

Diploma:

1-Code: 0902601

Name of the course: Applied Biochemistry I

Credit hours

Theoretical: 2

Practical: 0

Total: 2

Overall Aim of the Course

This course of applied biochemistry offers an insight on the structure and function of biomolecules in the human body and their relation to health and disease conditions.

2- Code: 0902606

Name of the course: Applied Biochemistry II

Theoretical: 3 Credit Hrs

Practical: 2 Credit Hrs

Total: 5 Credit Hrs

Overall Aim of the Course

This is an applied course of human biochemistry which provides an insight on metabolic processes both in health and disease with special focus on laboratory investigations of metabolic disorders.

3-Code: 0902605

Name of the course: Basic laboratory techniques in clinical chemistry I

Credit hours

Theoretical: 2

Practical: 2

Total: 4

Overall Aim of the Course

The course offers a comprehensive study of the basis of laboratory techniques that are frequently used in clinical chemistry to the pharmacists working in the area of laboratory biochemical analysis. This course aims to introduce these students to the current technologies and methods used in laboratory analysis, sampling, laboratory safety and quality control to achieve better performance during conducting different biomedical laboratory investigations.

4- Code: 0902610

Name of the course: Basic laboratory techniques in clinical chemistry II

Credit hours**Theoretical: 2****Practical: 2****Total: 4****Overall Aim of the Course**

The course offers a comprehensive study of the basis of laboratory techniques that are frequently used in clinical chemistry to the pharmacists working in the area of laboratory biochemical analysis. This course aims to introduce these students to the current technologies and methods used in laboratory analysis, pre-analytical sources of laboratory variation, the use of standards, calculations for the preparation of reagents, analysis of cerebrospinal, pleural and peritoneal fluids to achieve better performance during conducting different biomedical laboratory investigations.

5- Code: 0902604**Name of the course:** Basic laboratory techniques in immunology I**Credit hours****Theoretical: 1****Practical: 1****Total: 2****Overall Aim of the Course**

The course familiarizes the pharmacists working in the area of laboratory biochemical analysis with cellular, molecular and biochemical aspects of the development of the immune system and the immune response. This course aims to introduce these students to the current technologies and methods used in immunologic analysis to achieve better performance during conducting different biomedical laboratory investigations to make proper diagnosis.

6- Code: 0902609**Name of the course:** Basic laboratory techniques in immunology II**Credit hours****Theoretical: 1****Practical: 1****Total: 2****Overall Aim of the Course**

The course familiarizes the pharmacists working in the area of laboratory biochemical analysis with impact of the immune response in different pathological conditions. This course aims to introduce these students to the current technologies and methods used in immunologic analysis to achieve better performance during

conducting different biomedical laboratory investigations to make proper diagnosis.

7- Code: 0902602

Name of the course: Histology

Credit hours

Theoretical: 3 Practical: 0 Total: 3

Overall Aim of the Course

The course presents an overview of the basis of histology to the pharmacists working in the area of laboratory biochemical analysis. The focus of this course is the basic understanding of the microscopic structure of cells, tissues and systems in the human body and the direct relationship between the morphology (macro and microscopic structure) of such an organ and its function.

8- Code: 0902603

Name of the course: Laboratory techniques in hematology I

Credit hours

Theoretical: 2 Practical: 1 Total: 3

Overall Aim of the Course

The course offers a comprehensive study of the basis of hematology to the pharmacists working in the area of laboratory biochemical analysis. This course aims to introduce these students to the current technologies and methods used in hematologic analysis to achieve better performance during conducting different biomedical laboratory investigations.

9- Code: 0902608

Name of the course: Laboratory techniques in hematology II

Credit hours

Theoretical: 2 Practical: 1 Total: 3

Overall Aim of the Course

The course offers a comprehensive study of the basis of hematology to the pharmacists working in the area of laboratory biochemical analysis. This course aims to introduce these students to the current technologies and methods used in hematologic analysis to achieve better performance during conducting different biomedical laboratory investigations.

10- Code: 0902607

Name of the course: Physiology

Credit hours**Theoretical: 2****Practical: 0****Total: 2****Overall Aim of the Course**

The course presents an overview of the basis of physiology to the pharmacists working in the area of laboratory biochemical analysis. The course is designed to increase the student's understanding of the mechanisms involved in the normal functioning of the human body and the interaction and integration of various body processes, with special emphases regarding the effects of disease on that functioning.