Course Title	Microbiology			
Course Code	BMS321			
Course Type	Compulsory			
Level	Bachelor (1st Cycle)			
Year / Semester	3 <sup>rd</sup> Year / 6 <sup>th</sup> Semester			
Teacher's Name	TBA			
ECTS	7 Lectures / week 3 Hours Laboratories / 2 Hours week			
Course Purpose and Objectives	The objective of the course is to familiarize students with			
Learning Outcomes	<ul> <li>Upon successful completion of this course students should be able to:</li> <li>Discuss the fundamentals of microbiology and parasitology.</li> <li>Describe the normal microflora in humans and the characteristics of the host-parasite relationship.</li> <li>Describe the general characteristics of the microorganisms and pathologic parasites in humans.</li> <li>Correlate the most important infectious syndromes with the respective principal pathogens.</li> <li>Demonstrate that they have acquired expertise about the procedures used to obtain and process biological fluids and other samples for microbiological study.</li> <li>Demonstrate that they have acquired the expertise to use the optical microscope for microbiological diagnosis.</li> <li>Demonstrate that they have acquired the expertise regarding the principal techniques of microbiological, parasitological and serological testing and to interpret the respective results.</li> <li>Demonstrate that they have acquired the expertise to apply appropriately the techniques used for disinfection and sterilization.</li> <li>Discuss the foundations for the microbiological basis of the clinical use of antimicrobials, their action mechanisms, resistance mechanisms and tests used to evaluate the sensitivity of antimicrobials and the interpretation of those test results.</li> </ul>			

	<ul> <li>Describe the procedures for the prevention and control of infectious diseases.</li> <li>Demonstrate that they have acquired expertise to carry out simple diagnostic techniques used in microbiology.</li> </ul>		
Prerequisites	BMS111	Co-requisites	None
Course Content	Normal microfl parasite relation     General chara parasites in hu     Culture and nu     Microbial gene     Techniques of serological diagonal diagona	onship. Interistics of microcomans. Intritional needs of netics for microbiological gnosis and interpresent sterilization technology and control of microbiology, nitrocycle, sulphur cycles and control sycle, sulphur cycles wation and staining crobial population so methods Effect of physical particles of the control of the control of the cycle of the control of the cycle of the cy	paracteristics of the host- organisms and pathogen nicroorganisms al, parasitological and etation of results. niques. al use of antimicrobials. infectious diseases. ogen cycle, carbon cycle, , symbiotic relationships septic culture conditions-
Teaching Methodology	Face- to- face		
Bibliography	Medical Microbiology; Murray, P.; 6th; 978-0323054706; Mosby; 2008  Microbiology: An Introduction; Tortora, Gerald; 11th; 978-0321798541; Pearson; 2012  Immunology; Goldsby, R. / Kindt, T. / Osborne, B.; 6th; 978-0716767640; W. H. Freeman; 2006  Basic Immunology Updated Edition: Functions and Disorders of the Immune System; Abul K. Abbas; 3rd; 978-141605569; Saunders; 2010		

	ADDITIONAL RECOMMENDED TEXTBOOKS:		
	Clinical Chemistry: Theory, Analysis, Correlation; Kaplan, A.; 5th; 978-0323036580; Mosby; 2009		
	Medical Microbiology: A Guide to Microbial Infections: Pathogenesis, Immunity, Laboratory Diagnosis and Control; Greenwood, David; 17th; 978-0443102097; Churchill Livingstone; 2007		
Assessment			
	Mid – Term Examination	30%	
	Final Examination	40%	
	Assignments/Lab	20%	
	Class Participation	10%	
		100%	
Language	English		