



UNIVERSITI TEKNOLOGI MARA

CSI101: MEDICAL LABORATORY TECHNOLOGY PRINCIPLES AND PRACTICES I

Course Name (English)	MEDICAL LABORATORY TECHNOLOGY PRINCIPLES AND PRACTICES I APPROVED		
Course Code	CSI101		
MQF Credit	4		
Course Description	This course covers subject areas common to all specialized subjects within Medical Laboratory Technology. An introduction to laboratory techniques and equipment in Clinical Microbiology, Chemical Pathology, Histotechnology, Parasitology, Cytology, Immunology, Transfusion Medicine, and Haematology. Emphasis is on laboratory safety, medical terminology, ethics, professionalism, interpersonal skills, accessioning, confidentiality, and transport of dangerous goods, sterilization, disinfections, basic equipment and reagents. It is also used to demonstrate techniques and procedures not yet studied by the students. Undergo these course will make teaching the concepts easier for the following semesters.		
Transferable Skills	Teamwork Leadership Communication skill Psychomotor skill		
Teaching Methodologies	Lectures, Blended Learning, Lab Work, Demonstrations, Problem Based Learning (PBL), Discussion		
CLO	CLO1 Define and practice universal precautions when handling laboratory equipment and biological specimens. CLO2 2. Perform laboratory procedures in a manner, which is consistent with regulations, and contributes to a safe working environment. CLO3 Describe the: - fundamental principles of light and optical systems of microscope and its application in Medical Laboratory Technology. - quality assurance system such as preanalytical, analytical and post analytical factors. - professionalism and ethics		
Pre-Requisite Courses	No course recommendations		
Reading List	<table><tr><td>Recommended Text</td><td> • Frances Fischbach 2000, <i>A manual of Laboratory and Diagnostic Tests</i>, Lippincott • Estridge, Reynolds, Walters 2008, <i>Basic Medical Laboratory Technology</i>, 5 Ed., Delmar Thompson Learning • Turgeon M.L. 2007, <i>LinnÃ© & Ringsrud's Clinical Laboratory Science</i>, 5 Ed., Mosby • Robert R Harr, 2006, <i>Clinical Laboratory Science review</i>, 3 Ed. • Frances Fischbach and Marshall B. Dunning 2008, <i>A Manual of Laboratory and Diagnostic Tests</i>, 8 Ed., Lippincott </td></tr></table>	Recommended Text	• Frances Fischbach 2000, <i>A manual of Laboratory and Diagnostic Tests</i>, Lippincott • Estridge, Reynolds, Walters 2008, <i>Basic Medical Laboratory Technology</i>, 5 Ed., Delmar Thompson Learning • Turgeon M.L. 2007, <i>LinnÃ© & Ringsrud's Clinical Laboratory Science</i>, 5 Ed., Mosby • Robert R Harr, 2006, <i>Clinical Laboratory Science review</i>, 3 Ed. • Frances Fischbach and Marshall B. Dunning 2008, <i>A Manual of Laboratory and Diagnostic Tests</i>, 8 Ed., Lippincott
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Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

