# **Course Specification**

University:	Menoufiya
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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: 2013

## **A- Basic Information**

Title: Physiology of blood and circulationCode: Z510

Credit Hours: 2

Tutorial: 0

Practical: 0

Lecture: 2

Total: 2

## **B-** Professional Information

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

\* Understand the structure and functions of the blood.

\* Understand the formation of red blood corpuscles.

\* Understand the causes and development of some haematologic diseases like different types of

anemia.

\* Understand of some important definitions in the field of circulation

## 2- Intended Learning Outcomes of Course (ILOs):

#### a- Knowledge and Understanding:

al- Define the haemopoeitic organs.

a2- Discribe the blood formation.

a3- Know some haematologic phenomena and mechanisms.

a4- Understand of some important definitions in the field of circulation

## **b- Intellectual Skills:**

b1- Measure the student capability to identify the structure and functions of blood components.

b2- Define the blood formation inside the body.

b3- Understand of some important definitions in the field of circulation

## c- Professional and Practical Skills:

c1- Determine student capability to identify the structure and functions of blood components

# d- General and transferable Skills:

d1- Measure the scientific writing ability.

d2- Utilize the oral communication skills.

d3- Use the appropriate technology such as (Internet) for scientific research.

# **3-** Contents

Торіс	No. of Hours	Lecture	Practical
- Blood plasma :chemical constituents and functions	2	1	
Red blood cells: origin, morphology , characters, fate and functions	2	1	
-White blood cells: Types and morphology as well as functions of each type.	4	2	
- Thrombocytes : characters and functions.	2	1	
-Blood transfusion and blood groups.	2	1	

-The general blood			
circulation.	2	1	
-Structures of the heart.	2	1	
	2	1	
-Physiology of the heart			
and cardiac metabolism.	2	1	
-Conduction system.		4	
	2	1	
-The general blood			
circulation.	2	2	

# 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.
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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

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 1	.00%

## **6-** List of references

## 6.1- Course book

\* Textbooks of Hematology.

\* Textbook of Physiology.

## **6.2- Recommended books**

\* Essentials of Hematology.

\* General Biochemistry & Hematology.

# **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: Prof. Dr. M. F. F. Bayomy

Head of Department: Prof. Saber Sakr

Date: 15/1/2013