

Course Contract 2nd year 1st term

-Name of the course: Medical Biochemistry

-Academic year : 2nd year – 1st term

-Course title and Code : (BIC -211)

-Contact hours (Credit hours) : Lecture : (3 credit hours), Practical (1 credit hour), Total : (4 credit hours)

-Course aims:

- This course ensures that students gained metabolic pathways of different biomolecules in the human body(Carbohydrates and lipids), their important derivatives, their biological role and their regulation present in the human body.
- It trains the students to perform some biochemical laboratory analysis that has a role in the diagnosis of some metabolic diseases and how to interpret these results
- It allows the student to use electronic-learning facilities to be self learner and to prepare medical essay and present it.

-ILOS:

a1. Describe and illustrate different methods of energy production, collection and storage from different biomolecules.

a2- Demonstrate the metabolic pathways of different *carbohydrates and lipids* present in the body and illustrate their regulation and their biomedical importance in health and disease

b1. Correlate between signs and symptoms of some diseases resulted from metabolic errors.

b 2- Apply the biochemical knowledge to solve medical cases and suggest treatment.

c1. Use the different laboratory equipments appropriately

c 2- Perform proper urine analysis and correlate the abnormal constituents with diseases.

d1. Perform computer search and get medical information through e-learning facilities and through University library.

d 2- Work in a team and apply this by sharing in the scientific activities and Faculty conferences.

Student assessment:

quizzes, essays ,researches ,practical and oral exams.

Course Contract 2nd year 2nd term

-Name of the course: Medical Biochemistry

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-Course title and Code : (BIC -212)

-Contact hours (Credit hours) : Lecture : (3 credit hours), Practical (1 credit hour), Total : (4 credit hours)

-Course aims:

- This course present in the human body The metabolic pathways of different biomolecules in the human body, their important derivatives, their biological role and their regulation.
- It allows the student to identify metabolic disorders by correlating the biochemical data with symptoms of some diseases to improve the problem solving abilities of the students.
- It trains the students course allows the student to perform some biochemical laboratory analysis that has a role in the diagnosis of some metabolic diseases and how to interpret these results
- The course also trains students to use electronic-learning facilities and being self learner and to prepare medical essay and present it..

-ILOS:

- a1. Demonstrate and draw the metabolic pathways of different *amino acids*, **proteins**, and nucleic acid present in the body and illustrate their regulation and their biomedical importance in health and disease .
- a2. Enumerate and reason the metabolic role played by vitamins, enzymes and minerals and diseases that result from their deficiencies. .
- b1. - Correlate between signs and symptoms of some diseases with the presence of certain biochemical defects.
 - b 2-** Apply the biochemical knowledge to solve medical cases and suggest treatment.
- c1. Determine serum uric acid level accurately and its significance in the diagnosis of gout.
- c 2-Determine plasma glucose level accurately and its significance in the diagnosis of diabetes mellitus.
- d1. Work in a team by sharing in the scientific activities and Faculty conferences.
- d2-** Meet targets within deadline, and apply this in the scientific activities.

Student assessment:

quizzes, essays ,researches ,practical and oral exams.