Semester	6		
Course Code:	MIBI 33541		
Course Name:	Laboratory aspects of Medical and Veterinary Microbiology[1]		
Credit Value:	1		
Core/Optional	Optional/ Core[1]		
Hourly Breakdown	Theory	Practical	Independent Learning
	-	30 hrs	15 hrs

Course Aim/Intended Learning Outcomes:

Upon successful completion of this course student will be able to;

- Understand the importance of appropriate safety standards in medical laboratory procedures,
- Understand the principles of appropriate laboratory techniques used for the identification of clinically significant organisms,
- Analyze relevant specimens of common microorganisms using different techniques and interpret results,
- Describe the mechanisms of action of commonly used antimicrobials and apply standard performance principles to antimicrobial susceptibility tests.

Course Content:

Laboratory exercises to illustrate the contents and special features emphasized in lecture course in Medical & Veterinary microbiology**.** Bacteria of the skin, Bacteria of the mouth, Bacteria of the respiratory tract, Chemical methods of control: Disinfectants and Antiseptics, Action of antibiotics and dyes. Immunological techniques used in disease diagnosis: Blood Test, Agglutination Reaction, Tube Agglutination, Complement fixation.

Teaching /Learning Methods:

A combination of laboratory exercises, small group discussions/ presentations and demonstration classes.

Assessment Strategy: Continuous assessment and end of the course unit examination.

Continuous Assessment	**Final Assessment**		
10%	90%		
Details:	Theory (%)	Practical (%)	Other (%)
Laboratory Reports: 10%	-	90	-

Recommended Reading:

- Greenwood, D. Slack, R. Barer, M. and Irving, W. (2012) *Medical Microbiology*. 18th Ed. Churchill Livingstone.
- Barrow, G.I. and Feltham, R.K.A. (1993) *Cowan and Steel's Manual for the Identification of Medical Bacteria*. 3rd Ed. Cambridge University Press.
- Turgeon, M.L. (2013) *Immunology and Serology in Laboratory Medicine***.** 5th Ed. Elsevier Mosby.

[1] Compulsory only for the students who follow B. Sc. (Honours) Degree in Microbiology