students will have the knowledge and skills to:

1- Explain the anatomical position and relations of nervous system (spinal cord, Brain stem, cerebellum, Cerebral hemisphere, Limbic system, Autonomic nervous system
2- Discuss some clinical points related to anatomical nervous system
3- Describe the major histological structures of nervous system (spinal cord, cerebellum, ..)
4- Describe the key events in each developmental period of nervous system
5- Discuss some clinical points related to nervous system development

**References (Text books):**

Human Neuroanatomy(inderbir singh), Hand-out

**ASSESSMANT TOOLS**

**(The assessment tools that will be used to test students ability to understand the course material and gain the skills and competencies stated in learning outcomes)**

| ASSESSMENT TOOLS | From 20 |
|---|---|
| Midterm Exam | 6 |
| Final Exam | 9 |
| Practical Exam | 3 |
| Class activities | 2 |
| **TOTAL MARKS** | 20 |

**Students responsibilities:**

1- Prepare for the class in advance
2- Break down every system into its basic components.
3- Use the lectures outline (PowerPoint presentations) and handouts (if any) as a guideline for your study.
4- Study the course components using the required book, atlas and the websites.
5- Reconstruct the system so that it is functional and understandable.
6- Students are expected to spend 2-3 hours studying for each hour in class.
7-By now the students are expected to end up with an understanding of the subject.
8-The students' understanding will be evaluated and given a grade using MCQs and\or any form of evaluation.

**ATTENDANCE RULES**

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

- **Absence of one session will result in a first written warning. Absence of two sessions or more will result in a 1 point deduction on the final score for each session.**
- **Absence of more than three session will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.**

**In laboratory, lab coats are mandatory, no student will be allowed in the lab without a clean lab coat. Students are expected to act in a civil manner and respect the rights and opinions of other students and the instructor. Student/Instructor interaction is a function of the learning experience and should be approached in a manner conducive to the learning process.**

**Use of Mobile Devices, Laptops, etc. During Class, unexpected noises and movement automatically divert and capture people's attention, which means you are affecting everyone's learning experience if your cell phone, laptop, etc. makes noise or is visually distracting during class. For this reason, students are required to turn off their mobile devices and close their laptops during class.**

**Department' s Attitudes**

**Ethics, Critical thinking, hard work and discipline:**

Examination attitudes Any evidence of cheating on a test will result in the student receiving (0 mark) for the test and will be announced through the lectures so all the students will be informed.
The instructor will be the final authority on whether cheating has occurred.
Cellular phones and notebooks are band and disruptive and are not allowed during the exam periods because they mean an act of cheating, therefore students are advised to enter the exams without them.

Mid exam date: Final exam date:

## COURSE SYLLABUS

| | Chapter | Page | Course topics | Time (Hour) | Date |
|---|---|---|---|---|---|
| | | | Histology Of Nervous System | 2 | 08/2/2025 |
| | | | Histology & embryology Of Nervous System | 2 | 15/2/2025 |
| | | | embryology Of Nervous System | 2 | 22/2/2025 |

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|---|---|---|---|---|---|
| | | | Spinal cord part 1<br>Gross appearance | 2 | 01/03/2025 |
| | | | Spinal cord part 2<br>Gray & white matter | 2 | 08/03/2025 |
| | | | Brain stem<br>Gross appearance | 2 | 15/03/2025 |
| | | | Brain stem<br>Internal structure | 2 | 05/04/2025 |
| | | | Cranial nerve 1 | 2 | 12/04/2025 |
| | | | Cranial nerve 2 | 2 | 19/04/2025 |
| | | | Cerebellum | 2 | 26/04/2025 |
| | | | Diencephalon | 2 | 03/05/2025 |
| | | | External features of Cerebral hemisphere | 2 | 10/05/20225 |
| | | | White mater of Cerebral hemisphere | 2 | 17/05/2025 |
| | | | Basal nuclei | 2 | 24/05/2025 |
| | | | Blood supply | 2 | 31/05/2025 |
| | | | Autonomic nervous system | 2 | 07/06/2025 |