

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

<b>Course name</b>	Practical Biochemistry
<b>Course number</b>	BIOL2110
<b>Faculty</b>	
<b>Department</b>	
<b>Course type</b>	Major Needs
<b>Course level</b>	2
<b>Credit hours (theoretical)</b>	0
<b>Credit hours (practical)</b>	1
<b>Course Prerequisites</b>	

#### Course Objectives

1	- To qualitatively determination of carbohydrates; Molishs, Anthrone, Fehling, Benedicts, Barfoeds Tests. Osazones, Seliwanoffs, Ketonic, Sucrose, Iodine, Muccic Tests.
2	- To Qualitative determination of protein; Combustion Of Protein, Biuret, Denaturation By Heat And Extreme pH, Precipitation By Heavy Metals, Precipitation By Acidic Reagents.
3	- To qualitatively determination of amino acids; Solubility Of Amino Acids And Proteins, Ninhydrine, Xanthoprotic, Millons, Glycoxylic, Paulys, Ehrlishs Tests
4	- Qualitative determination of lipids; Solubility Of Fatty Acids, Oils And Fat, Sudan Black, Acrolein, Dustan, Test For Unsaturation, Libreman, Salkowski, Copper Acetate Tests.
5	- Spectrophotometric method of analysis and beer's law, Determination of unknown con. Of KMno4 solution using standard curve method
6	- Quantitative determination of blood glucose, Triglycerides, Cholesterol and HDL-Cholesterol in human serum by enzymatic method

#### Course Contents

1	- To qualitatively determination of carbohydrates; Molishs, Anthrone, Fehling, Benedicts, Barfoeds Tests. Osazones, Seliwanoffs, Ketonic, Sucrose, Iodine, Muccic Tests.
2	- To qualitatively determination of amino acids; Solubility Of Amino Acids And Proteins, Ninhydrine, Xanthoprotic, Millons, Glycoxylic, Paulys, Ehrlishs Tests
3	- To Qualitative determination of protein; Combustion Of Protein, Biuret, Denaturation By Heat And Extreme pH, Precipitation By Heavy Metals, Precipitation By Acidic Reagents
4	- Qualitative determination of lipids; Solubility Of Fatty Acids, Oils And Fat, Sudan Black, Acrolein, Dustan, Test For Unsaturation, Libreman, Salkowski, Copper Acetate Tests
5	- Spectrophotometric method of analysis and beer's law, and determine the unknown con. of KMno4 solution using standard curve method
6	- Determination of blood glucose, Triglycerides, Cholesterol and HDL-Cholesterol in human serum by enzymatic method

#### Teaching and Learning Methods

1	- weakly practical training
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**Students Assessment**

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm exam	60minutes	20
Practical part	30minute	30
Final exam	60minutes	50

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**Books and References**

Recommended books	Plummer, D, (1995), An introduction to practical biochemistry, third edition, McGraw-HILL book company maidenhead Berkshire: England
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