

**AL-FARABI KAZAKH NATIONAL UNIVERSITY**  
**Medicine and Health Care Faculty**  
**Higher School of Medicine**  
**Department of Fundamental Medicine**

**Schedule of Independent work of students (IWS)**  
**“Morphology and human physiology”**  
**(12 credits)**

**Fall semester, academic year 2023-2024**

| № | IWS tasks   | Execution form of IWS | Deadlines (school week) | Points |
|---|---|-----------------------|-------------------------|--------|
| 1 | <p>"The role of facial muscles in various facial expressions." To perform this group independent work, you need to divide into groups of 5 people.</p> <p>Take a picture of your facial expression, showing one of the emotions: fear, anger, joy, sadness, surprise, contempt, and so on.</p> <p>In the photo, draw the direction of the muscle fascicles of each muscle that is involved in this facial expression.</p> <p>Sign each muscle.</p> <p>Your photo must be of high quality, and your face must take up at least 90% of the entire photo.</p>  | Presentation-report   | 7 week                  | 5      |
| 2 | <p>"Nerve blocks of the face"</p> <p>Background: Before drilling on a patient's tooth, a dentist typically gives the patient a shot of local anesthetic, such as procaine hydrochloride or lidocaine. The injection is given in the mouth near the location of nerves that innervate the particular tooth. When the anesthetic reaches the neurons, certain regions of the face, mouth and tongue lack sensation or become numb. The drug works by blocking neurons communicating with the CNS. The brain is unaware of the presence of painful stimuli in the mouth. Search for some knowledge concerning the voltage-gated sodium channels in neurons and discuss the mechanism of action for the numbing procedure with the teacher. Draw a diagram to describe the nerves associated with regional blocks of facial and dental pain and the bony marks of</p> | Presentation-report   | 15 week                 | 5      |

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|---|--|--|--|
| <p>injection sites with your anatomical knowledge. Work in a team. Conduct research, Summarize and present it in the form of a report or presentation.</p> <p>Source:</p> <p>1.<a href="https://www.nysora.com/techniques/head-and-neck-blocks/nerve-blocks-face/">https://www.nysora.com/techniques/head-and-neck-blocks/nerve-blocks-face/</a></p> <p>2.<a href="https://pdfs.semanticscholar.org/15f9/1c205b5e09554d40b8c5a333e5018e4b6bfc.pdf">https://pdfs.semanticscholar.org/15f9/1c205b5e09554d40b8c5a333e5018e4b6bfc.pdf</a></p> |  |  |  |
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To perform the IWS, both the recommended course literature and sources are used, as well as those found independently. The IWS is delivered strictly on schedule. In case of valid circumstances (if there is documentary evidence), the IWS may be accepted outside of the schedule.

### Evaluation sheet of the student's independent work

| <b>1. Material design</b>  |   |   |
|--|---|---|
| <b>25 points</b><br>Designed in accordance with general and technical requirements, including a list and references to the literature used | <b>24-17 points</b><br>Designed in accordance with general and technical requirements, incorrectly designed or not provided references to the literature used | <b>16-0 points</b><br>Designed carelessly, there are violations in the structure of the material, there are no references to the sources used |
| <b>2. The content of the material and its informativity</b>  |   |   |
| <b>25 points</b><br>Corresponds to the topic and task. All the necessary information has been fully conveyed.                              | <b>24-17 points</b><br>Partially corresponds to the topic/task. Overloaded with material, or there is not enough information.                                 | <b>16-0 points</b><br>Does not correspond to the topic/task.  |
| <b>3. The amount of work</b>   |   |   |
| <b>25 points</b><br>The work is a finished work. All sections/components are presented   | <b>24-17 points</b><br>Up to 50% of the work has been completed. The main sections/components are presented   | <b>16-0 points</b><br>Up to 30% of the work has been completed. The main sections/components are presented                                    |
| <b>4. Mastery of material</b>  |   |   |
| <b>25 points</b><br>Fluency in the material  | <b>24-17 points</b><br>Incomplete knowledge of the material. The information was reported with inaccuracies.  | <b>16-0 points</b><br>The work performed does not reflect the mastery of the material   |