

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Practical Clinical Chemistry (1)
Course number	AMSL3120
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	1
Credit hours (practical)	1
Course Prerequisites	

#### Course Objectives

- 1 - The student should train how to apply safety rules and handling hazar materials in medical lab. also the must fameiarize the basic techniques of mesusing pateint samples. and how to use lab. facilities and instruments , and finally how to write medical reports.

#### Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> <li>* Knowing safety rules and other lab tools</li> <li>* Identify hazardous samples</li> <li>* Use lab. facilities and other tools.</li> <li>* Knowing quality control inside the lab.</li> <li>* Write medical reports.</li> <li>* Decide suitable samples for true analysis</li> <li>* Gain knoledge about different methods of mesuring blodd and other body fluids samples</li> <li>* Communicate with other medical staff regarding the obtained results</li> </ul>
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#### Course Contents

- 1 - Mesuring protein and albumin in blood.
- 2 - assessing some amioacidpathies
- 3 - Mesuring blood enzymes such as LDH, CPK, AST, ALT, AND cholinesterase.
- 4 - Assessing liver function bymesuring direct and indirect bilirubin.
- 5 - Evaluation of kidney function by mesuring blood urea, creatinine, uric acid, and electrolytes
- 6 - explaining the priciples of evaluation blood gases and acid base balance.

#### Teaching and Learning Methods

- 1 - Experiments will be done in groups for known values and comparing stuedents results with true values

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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Quizes and reports		30%
Final Exam	End of term	70%

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**Books and References**

Course note	Wendy Arneson and Jean Brickell . (2007) Clinical Chemistry A Laboratory Perspective. ISBN 10: 0 8036 1498 5
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