UNIVERSITI TEKNOLOGI MARA

CSI211: CLINICAL MICROBIOLOGY I

Course Name (English)	CLINICAL MICROBIOLOGY I APPROVED
Course Code	CSI211
MQF Credit	3
Course Description	This course builds on the concepts learned previously by examining the specific bacterial origins of infections that influence human health and disease. Emphasis is on laboratory isolation, identification and reporting procedures. Students continue developing skills in practical laboratory sessions, and are provided with an opportunity to perform and interpret tests to diagnose infectious disease.
Transferable Skills	knowledge Practical skill Critical Thinking and scientific skill communication skill
Teaching Methodologies	Lectures, Blended Learning, Demonstrations, Case Study, Practical Classes, Problem Based Learning (PBL), Discussion
CLO	CLO1 Discuss the general characteristics, clinically significant and laboratory diagnosis of the major bacterial pathogens as listed below: a. Staphylococci b. Streptococcus and Enterococcus spp. c. Bordetella spp. d. Corynebacterium spp. e. Gardnerella vaginalis f. Bacillus g. Mycobacterium spp. h. Neisseria spp. i. Haemophilus spp. j. Legionella spp. CLO2 Perform specific laboratory procedures to isolate the pathogenic gram-positive bacteria, Neisseria spp. and Haemophilus spp. through macro & microscopic observation and biochemical laboratory tests. CLO3 Analyse the reporting results of pathogenic gram-positive bacteria, Neisseria spp. and Haemophilus spp and the selection of reliable drugs to treat the infection. CLO4 Present the proper of specimen collection, transportation and processing in diagnostic microbiology.
Pre-Requisite Courses	No course recommendations
Reading List	**Recommended Text** • **Connie R. Mahon,Donald C. Lehman,George Manuselis 2011, *Textbook of Diagnostic Microbiology*, Saunders [ISBN: 9781416061656]** • **Betty A. Forbes,Daniel F. Sahm,Alice S. Weissfeld 2016, *Study Guide for Bailey and Scott's Diagnostic Microbiology*, Elsevier Health Sciences [ISBN: 9780323263474]** • **Ranjan Kumar De, *Diagnostic Microbiology: For DMLT Students*** • **Lisa Anne Shimeld 1999, *Essentials of Diagnostic Microbiology*, Cengage Learning [ISBN: 9780827373884]** • **1994, *Introduction to Diagnostic Microbiology*, Lippincott Williams & Wilkins [ISBN: 9780397512157]** • **Maria Dannessa Delost,Professor and Director of Clinical Laboratory Programs Youngstown State University Youngstown Ohio Maria E Delost 2014, *Introduction to Diagnostic Microbiology for the Laboratory Sciences*, Jones & Bartlett Publishers [ISBN: 9781284032321]** • **Gwendolyn R. Wilson Burton,Paul G. Engelkirk, *Microbiology for the Health Sciences* [ISBN: 9780781718448]**

	• **Frank E. Berkowitz,Robert C. Jerris 2015, *Practical Medical Microbiology for Clinicians*, John Wiley & Sons [ISBN: 9781119066712]** • **Karin C. VanMeter,Robert J. Hubert 2015, *Microbiology for the Healthcare Professional*, Elsevier Health Sciences [ISBN: 9780323320924]** • **Elmer W. Koneman 2006, *Koneman's Color Atlas and Textbook of Diagnostic Microbiology*, Lippincott Williams & Wilkins [ISBN: 9780781730143]**
Article/Paper List	This Course does not have any article/paper resources
Other References	This Course does not have any other resources