**Department : Clinical Laboratory Sciences**

**Course number : CLS 331**

**Course title : Clinical Biochemistry II**

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

**Course description :**

Course work involves a study of the metabolic activity of animal tissue and its regulation. Major catabolic pathways related to carbohydrate, amino acid, and fatty acids are discussed in detail. The study includes a look at the bioenergetics of cells as well as the digestion and absorption of food material.

**CLS 331 Laboratory Schedule**

**Week subject**

1 . The hydrolytic activity of salivary amylases on starch .

2 . Quantitative determination of amylases activity .

3 . The production of pyruvate and acetaldehyde during the fermentation

of glucose by yeast .

4 . Identification of free amino acids by TLC using silica gel plates.

Quiz

5 . Quantitative determination of protein by the biuret and Lowry Reactions.

6 . Enzymatic Digesiton of fat by pancreatic lipase .

7 . Effect of Bile salts on pancreatic lipase activity .

8. Determination of serum urea by the berthelot reaction .

9. Determination of inorganic phosphate .

10 . Revision

GOODLUCK

Instructor: Afnan & Haifa