

A- Basic Information

Title: Environmental pollution

Code: E6522

Credit Hours: 2

Lecture: 1

Practical: -

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 influence of some factors on the toxic effects of some poisons in living systems.

* Develop an Understanding of the detoxification mechanisms inside the body.

2- Intended Learning Outcomes of Course (ILOs):

a- To know and understand:

a1- To know about the factors affecting toxicity of substances on the living animal cells.

a2- To know about the uptake of different toxic chemicals in animal body.

a3- To give an outline of some environmental pollutants.

b- Intellectual Skills:

b1- To build the student's capability to know and understand the different foregoing topics & their influence on body systems and functions.

c- Professional and Practical Skills:

c1- To learn the students how to undertake some experimental tests related to the course.

d- General and transferable Skills:

d1- To encourage students to search for current knowledge about the topics of the curriculum.

d2- To improve student's writing ability

d3- To enhance oral communication ability.

3- Contents

Topic	No. of Hours	Lecture	Practical
Introduction & definitions	1	1	2
Factors affecting toxicity	3	3	2
Mechanisms of	2	2	2

poisoning			
Uptake of poisons	2	2	2
Detoxifications	2	2	2
Environmental pollutants	3	3	2

4- Teaching and Learning methods

4.1- Lectures.

4.2-Research assignment.

4.3- Methods of dissection.

4.4- Oral presentation.

5- Student assessment methods

5.1- Reports to assess collection of course materials.

5.2- O arguments to assess ability of understanding.

5.3- Mid-term exam to assess the mid-term performance.

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

Assessment schedule

Assessment 1 Report	Week 1report/ 3 weeks.
Assessment 2 Report defense	Week every 3 weeks.
Assessment 3 Mid-term	Week Mid-term.
Assessment 4 Final exam	Week final exam.

Weighting of assessments

Mid-term examination	20%.
Final-term examination	40%.
Oral examination	5%.
Practical examination	20%.
Semester work	15%
Other type of assessment	---
Total	100%

6. 1- List of references

O'Donnell, C.P(2012):Ozone in food processing

Handa,S.K (2012): principles of pesticide chemistry

Hodgson ,Emest (2012): pesticide biotransformation and disposition

Fayez ,A.A (2011): pesticide residues analysis of chloropyrifos- ethyl ,penconazol and imidacloprid on tomato fruits and their stability under environmental conditions

6. 2- Recommended books

Leftwich,A.w (1983): A Dictionary of Entomology.

Hassan, M. D. A (2003): Chemical studies on the behavior of some pesticides on some environmental elements.

Fulekar ,M.H (2010):Bioremediation technology recent advances.

.

7- Facilities required for teaching and learning

- * Well-equipped lab.
- * Dark room supplied with overhead projector and data show.

Course coordinator: Prof. Mohamed FathyFaragBayomy.

Head of the Department:Prof.SaberSakr