

Subject	PHYSIOLOGY
Study program	Three years of professional studies for graduate nurses and technicians
Code	SM S/T-115
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
Professor-Lecturer in charge	Prof d-r Vesela Maleska - Ivanovska
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Key words	Professional studies for nurses and technicians, basic subjects, physiology
Study goals	<ul style="list-style-type: none"> ▪ Understanding of the normal operation of of the human body. ▪ Understanding of the functioning of certain systems.
Brief description	<p>Theoretical classes:</p> <ul style="list-style-type: none"> ▪ Functional mechanisms of homeostasis. ▪ Cell physiology. ▪ Physiology of blood ▪ Cardiovascular physiology. ▪ Physiology of the respiratory system. ▪ Physiology of gastrointestinal system. ▪ Physiology of metabolism, physiological functions of the liver and thermoregulation. ▪ Physiology of the urinary system. ▪ Physiology of the nervous system. ▪ Physiology of the endocrine system. <p>Laboratory practice:</p> <ul style="list-style-type: none"> • Blood and blood elements. <ul style="list-style-type: none"> ▪ Heart and circulation. ▪ Respiration. ▪ Senses.
Organization	Theory lectures: 30 Laboratory practic lectures: 15 Seminars: 10
Learning methods	Interactive lectures, laboratory practice and seminars.
Expected results	<p>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 regulation mechanisms of the human organism.</p> <p>Key skills: 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.</p>
	The student is obliged to actively monitor all the activities, including participating in continuous knowledge checks to get a signature.
	Scoring the student activites:

Specific recommendations	Type of activity	Points	
		Min	Maks
	Theoretical classes	6	10
	Practical classes	16	20
	Seminar	8	10
	Continuous checks -	15	30
	Final exam	15	30
	Total:	60	100
	<p>Knowledge assessment criteria:</p> <p>1. A 60% Point Score Minimum (per examination) is needed in order to attend final exam</p> <p>2. If PSM (Point Score Minimum) not obtained, the student is allowed a complete final exam (the colloquial exam and final exam included).</p>		
Contiuous knowledge assesment	<p>Continuous checks of knowledge - 1 tests (written)</p> <p>Cell physiology, physiology of respiration, cardiovascular physiology, physiology of gastrointestinal system, physiology of metabolism, physiology of the liver and thermoregulation 15-30 points</p> <p>Final exam: written Physiology of the urinary system , nervous system and endocrine system 15-30 points</p> <p>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.</p>		
Recommended literature	<ol style="list-style-type: none"> Guyton AC, Hall JE. Textbook of Medical Physiology 12th edition. Elsevier, London, 2011 Dejanova B, Petrovska S, Todorovska L. Physiology of certain organ systems. Skopje, 2012 Selected chapters of physiology (internal script of Institute of physiology), Skopje, 2009 Efremovska Lj and all. Practicum in Physiology. Skopje 2012 Despopoulos A, Silbernagl S. Color atlas of Physiology. New York, 2003 Costanzo LS. Physiology Elsevier, London, 2006 		