**Department : Clinical Laboratory Sciences**

**Course Number : CLS 232**

**Course Title : Clinical Biochemistry ( I )**

**Credit Hours : 3 + 1 = 4**

**Course Description:**

This course illustrates structures and functions of bimolecules which includes

carbohydrates, proteins, lipids, nucleic acids, enzymes and hormones.

In the practical part of this course, students study the detection and

quantitative determination of some of these biomolecules.

**CLS 232: Laboratory Schedule**

**Weeks Subjects**

1. Laboratory Safety

2. pH meter + colour tests of protein

3. Colour tests of amino acids

4. Estimation of protein:

Precipitation of proteins, plasma, serum and urine

6. General colour tests of carbohydrates

7. Colour tests of pentoses, hexoses

8. General carbohydrate unknown, identification of

urinary sugars, paper chromatography

9. Determination of Glucose in blood plasma

10. Determination of acid value and iodine number of a fat

11. Determination of saponification value of fat

12. **Revision**

13. **FINAL LABORATORY EXAMINA**