Course SPECIFICATION
(Biochemistry)
Faculty of Medicine- Mansoura University

(A) Administrativeinformation

(1) **Programme Title& Code**	-Postgraduate master degree of - **Orthopediac and traumatology**
(2) **Final award/degree**	**First part**
(3) **Department (s)**	biochemistry
(4) **Coordinator**	Dr. Khalid Nour
(5) **Date of approval by the Department`s .council**	**11.5.2016**
(6) **Date of last approval of programme specification by Faculty council**	**9/8/2016**
(8)Total teaching hours:	**7.5**
(9)Credit hours:	**1/2**
(10) Course code:	**OSURG504**

(B) Programme Aims:

The broad aims of the Programme are to provide the students with :

1. The skill of carrying out a scientific research.
2. The skill of making an effective presentation**.**
3. The skill of supervising all steps of laboratory diagnosis.
4. Describe the general microscopic morphology of bacteria
5. Outline the nomenclature and classification of microbes

(C)Intended learning outcomes (ILOS)

A- Knowledge and Understanding

By the end of the course, students should be able to:

A1 Demonstrate general knowledge in biochemistry, chemistry and biology and will be able to apply principles from these disciplines in the solution of qualitative and quantitative biochemical problems.

A2 Understand the interplay of observational data, hypotheses, and hypothesis-driven experimentation through application of the scientific method.

A3 Become proficient in biochemical laboratory techniques and be able to apply these to practical and current problems in research.

A4 Be able to read and critically evaluate biochemical and biochemistry-related literature.

A5 Learn to present scientific data clearly and effectively through both written and verbal communication.

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B- Intellectual skills

B1 Categorize the mechanism of resistance of bacteria to antibiotics..

B2Assess the advantages of individual methods of molecular diagnosis for diagnosis of infections.

B 3 Analyze and explain the pitfalls encountered in PCR results.

B4 Interpret the results of serological tests.

B 5 Achieve a specific or differential diagnosis

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B6 Relate the clinical features, etiology, pathogenesis of infectious diseases.

B7 Categorize the biosafety level of handling of specimens

B 8 Plan the laboratory investigations for the diagnosis of infectious diseases.

B9 Interpret the results of biochemical reactions and correlate them with the culture characters and results of smear.

(D)Course content

Subject	Teaching Hours
Physical chemistry	1
vitamins	1
enzymes	1
Biochemistry in cancer	1
Minerals	1
hormones	1.5
Body fluids	1

(F) COURSE STRUCTURE:

- **Teaching methods:**
  Lectures
- **<u>assessment methods:</u>**
  - **Written Exam to assess knowledge and intellectual skills.**
  - **Oral Exam to assess knowledge**

- **Assessment schedule:**
  - Assessment 1. Written Exams Short essay after 6 months from the date of registration to the degree
  - Assessment2:Oral Exams after 6 months from the date of registration to the degree

- **Percentage of each Assessment to the total mark:**

Written exam: 60 %

Oral exam: 40 %

Other assessment without marks:

Assessmentof attendance & absenteeism throughout the course

Research assignment to assess intellectual skills

- **References of the course:**

Hand books: Book notes of BIOCHEMISTRY department.
Text books:Ganong Text book of physiology.

Programme admission requirements:

- **General requirements:**

According to the faculty postgraduate by laws

(1) Regulations for progression and programme completion:

- Attendance of the scientific meetings of the department.
- Attendance of lectures and lab classes with 75% minimal attendance.
- Attendance of the seminars, training courses, conferences and thesis discussions in the department.
- Log book should be fulfilled and signed by Head of the department

Coourse Coordinator:
Khalid Nour
Head Of The Department:
Hani El Mowafi