



## UNIVERSITI TEKNOLOGI MARA

### CSI151: CLINICAL MICROBIOLOGY I

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| <b>Course Name (English)</b>  | CLINICAL MICROBIOLOGY I <b>APPROVED</b>   |                         |  |
| <b>Course Code</b>            | CSI151  |                         |  |
| <b>MQF Credit</b>             | 3   |                         |  |
| <b>Course Description</b>     | 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.  |                         |  |
| <b>Transferable Skills</b>    | C1-C2<br>P1-P4  |                         |  |
| <b>Teaching Methodologies</b> | Lectures, Blended Learning, Lab Work, Demonstrations, Practical Classes, Web Based Learning, Problem Based Learning (PBL), Presentation, Small Group Sessions   |                         |  |
| <b>CLO</b>                    | <p>CLO1 Describe the safety procedures in accordance with standard precaution.</p> <p>CLO2 Discuss the host-parasite interaction, bacterial cell structure, physiology, metabolism, genetics and principles associated with antimicrobial susceptibility testing.</p> <p>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.</p>  |                         |  |
| <b>Pre-Requisite Courses</b>  | No course recommendations   |                         |  |
| <b>Reading List</b>           | <table><tr><td><b>Recommended Text</b></td><td><ul style="list-style-type: none"><li>• Kathleen Park Talaro and Barry Chess 2011, <i>Talaro/Chess: Foundations in Microbiology</i>, 8 Ed.</li><li>• Gerard J. Tortora, Berdell R. Funke and Christine L. Case 2012, <i>Microbiology: An Introduction</i>, 11 Ed.</li><li>• Mahon C., Manuselis G., and Lehman D. 2006, <i>Textbook of Diagnostic Microbiology</i>, Elsevier USA</li><li>• Monica Cheesebrough 2007, <i>District Laboratory Manual for Tropical Countries, Part 2</i></li><li>• Margaret A. Bartelt, F.A. Davis Publishing 2000, <i>Diagnostic Bacteriology; A Study Guide</i></li><li>• Kayser F.H, Bienz K.A, Eckert J., and Zinkernagel 2005, <i>Medical Microbiology</i>, New York</li></ul></td></tr></table> | <b>Recommended Text</b> | <ul style="list-style-type: none"><li>• Kathleen Park Talaro and Barry Chess 2011, <i>Talaro/Chess: Foundations in Microbiology</i>, 8 Ed.</li><li>• Gerard J. Tortora, Berdell R. Funke and Christine L. Case 2012, <i>Microbiology: An Introduction</i>, 11 Ed.</li><li>• Mahon C., Manuselis G., and Lehman D. 2006, <i>Textbook of Diagnostic Microbiology</i>, Elsevier USA</li><li>• Monica Cheesebrough 2007, <i>District Laboratory Manual for Tropical Countries, Part 2</i></li><li>• Margaret A. Bartelt, F.A. Davis Publishing 2000, <i>Diagnostic Bacteriology; A Study Guide</i></li><li>• Kayser F.H, Bienz K.A, Eckert J., and Zinkernagel 2005, <i>Medical Microbiology</i>, New York</li></ul> |
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| <b>Article/Paper List</b>     | This Course does not have any article/paper resources   |                         |  |
| <b>Other References</b>       | <ul style="list-style-type: none"><li>• Book Cappuccino, J., &amp; Sherman, N. 2013, <i>Microbiology: A Laboratory Manual</i>, Benjamin Cummings</li><li>• Book Willey, J., &amp; Sherwood, L. <i>Prescott's microbiology</i>, McGraw-Hill, New York</li></ul>  |                         |  |

