

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

<b>Course name</b>	Practical Medical Microbiology
<b>Course number</b>	AMSL3115
<b>Faculty</b>	
<b>Department</b>	
<b>Course type</b>	Major Needs
<b>Course level</b>	3
<b>Credit hours (theoretical)</b>	0
<b>Credit hours (practical)</b>	1
<b>Course Prerequisites</b>	

#### Course Objectives

1 - General Microbiology - Practical - AMSL 2312

#### Intended Learning Outcomes

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|------------------------------------|--|
| <b>Knowledge and Understanding</b> | <ul style="list-style-type: none"> <li>* The aim of this course is to teach the student the morphology , isolation and identification of microorganisms pathogenic to man</li> <li>* Specimen collection and handing, antimicrobial susceptibility testing and biochemical testing are included</li> </ul> |
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#### Course Contents

- 1 - Week No 1 : Introduction and safety rules
- 2 - Week No 2 : Preparation of smears and staining
- 3 - Week No 3 : Differential staining procedures
- 4 - Week No 4 : Isolation Techniques
- 5 - Week No 5 : Selective and differential media
- 6 - Week No 6 : Environmental microbiology
- 7 - Week No 7 : Microbial population count (microscopic)
- 8 - Week No 8 : Microbial population count ( spectrophotometric)
- 9 - Week No 9 : Effect of physical and chemical agents on microorganisms
- 10 - Week No 10 : Antibiotic susceptibility testing
- 11 - Week No 11 : Biochemical testing of microorganisms

#### Teaching and Learning Methods

1 - Using LCD Method showing the pictures and tables

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Lectures attendance		10%
Quiz		10%
Reports		10%
Final Exam		70%

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**Books and References**

Recommended books	Microbiology Laboratory Manual , Principles and Applications , Stephen A. Norrell , Karen E. Messley Medical Laboratory Manual for Tropical Countries. Monica Cheesbrough
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