Subject	PHYSIOLOGY		
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Study program	Three years of graduate studies for speech therapist		
Code	SL-116		
Academic year	First (I)		
Semester	First(I)		
Classes, total	55		
Credits	3.5		
Subject type	Obligatory		
Prerequisites	No		
Held by	Institute of physiology and anthropology		
<b>Professor-Lecturer</b>	Prof d-r Vesela Maleska - Ivanovska		
in charge			
	Institute of physiology and anthropology		
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Key words	Professional studies for nurses and technicians, basic subjects, physiology		
Study goals	<ul> <li>Understanding of the normal operation of of the human body.</li> </ul>		
	<ul> <li>Understanding of the functioning of certain systems.</li> </ul>		
	Theoretical classes:		
	■ Functional mechanisms of homeostasis.		
<b>Brief description</b>	■ Cell physiology.		
-	■ Physiology of blood		
	■ Cardiovascular physiology.		
	<ul><li>Physiology of the respiratory system.</li></ul>		
	<ul><li>Physiology of gastrointestinal system.</li></ul>		
	<ul> <li>Physiology of metabolism, physiological functions of the liver and</li> </ul>		
	thermoregulation.		
	<ul><li>Physiology of the urinary system.</li></ul>		
	Physiology of the nervous system.		
	<ul> <li>Physiology of the endocrine system.</li> </ul>		
	Laboratory practice:		
	Blood and blood elements.		
	■ Heart and circulation.		
	■ Respiration.		
	■ Senses.		
Organization			
8	Laboratory practic lectures: 15		
	Seminars: 10		
Learning methods	Interactive lectures, laboratory practice and seminars.		
<u> </u>	Knowledge and understanding: The student will be able to know the		
	functional characteristics and processes of organic systems and will be		
	able to learn about the interrelationships and influences the control and		
<b>Expected results</b>	regulation mechanisms of the human organism.		
	<b>Key skills:</b> The student will be able to indicate the physiological		
	processes and their regulatory mechanisms that take place in organic		
	systems and will highlight their mutual influences.		
	The student is obliged to actively monitor all the activities, including		
	participating in continuous knowledge checks to get a signature.		
	Scoring the student activites:		
	Type of activity Points		
	- Jp		

Specific		Min	Maks
recommendations	Theoretical classes	6	10
	Practical classes	16	20
	Seminar	8	10
	Continuous checks -	15	30
	Final exam	15	30
	Total:	60	100
	Knowledge assessment criteria: 1. A 60% Point Score Minimum (per examination) is needed in order to attend final exam 2. If PSM (Point Score Minimum) not obtained, the student is allowed a complete final exam (the colloquial exam and final exam included).		
	Continuous checks of knowledge - 1	l tests (written)	
Contiuous knowledge	Cell physiology, physiology of respiration, cardiovascular physiology, physiology of gastrointestinal system, physiology of metabolism, physiology of the liver and thermoregulation  15-30 points		
assesment	Final exam: written Physiology of the urinary system, nervous system and endocrine system 15-30 points		
	Complete final exam*: test is a combination of continuous check which has not been passed and final exam.  * Student completed and / or complete the final examination may occur only after receiving credits (passed) on the subject anatomy.  *Assessment of the overall exam is obtained according to the table grades, based on the sum of points from all activities, including continuous checks and points from every part of the final or complete the final exam.		
Recommended literature	<ol> <li>Guyton AC, Hall JE. Textbook of Medical Physiology 12<sup>th</sup> edition. Elsevier, London, 2011</li> <li>Dejanova B, Petrovska S, Todorovska L. Physiology of certain organ systems. Skopje, 2012</li> <li>Selected chapters of physiology (internal script of Institute of physiology), Skopje,2009</li> <li>Efremovska Lj and all. Practicum in Physiology. Skopje 2012</li> <li>Despopoulos A, Silbernagl S. Color atlas of Physiology. New York, 2003</li> <li>Costanzo LS. Physiology Elsevier, London, 2006</li> </ol>		