

<b>Subject:</b>	<b>ANATOMY WITH HISTOLOGY</b>
<b>Study Program:</b>	Three-year professional studies for graduate logopedists
<b>Code:</b>	SL-115
<b>Academic Year:</b>	First
<b>Semester:</b>	First
<b>Total Classes:</b>	70
<b>Credits:</b>	5.5
<b>Type of Subject:</b>	Compulsory
<b>Prerequisite:</b>	No
<b>Conducted by:</b>	Department of Anatomy, Department of Histology
<b>Professor in Charge:</b>	Prof. Angja Strateska-Zafiroska, Ph.D.; Prof. Nevena Kostovska, Ph.D.
<b>Address:</b>	Institute of Anatomy, Faculty of Medicine, No. 6, "50 Divizija" Street, 1000 Skopje tel: + 389 2 3125 304
<b>Key Words:</b>	Studies for logopedists, basic subjects, anatomy, histology
<b>Teaching Goals:</b>	<ul style="list-style-type: none"> <li>• Comprehension of the basic macroscopic structure of the human body</li> <li>• Comprehension of the microscopic structure of the mouth cavity, the upper respiratory paths and the ear, as well as the formation of congenital anomalies of these regions</li> <li>• Use of specialized terminology</li> </ul>
<b>Content Summary:</b>	<p><b>Theoretical lessons:</b></p> <p><b>Anatomy (40 classes)</b></p> <ul style="list-style-type: none"> <li>• Basic terminology in anatomy</li> <li>• Introduction to anatomy, types of anatomy, anatomical nomenclature</li> <li>• Anatomy of the head and neck: <ul style="list-style-type: none"> <li>- osteology, myology, angiology and organs of the head and neck</li> </ul> </li> <li>• Anatomy of organ systems: <ul style="list-style-type: none"> <li>- respiratory system</li> <li>- cardiovascular system</li> <li>- digestive system</li> <li>- urogenital system</li> <li>- endocrine glands</li> <li>- sensory organs</li> <li>- peripheral and central nervous system</li> </ul> </li> </ul> <p><b>Histology (15 classes)</b></p> <ul style="list-style-type: none"> <li>• Structural characteristics of the tissues</li> <li>• Histological structure of the mouth cavity, upper respiratory paths and ear</li> <li>• Embryonic development and the formation of congenital anomalies of the mouth cavity, upper respiratory paths and the ear</li> </ul> <p><b>Practical lessons:</b></p> <p><b>Anatomy (10 classes)</b></p> <ul style="list-style-type: none"> <li>• Observation of bones, joints and muscles, blood vessels and organs of the head and neck</li> <li>• Topographical anatomy of the thorax, stomach and pelvis</li> </ul> <p><b>Histology (5 classes)</b></p> <ul style="list-style-type: none"> <li>• Observation of histological preparations of tissues and organs by using a microscope, microphotographies and slides</li> </ul>
<b>Organization:</b>	<b>Theoretical lessons:</b> 55 classes <b>Practical lessons:</b> 15 classes
<b>Teaching Methods:</b>	Interactive lessons, practice

<p><b>Expected Academic Results:</b></p>	<p><b>Knowledge and understanding:</b> The student will get acquainted with the basic terminology and will acquire the basic knowledge on the position of the organs and their links to other organs. He/she will get acquainted in more details with the micro- and macroscopic structure of the organs and tissues of the head and neck, and their embryonic development so as to understand the formation of congenital anomalies that might become the cause for speech disorder.</p> <p><b>Key skills:</b> The student will be able to apply his knowledge on the subjects anatomy, histology and embryology while studying other medical subjects .</p>																										
<p><b>Specific recommendations on the schooling:</b></p>	<p>The student is required to actively follow all of the planned activities.</p> <p><b>Rating the student's activities:</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Type of activity</th> <th colspan="2">Points</th> </tr> <tr> <th>Anatomy</th> <th>Histology</th> </tr> </thead> <tbody> <tr> <td>Theoretical lessons</td> <td>0.5 - 1</td> <td>0.5 - 1</td> </tr> <tr> <td>Practical lessons</td> <td>2.5 - 4</td> <td>1.5 - 2</td> </tr> <tr> <td>Paper</td> <td>1 - 2</td> <td></td> </tr> <tr> <td>Regular check</td> <td>15 - 25</td> <td>15 - 25</td> </tr> <tr> <td>Final exam</td> <td>24 - 40</td> <td></td> </tr> <tr> <td>Total:</td> <td>43 - 72</td> <td>17 - 28</td> </tr> <tr> <td><b>Total:</b></td> <td colspan="2">60 - 100</td> </tr> </tbody> </table> <p><b>Conditional criteria for assessing the knowledge:</b></p> <ol style="list-style-type: none"> <li>In order to collect the signature, the student should obtain the minimum points in both the theoretical and the practical lessons, and write a paper;</li> <li>In order to take the final exam, the student should obtain the minimum points in the regular check;</li> <li>If the student has not obtained the minimum points in the regular check, he/she takes the comprehensive final exam.*</li> </ol>	Type of activity	Points		Anatomy	Histology	Theoretical lessons	0.5 - 1	0.5 - 1	Practical lessons	2.5 - 4	1.5 - 2	Paper	1 - 2		Regular check	15 - 25	15 - 25	Final exam	24 - 40		Total:	43 - 72	17 - 28	<b>Total:</b>	60 - 100	
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<p><b>Knowledge Assessment:</b></p>	<p><b>Regular check of the knowledge – 1 (written)</b></p> <table border="0"> <tr> <td>1. Anatomy: locomotor, respiratory and cardiovascular system</td> <td style="text-align: right;">15 – 25 points</td> </tr> <tr> <td>1. Histology: histological structure, embryonic development and formation of congenital anomalies of the mouth cavity, the ear and the upper respiratory paths</td> <td style="text-align: right;">15 – 25 points</td> </tr> </table> <p><b>Final exam (written)</b></p> <table border="0"> <tr> <td>1. Anatomy: digestive, urogenital, peripheral, central nervous system, endocrine glands and senses</td> <td style="text-align: right;">24 – 40 points</td> </tr> </table> <p><b>Comprehensive final exam*:</b> it is a combination of the regular check failed and the final exam.</p> <p>* The grade in the comprehensive exam is given according to the grading table, and on the basis of the sum of points obtained in all of the activities, including the regular checks and the points from every part of the final exam or the comprehensive final exam.</p>	1. Anatomy: locomotor, respiratory and cardiovascular system	15 – 25 points	1. Histology: histological structure, embryonic development and formation of congenital anomalies of the mouth cavity, the ear and the upper respiratory paths	15 – 25 points	1. Anatomy: digestive, urogenital, peripheral, central nervous system, endocrine glands and senses	24 – 40 points																				
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<b>Teaching Aids:</b>	<b>Principal:</b> <ul style="list-style-type: none"><li>• Human Anatomy – lecture notes by the Department of Anatomy</li><li>• Atlas of Human Anatomy</li><li>• N. Kostovska and L. Milenkova, “Histological Structure of Tissues”, Skopje, 2003</li><li>• L. Milenkova, N. Kostovska, B. Bajraktarova, “Histological Structure and Embryonic Development of the Mouth Cavity”, Skopje</li></ul>
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