



UNIVERSITI TEKNOLOGI MARA

CSI261: CLINICAL MICROBIOLOGY II

Course Name (English)	CLINICAL MICROBIOLOGY II APPROVED		
Course Code	CSI261		
MQF Credit	3		
Course Description	This course is a continuation of Clinical Microbiology I and will provide a detail understanding of the nature of medically important of bacteriology, mycology and virology and their relationships with the human hosts. Laboratory sessions are used to review techniques for pathogen isolation and identification. Emphasis will be placed on the proper procedures for analyzing and reporting patient results in order to prepare the student for their clinical training.		
Transferable Skills	teamwork		
Teaching Methodologies	Lectures, Blended Learning, Case Study, Practical Classes, Presentation		
CLO	<p>CLO1 Identify the virus taxonomy, classification, types of viruses and requirement of virology laboratory.</p> <p>CLO2 Perform specific laboratory protocols to isolate and identify the pathogenic gram-negative bacteria and fungi through macro & microscopic observation and biochemical laboratory tests.</p> <p>CLO3 Analyse the reporting results of pathogenic gram-negative bacteria, fungi test and the selection of reliable drugs to treat the infection.</p> <p>CLO4 Explain the latest QA & QC, SOP, and automation instruments that can be used to diagnose microbes and viruses pathogens in the clinical microbiology laboratory.</p>		
Pre-Requisite Courses	No course recommendations		
Reading List	<table><tr><td>Recommended Text</td><td><ul style="list-style-type: none">• Karen Kiser, William Payne, Theresa Taff 2011, <i>Clinical Laboratory Microbiology: A Practical Approach</i>, 1st edition, 1 Ed., Pearson United states [ISBN: 139780130921]• Connie R. Mahon, Donald C. Lehman, George Manuselis 2014, <i>Textbook of Diagnostic Microbiology</i>, Saunders [ISBN: 0323089895]• Gary W. Procop, Elmer W. Koneman 2016, <i>Koneman's Color Atlas and Textbook of Diagnostic Microbiology</i>, LWW [ISBN: 1451116594]</td></tr></table>	Recommended Text	<ul style="list-style-type: none">• Karen Kiser, William Payne, Theresa Taff 2011, <i>Clinical Laboratory Microbiology: A Practical Approach</i>, 1st edition, 1 Ed., Pearson United states [ISBN: 139780130921]• Connie R. Mahon, Donald C. Lehman, George Manuselis 2014, <i>Textbook of Diagnostic Microbiology</i>, Saunders [ISBN: 0323089895]• Gary W. Procop, Elmer W. Koneman 2016, <i>Koneman's Color Atlas and Textbook of Diagnostic Microbiology</i>, LWW [ISBN: 1451116594]
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Article/Paper List	<table><tr><td>Recommended Article/Paper Resources</td><td><ul style="list-style-type: none">• Paul P. Bourbeau, Nathan A. Ledeboer Automation in Clinical Microbiology, <i>Journal of Clinical Microbiology</i>, 2013 [ISSN: 10.1128/J] https://jcm.asm.org/content/51/6/1658• 2020 Prioritizing Prevention to Combat Multidrug Resistance in Nursing Homes: A Call to Action, Volume 21, 3 https://www.jamda.com/article/S1525-8610(19)30833-3/pdf</td></tr></table>	Recommended Article/Paper Resources	<ul style="list-style-type: none">• Paul P. Bourbeau, Nathan A. Ledeboer Automation in Clinical Microbiology, <i>Journal of Clinical Microbiology</i>, 2013 [ISSN: 10.1128/J] https://jcm.asm.org/content/51/6/1658• 2020 Prioritizing Prevention to Combat Multidrug Resistance in Nursing Homes: A Call to Action, Volume 21, 3 https://www.jamda.com/article/S1525-8610(19)30833-3/pdf
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Other References	<ul style="list-style-type: none">• Website 2018 <i>Culture Media</i> https://microbeonline.com/• Website Derek Moore 2019, <i>Antibiotic Classification & Mechanism</i> https://www.orthobullets.com/basic-science/9059/antibiotic-classification-and-mechanism• Website John A. Washington 1996, <i>Principles of Diagnosis</i>		

	<p>https://www.ncbi.nlm.nih.gov/books/NBK8014/</p> <ul style="list-style-type: none"> • Website Michael R. McGinnis and Stephen K. Tying. <i>Introduction to Mycology</i> https://www.ncbi.nlm.nih.gov/books/NBK8125/ • Website KKM <i>GUIDELINES FOR PATHOLOGY LABORATORIES IN MANAGEMENT OF PUI FOR EVD</i> , Malaysia http://www.moh.gov.my/index.php/file_manager/dl_item
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