

## Course Specification

### A- Basic Information

<b>Programme(s) on which the course is given:</b>	MSc of General Physiology
<b>Department responsible for offering the course:</b>	Zoology
<b>Department responsible for teaching the course:</b>	Zoology
<b>Academic year:</b>	2012-2013
<b>Course title and code:</b>	Physiology of blood Z610
<b>Contact hours (credit hours):</b>	Lecture: 2 hrs      Practical: 2hrs Total: 3 hrs
<b>Course coordinator:</b>	Prof. M. F. F. Bayomy

### B- Professional Information

The course aim and intended learning outcomes are based on that mentioned in the programme specifications, with more course-related specific details.

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

- \*Outline the structure and functions of the blood.
- \* Identify the formation of red blood corpuscles.
- \* List the causes and development of some haematologic diseases like different types of anemia.

#### **a- Intended Learning Outcomes of Course (ILOs):**

##### **b- Knowledge and Understanding:**

- a1- Define the haemopoietic organs.
- a2- Describe the blood formation.
- a3- Know some haematologic phenomena and mechanisms.

##### **c- Intellectual Skills:**

- b1- Measure the student capability to identify the structure and functions of blood components.
- b2- Define the blood formation inside the body.

**d- Professional and Practical Skills:**

c1- Determine student capability to do some blood parameters like counting of blood cells and determination of Hb & hematocrit ..etc.

**e- 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.

**2- Course Contents**

Topic	No. of hours	Tutorial/ Practical	Lecture
Some definitions	1	2	1
Functions of blood	1	2	1
Erythropoeisis & anemias	4	2	4
White blood cells	2	2	2
Thrompocytes & blood clot	2	2	2
Blood plasma	3	2	3

**3- Teaching and Learning Methods**

- Lectures.
- Practical sessions.
- Writing essays.
- Oral presentation.

**4- Student Assessment Methods**

- Essays
- Oral exms
- Written exams.
- Practical exams.
- Quizzes.

### **Assessment schedule**

Assessment 1	Essay	Week 1 essay/term
Assessment 2	Oral exam	Twice/term
Assessment 3	Mid-term exams	Week 7
Assessment 4	Semester Work Exam	Week 10
Assessment 5	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%
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Total	100%

### **6- List of references**

#### **1. Course Notes**

- 1- Internet and library material.
- 2- Handouts given separately during the course span.

#### **2. Essential Books (Text books):**

- 3- Textbooks of Hematology

#### **3. Recommended Books**

- 4- Essentials of Hematology.
- 5- General Biochemistry & Hematology.

#### **4. Periodicals, web sites,...,etc**

- 6- Journal of Biochemistry & Hematology

### **7- Facilities required for teaching and learning**

- \* Dark room equipped with overhead and LCD projector.
- \* Laboratory slides and specimens.
- \* Librarian facilities.
- \* Computers with internet Access.

**Course coordinator:** Prof. M. F. F. Bayomy

**Head of Department:** Prof. Saber Sakr

**Date:** January / 2013

