Kingdom of Saudi Arabia Ministry of Education Jazan University College of Pharmacy



المملكه العربيه السعوديه وزاره التعليم جامعه جازان كليه الصيدله

Biochemistry-II

Title: Biochemistry-II

Course number: 235 PHL

Semester: Fourth Semester (second year).

Duration: 2 + 1 Units (4 contact hours) per week.

Aims: To provide knowledge on biomolecules.

Objectives: Upon successful completion of the course the student should be able to comprehend the metabolic pathways of carbohydrates, amino acids, proteins, nucleic acids, lipids, steroids and their regulations.

Contents:

Lectures: The metabolic pathways of biomolecules: carbohydrates, amino acids, proteins, vitamins, nucleic acids, lipids, enzymes, steroids and their regulations and prostaglandins.

Disorders of metabolic pathways, clinical enzymology, evaluation of liver function, hemoglobin; electrolytes, blood gases and acid-base balance; endocrine disorders

Practical: Blood analysis of plasma carbohydrates, lipids, enzymes, urine analysis, renal stone analysis, isoenzymes, serum enzymes, assessment of renal and liver function and electrophoresis of serum lipoproteins

Minimum course requirements: 30 (2 x 15) Unit lectures and 30 practical hours (2 x 15) per level.

Evaluation methods:

-Quizzes	10%	
- Mid term examination	25%	

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- Practical examinations 25%

- Final examination (written) 40%

Text Books (latest editions):

1- Biochemistry, D.K. Jan.

2- Harper's Biochemistry, Robert K. Murray.

Recommended books (latest editions):

- 1- Biochemistry, Geoffery Zulf.
- 2- Principles of Biochemistry, David L. Nilson.