## Planning and Quality Assurance Affairs

## Course Specifications

## General Information

| Course name | Introduction to Biochemistry Practical |
| :--- | :--- |
| Course number | BIOL2160 |
| Faculty |  |
| Department |  |
| Course type | Major Needs |
| Course level | 2 |
| Credit hours (theoretical) | 0 |
| Credit hours (practical) | 1 |
| Course Prerequisites |  |

## Course Objectives

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.

## Course Contents

1 - To qualitatively determination of carbohydrates; Molishs, Anthrone, Fehling, Benedicts, Barfoeds Tests. Osazones, Seliwanoffs, Ketonic, Sucrose, lodine, 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

## Teaching and Learning Methods

1- weakly practical training

## Students Assessment

| Assessment Method | TIME | MARKS |
| :--- | :---: | :---: |
| Midterm exam | 60 | 30 |
| Practical part | 30 | 20 |
| final exam | 60 | 50 |

## Books and References

