



Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name
Practical Medical Bacteriology

BIOL2157

Faculty

Department

Course type
Major Needs

Course level
2

Credit hours (theoretical)

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	<u>TIME</u>	<u>MARKS</u>
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,	Webs related to Medicad Diagnostic microbiology tests
etc.)	