# Course Specification

## A- Basic Information

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|---|---|
| **Programme(s) on which the course is given:** | M. Sc of General Physiology |
| **Depaetment responsible for offering the course:** | Zoology |
| **Depaetment responsible for teaching the course:** | Zoology |
| **Academic year:** | 2012-2013 |
| **Course title and code:** | Toxicology Z6110 |
| **Contact hours (credit hours):** | Lecture: 2 hrs Practical: 2hrs<br>Total: 3 hrs |
| **Course coordinator:** | 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 toxic effects of some poisons in living systems.
* List the detoxification mechanisms inside the body.

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

### b- Knowledge and Understanding:

a1- List the factors affecting toxicity of substances on the living animal cells.

a2- Illustrate the uptake of different toxic chemicals in animal body.

a3- Give an outline of some environmental pollutants.

### c- Intellectual Skills:

b1- Measure the student capability to identify the type of toxins.

b2- Define the modern approaches to detoxification.

b3- Determine the different toxins influence on the different body systems.

### d- Professional and Practical Skills:

c1- Demonstrate skills in identification types of different toxins.
c2- Demonstrate the interaction or joint effect with other chemicals.
c3- Diagnose the signs of animal toxicity.

**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** |
| Factors affecting toxicity | **3** | **2** | **3** |
| Mechanisms of poisoning | **2** | **2** | **2** |
| Uptake of poisons | **2** | **2** | **2** |
| Detoxifications | **2** | **2** | **2** |
| Environmental pollutants | **3** | **2** | **2** |

## 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% |
| 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 Toxicology.
3. **Recommended Books**
   4- Essentials of Toxicology.
   5- General Biochemistry & Physiology.
4. **Periodicals, web sites,…,etc**
   6- Biochemistry & Physiology

**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***