



COURSE SPECIFICATION

Elective course

(Cytokines)

Faculty of Medicine- Mansoura University

(A) Administrative information

(1) Programme offering the course:	MSc of Medical Biochemistry
(2) Department offering the programme:	Medical biochemistry department
(3) Department responsible for teaching the course:	Medical biochemistry department
(4) Part of the programme:	1 st part
(5) Date of approval by the Department's council	1/11/2015
(6) Date of last approval of programme specification by Faculty council	9/8/2016
(7) Course title:	Cytokines
(8) Course code:	BIC 504 CY
(9) Total teaching hours:	30 hours
(10) Total credit hours:	2 hours

(B) Professional information

(1) Course Aims:

Provide the candidate with recent data as regard the role of cytokines in the immunity, inflammatory response& haematopoiesis.

(2) Intended Learning Outcomes (ILOs):

On successful completion of the course, the candidate will be able to:

A- Knowledge and Understanding:

AIV.a: Recognizing general properties of the cytokines.

AIV.a.1: defining cytokines

AIV.a.2: Explaining functional categories of the cytokines.

AIV.a.3: identifying different types of cytokines receptors.

AIV.a.4: Recognize the mechanism of cytokines signaling.

AIV.b: Explaining different cytokines that mediate and regulate the innate Immunity.

AIV.b.1: Recognize the role of cytokines in innate Immunity and Inflammation

AIV.c: Explaining different cytokines that mediate and regulate the adaptive Immunity.

AIV.c.1 Recognize the role of T cell cytokines in specialized adaptive Immune response.

AIV.d: Explaining the role of cytokines in hematopoiesis.

B- Intellectual skills

BIV.1	Formulate a systematic approach for laboratory diagnosis of metabolic complications of diseases
BIV.2	Make oral presentation and open discussions about scientific issues in a professional way.

(3) Course content.

Subjects	No. of Teaching Hours	
	Lectures	Laboratory
1- General properties of the cytokines	6	–
2- Different cytokines that mediate and regulate the innate Immunity	8	–
3- Different cytokines that mediate and regulate the adaptive Immunity	8	–
4- The role of cytokines in hematopoiesis	8	–
Total Teaching hours	30	–

(4) Teaching methods.

- 4.1. Lecture
- 4.2. Tutorial
- 4.3. Seminars

(5) Assessment methods.

5.1. Written Examination for assessment of knowledge and intellectual ILOs

MCQ continuous assessment for assessment of knowledge and intellectual ILOs

5.2 Log book for activities for assessment of: mainly for assessment of practical & transferrable skills which are accepted through attending different conferences, thesis discussions, seminars, workshops, attending scientific lectures as well as self learning.

5.3 seminars. the candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the department staff (without marks).

Assessment schedule.

Assessment 1: after 12 month from job registration (written, exam with marks)

Assessment 2 : MCQ exams at the end of each semester

Assessment 3: the candidate should prepare and present at least one seminar in atopic related to the course and determined by the supervisors in front of the department staff (without marks).

Percentage of each Assessment to the total mark.

Written exam. 80% 48 Marks

MCQ exam. 20% 12 MARKs

Other assessment without marks., seminars and log book assessment are requirement of the 1st part exam.

(5) References of the course.

6.1: Text books:

- Cellular and molecular immunology: 6th edition by Abbas AK, Lichtman AH and Pillai S- ELSEIVER, 2007.

6.2: Websites:

- <http://www.medlib.iupui.edu/ref/biochem.htm>
- The Biology Project (from the University of Arizona):
<http://www.biology.arizona.edu/default.html>
- Harvard Department of Molecular & Cellular Biology Links:
<http://mcb.harvard.edu/BioLinks.html>

(6) Facilities and resources mandatory for course completion.

- Lecture rooms: available in the department

Course coordinator: Staff members of credit committee of the department.

Head of the department: Prof. Dr/ Fagr Bazeed

Date: 1/11/2015.