

Course Title	Physiology I				
Course Code	BMS123				
Course Type	Compulsory				
Level	Bachelor (1st Cycle)				
Year / Semester	1 st Year / 2 nd Semester				
Teacher's Name	TBA				
ECTS	6	Lectures / week	2 Hours	Laboratories / week	1 Hour
Course Purpose and Objectives	<p>The objective of the course is to familiarize students with</p> <ul style="list-style-type: none"> • The principles of Physiology as a basic biological science. • The physiology of the musculoskeletal system • The mechanisms of preservation of the internal environment of the body through homeostasis • The importance of the skin as a functional system 				
Learning Outcomes	<p>Upon successful completion of this course students will be able to:</p> <ul style="list-style-type: none"> • Recall the principles of Physiology as a basic biological science. • Discuss the principal functional characteristics of the musculoskeletal system. • Describe the fundamentals of the physiology of exercise, the physiology of ageing and the physiology of adaptation to extreme and adverse conditions. • Analyze the organization and the composition of the fluid compartments of the body. • Define the principles of homeostasis of the body fluids. • Enumerate and describe the skin properties and functions and its associated organs. 				
Prerequisites	None		Co-requisites	BMS122	
Course Content	<ul style="list-style-type: none"> • Fundamentals of Physiology. • Functional Characteristics of the Musculoskeletal System • Brief description of the neuromuscular system function • Central and peripheral nervous system function • Roads of the senses, pyramidal and extrapyramidal system • Autonomic nervous system • Homeostasis, fluid balance and acid-base balance • The physiology of exercise 				

	<ul style="list-style-type: none"> • The growth and development of the human body and the process of ageing • Adaptation to extreme environmental conditions • Functions of the Skin and Associated Organs, including the physiology of thermal regulation. <p>Laboratory exercises: Using audiovisual means, students will be trained in physiology and present projects in relation to the content of the course in order to fully comprehend the material taught. Additionally, students will be able to search for relevant information by accessing libraries and the internet.</p>										
Teaching Methodology	Face- to- face										
Bibliography	<p>Principles of Physiology; Berne, R.M.; 3rd; 978-0323008136; Mosby; 2000</p> <p>Guyton and Hall Textbook of Medical Physiology:: John E. Hall; 12th; 978-1416045748; Saunders; 2010</p> <p>Principles of Neural Science; Kandel, E.R./ Schwartz, J/H./ Jessell, T.M.; 4th; 978-0838577011; McGraw-Hill; 2000</p> <p>ADDITIONAL RECOMMENDED TEXTBOOKS:</p> <p>Medical Physiology: A Cellular and Molecular Approach; Boron, F.W. / Boulpaep L.E; 2nd; 978-1416031154; Saunders; 2008</p> <p>Neuroscience; Purves; 5th; 978-0878936465; Sinauer Associates; 2011</p> <p>An Introduction to Brain and Behavior; Kolb, Bryan; 978-1429253741; Worth Publishers; 2010</p> <p>Human Physiology: The Mechanisms of Body Function; Vander, Arthur; 8th; 978-0071183826; McGraw-Hill; 2001</p>										
Assessment	<table border="1"> <tr> <td>Mid – Term Examination</td> <td>30%</td> </tr> <tr> <td>Final Examination</td> <td>40%</td> </tr> <tr> <td>Assignments/Lab</td> <td>20%</td> </tr> <tr> <td>Class Participation</td> <td>10%</td> </tr> <tr> <td></td> <td>100%</td> </tr> </table>	Mid – Term Examination	30%	Final Examination	40%	Assignments/Lab	20%	Class Participation	10%		100%
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Language	English										