Course Specification

University: Menoufiya Faculty: Science

Course Specifications:

Programme (s) on Which the Course is Given: Diploma of Hematology

Major or Minor Element of Programmes: Major

Department offering the Program: Zoology

Department offering the Course: Zoology

Academic Year/ Level: ------

Date of Specification Approval: 2010

A- Basic Information

Title: Vaccination Code: Z5116

Credit Hours: 2 Lecture: 2

Tutorial: 0 Practical: 0

Total: 2

B- Professional Information

1- Overall Aims of the Course: By the end of this course, the student should be able to

* Develop an understanding of the fundamental principles of immunology.

* Develop an understanding of Type of immunization and route of administration.

* Develop an understanding of adverse reaction to vaccine.

2- Intended Learning Outcomes of Course (ILOs):

a- Knowledge and Understanding:

a1- Recognize the significance of the immune system in combating infection and disease.

a2- Know the distinction between passive and active immunization and their examples.

a3- Distinguish between artificial and natural means of immunization.

a4- Know the applications and problems of artificial passive immunization.

a5- Identify the applications and problems of artificial active immunization.

a6- Know the modern approaches to immunization.

b- Intellectual Skills:

b1- Measure the student capability to differentiate between natural and artificial immunization.

b2- Define the modern approaches to immunization.

b3- Discriminate between passive and active immunization.

b4- Distinguish the significance of the immune system in combating infection and disease.

c- Professional and Practical Skills:

c1- Demonstrate skills in identification types of immunization.

c2- Distinguish between artificial and natural means of immunization.

c3- Compare between different type of vaccination.

d- General and transferable Skills:

d1- Measure the scientific writing ability.

d2- Utilize the oral communication skills.

d3- Use appropriate lab equipment.

d4- Use the appropriate technology such as (Internet) for scientific research.

3- Contents

Topic	No. of Hours	Lecture	Tutorial / Practical
Immunology (Introduction)	2	2	
Innate immune response	2	2	
Adaptive immune response	4	3	
History of	2	1	

vaccination			
Live & attenuated microorganisms vaccine	4	1	
Killed microorganisms vaccine	2	1	
Subunit vaccine	2	1	
Vaccine safety	2	1	

4- Teaching and Learning methods

4.1-Lectures.

4.2-Oral presentation.

4.3- Research assignment.

4.4-Practical demonstration.

5- Student assessment methods

5.1-Reports to assess Collection of course material.

5.2- Mid-term exam to assess Mid-term performance.

5.3-Practical and oral exam to assess practical skills.

5.4-Final term exam to assess end of course performance.

Assessment schedule

Assessmen1 Mid term Week

Assessment2 semester activities Week 5 and 8

Assessment3 final term practical exam Week 13

Assessment4 final term exam Week 14

Weighting of assessments

Mid-Term Examination	20 %
Final-Term Examination	40%
Oral Examination	10%
Practical Examination	20%
Semester Work	10%
Other Types of Assessment	0%
Total	100%

6- List of references

6.1- Course Notes:

***** Lecture notes.

6.2- Essential books (text books)

* Vaccine Protocols.

***** Immunology (Ivan Roiit).

* Immunology (Kuby).

6.3- Recommended books:

* General Physiology.

* Immunology (Hyde).

* Cellular and Molecular Immunology.

6.4- Periodicals, Web sites….Etc:

* Journal of Immunology.

7-Facilities required for teaching and learning:

* Lecture room provided with a white board.

* Dark room equipped with overhead and slide projectors, data show.

Course coordinator: Dr. Hany M. Ibrahim

Head of Department: Prof. Saber Sakr

Date: 15/1/ 2013