Course Specifications

General Information

Course name	Practical Medical Bacteriology
Course number	BIOL2157
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	0
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - Safety in lab
2 - Enabling students to prepare media for growth pathogenic bacteria
3 - Capacity building of students to prepare experiments with aseptic technique
4 - Diagnosis different types of bacteria which causing disease to human
5 - Ability for reading and analysis results

Intended Learning Outcomes

Knowledge and Understanding	* How students avoid risks and disease due to aseptic technique
	* Requires skills for using tools and equipment
	* Proper using of devices
	* Diagnosis different types of bacteria which causing disease to human
	* Ability to examine all experiment with regard to related samples
	* Report writing and results analysis
	* Ability to read and analyze results
Intellectual Skills	* Selection proper tests for each sample
	* Requires tools and equipment according to experiment
	* Estimating risks for experiment
Professional Skills	* Proper using of the devices
	* Avoiding risks of experiments in order to use aseptic techniqe
	* Diagnoses microbes about genus and speeches
General Skill	* Comparison between different results of samples
	* Creative thinking of presenting and explanation the results

Course Contents

1 - Safety in laboratory
2 - Method of identification bacteria by microscoping examination and biochemical reactions
3 - Staining of bacteria (Gram - stain)
4 - Biochemical reaction tests about interic bacteria
5 - Biochemical reaction tests about urinary tract infection
6 - Biochemical reaction tests about respiratory tract infection
7 - Commercial kit systems (API) systems tests
8 - Microbial population count of bacteria

Teaching and Learning Methods

1 - Theoretical explanation for experiments
2 - Conducting experiments practically
3 - Reading and analysis of results
4 - Report writing for experiments
5 - Discussion of results

Teaching and Learning Methods for the Disabled Students

1 - Preparing the lab with required equipment, tools and techniques proper to disabled students

Students Assessment

Assessment Method	TIME	MARKS
Mid term exam	1 hour	30
Attendance and reports	-	20
Final exam	1 hour	50

Books and References

Course note	Medicad Diagnostic micobiology note
Other References (Periodical, web sites, ... etc.)	Webs related to Medicad Diagnostic microbiology tests