

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Practical Immunology & Serology
Course number	AMSL3114
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	1
Credit hours (practical)	1
Course Prerequisites	

#### Course Objectives

1 - The purpose of this course is to develop a working knowledge of the principles and procedures of immunology and serology
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#### Intended Learning Outcomes

General Skill	<ul style="list-style-type: none"> <li>* Apply principles of safety, quality assurance and quality control in Immunology/Serology laboratory.</li> <li>* Evaluate specimen acceptability.</li> <li>* Identify the structure, function, and characteristics of immunoglobulins.</li> <li>* Explain the principles of and perform serological tests.</li> <li>* Evaluate and correlate test results with associated diseases or conditions.</li> </ul>
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#### Course Contents

1 - Week No1: Introduction and safety rules
2 - Week No 2: C- reactive protein
3 - Week No 3: Rheumatoid factor
4 - Week No 4: Anti- streptolysin O Titer
5 - Week No 5: Febrile Agglutinin Testing
6 - Week No 6: Precipitation Tests
7 - Week No 7: Enzyme –Linked Immunosorbent Assay
8 - Week No 8: Radioimmunoassay
9 - Week No 9: Fluorescent immunoassay
10 - Week No 10: Autoimmune Diseases
11 - Week No 11: Complement Fixation

#### Teaching and Learning Methods

1 - Practical sessions
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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Lectures attendance		10%
Quiz		10%
Reports		10%
Midterm Exam		20%
Final Exam		50%

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**Books and References**

Essential books	Clinical immunology and serology, F. A. Davis company philadelphia, clinical laboratory science programs, western carolina university
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