



UNIVERSITI TEKNOLOGI MARA

CSI251: CLINICAL MICROBIOLOGY III

Course Name (English)	CLINICAL MICROBIOLOGY III APPROVED				
Course Code	CSI251				
MQF Credit	3				
Course Description	This course is a continuation of Clinical Microbiology II and will provide a detail understanding of the nature of medically important microorganisms and their relationships with the human hosts. Laboratory techniques in medical mycology will be introduced. Laboratory sessions are used to review techniques for pathogen isolation and identification. Emphasis will be placed on the proper procedures for reporting patient results in order to prepare the student for their clinical training.				
Transferable Skills	Students are able to diagnose disease by using knowledge and lab skill given.				
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Case Study, Practical Classes, Problem Based Learning (PBL), Small Group Sessions				
CLO	<p>CLO1 Identify the virus taxonomy, classification, types of viruses, and requirement of the 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 Analyze 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">Forbes B.A., Sahm D.F., and Weissfeld A.S. 2007, <i>Bailey & Scott's Diagnostic Microbiology</i>, 11 Ed.Mahon C., Manuselis G., and Lehman D. 2010, <i>Textbook of Diagnostic Microbiology</i>, Elsevier USAKaren M. Kiser, William C. Payne and Teresa A.Taff 2011, <i>Clinical Laboratory Microbiology. A practice Approach</i>Kayser F.H, Bienz K.A, Eckert J., and Zinkern 2005, <i>Medical Microbiology</i>, Ed., , New York. [ISBN:]Margaret A. Bartelt 2000, <i>Diagnostic Bacteriology; A Study Guide</i>, Ed., , F.A. Davis Publishing [ISBN:]Monica Cheesebrough 2000, <i>District Laboratory Manual for Tropical Count</i>, Ed., , [ISBN:]</td></tr><tr><td>Reference Book Resources</td><td><ul style="list-style-type: none">David H, Persing, Fred C. Tenover, Yi-Wei Tang, Frederick S.Notle, Randall T. Hayden, and Alex V.Belkum 2011, <i>Molecular Microbiology; Diagnostic Principles and Practice</i>Paul G.Engelkirk and Jannet Duben-Engelkirk 2011, <i>Burton's Microbiology for the Health Sciences</i></td></tr></table>	Recommended Text	<ul style="list-style-type: none">Forbes B.A., Sahm D.F., and Weissfeld A.S. 2007, <i>Bailey & Scott's Diagnostic Microbiology</i>, 11 Ed.Mahon C., Manuselis G., and Lehman D. 2010, <i>Textbook of Diagnostic Microbiology</i>, Elsevier USAKaren M. Kiser, William C. Payne and Teresa A.Taff 2011, <i>Clinical Laboratory Microbiology. A practice Approach</i>Kayser F.H, Bienz K.A, Eckert J., and Zinkern 2005, <i>Medical Microbiology</i>, Ed., , New York. [ISBN:]Margaret A. Bartelt 2000, <i>Diagnostic Bacteriology; A Study Guide</i>, Ed., , F.A. Davis Publishing [ISBN:]Monica Cheesebrough 2000, <i>District Laboratory Manual for Tropical Count</i>, Ed., , [ISBN:]	Reference Book Resources	<ul style="list-style-type: none">David H, Persing, Fred C. Tenover, Yi-Wei Tang, Frederick S.Notle, Randall T. Hayden, and Alex V.Belkum 2011, <i>Molecular Microbiology; Diagnostic Principles and Practice</i>Paul G.Engelkirk and Jannet Duben-Engelkirk 2011, <i>Burton's Microbiology for the Health Sciences</i>
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