

CSI161: FUNDAMENTALS OF MICROBIOLOGY

Course Name (English)	FUNDAMENTALS OF MICROBIOLOGY APPROVED		
Course Code	CSI161		
MQF Credit	3		
Course Description	This introductory course provides a detailed study of Clinical Microbiology theory, laboratory methodology and techniques. Emphasis is on the properties and characteristics of organisms, the effects of antimicrobial agents and the concepts of infectious disease in humans.		
Transferable Skills Cognitive and Psychomotor			
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Demonstrations, Practical Classes, Web Based Learning, Problem Based Learning (PBL), Presentation		
CLO	 CLO1 Describe the safety procedures in accordance with standard precaution. CLO2 Discuss the host-parasite interaction, bacterial cell structure, physiology, metabolism, genetics and principles associated with antimicrobial susceptibility testing. CLO3 Perform the basic skill of microbiological techniques, microscopic methods of examination, Kirby-Bauer susceptibility testing, to prepare growth media, and maintaining stock bacterial and fungal cultures. 		
Pre-Requisite Courses	No course recommendations		
Reading List	Recommended Text Vandepitte J.,World Health Organization 2003, Basic Laboratory Procedures in Clinical Bacteriology, World Health Organization [ISBN: 9241545453] Saroj K. Mishra,Dipti Agrawal 2012, A Concise Manual of Pathogenic Microbiology, John Wiley & Sons [ISBN: 978111830] Kenneth Ryan,C. George Ray,Nafees Ahmad,W. Lawrence Drew,James Plorde 2014, Sherris Medical Microbiology, Sixth Edition, McGraw Hill Professional [ISBN: 9780071818261] Michael J. Leboffe,Burton E. Pierce, Brief Microbiology Laboratory & Application, MORTON PUBLISHING [ISBN: 9780895829474] Karin C. VanMeter,Robert J. Hubert 2015, Microbiology for the Healthcare Professional, Elsevier Health Sciences [ISBN: 9780323320924] John Lammert 2007, Techniques in Microbiology, Prentice Hall [ISBN: 9780132240116] Sankar Apurba Sastry,Sandhya Bhat 2015, Essentials of Medical Microbiology, Jaypee Brothers,Medical Publishers Pvt. Limited [ISBN: 9789351529873] John Harley 2016, Laboratory Exercises in Microbiology, McGraw-Hill Education [ISBN: 9781259657573] Gerard J. Tortora,Berdell R. Funke,Christine L. Case 2001, Microbiology, Benjamin-Cummings Publishing Company [ISBN: 9780805375435]		

	Reference Book Resources	Maria Dannessa Delost 2014, <i>Introduction to Diagnostic</i> <i>Microbiology for the Laboratory Sciences</i> , Jones & Bartlett Publishers [ISBN: 9781284032314]	
		Connie R. Mahon,Donald C. Lehman,George Manuselis 2011, <i>Textbook of Diagnostic Microbiology</i> , Saunders [ISBN: 9781416061656]	
		Patricia M. Tille 2016, <i>Bailey & Scott's Diagnostic Microbiology</i> , Mosby [ISBN: 9780323354820]	
		Lisa Anne Shimeld,Anne T. Rodgers 1999, <i>Essentials of Diagnostic Microbiology</i> , Taylor & Francis US [ISBN: 9780827373884]	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		