Course Specification

A-Basic Information

Programme(s) on which the course is	MSc of General Physiology	
given:		
Department responsible for offering	Zoology	
the course:		
Department responsible for teaching	Zoology	
the course:		
Academic year:	2012-2013	
Course title and code:	Radiobiology Z 6124	
Contact hours (credit hours):	Lecture: 2 hrs Practical: 0hrs	
	Total: 2 hrs	
Course coordinator:		

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

*Be aware with radiation sources bioassay methods and characters of ionizing radiations.

2- Intended Learning Outcomes of Course (ILOs):

a-Knowledge and Understanding:

al-Discuss the application of radiation.

b-Intellectual Skills:

b1- To identify the source of radiation and their pollution.

c- Professional and Practical Skills:

c 1- Be familiar with the effect of ionizing radiation and other environmental radioactive pollution.

d-General and Transferable Skills:

- d1:Develop the scientific writing skills
- d2: Enhance the oral communication during presentation.

3- Course Contents

	Topic	No. of Tutorial/ Lecture
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^{*}Describe radiation protection and control.

	hours	Practical	
Sources of ionizing radiation	2	-	2
Characteristic of ionizing radiation, radiation units.	2	-	2
Molecular effect of radiation.	2	-	2
Organic damage from ionizing radiation	2	•	2
Interaction of radiation with matters.	2	•	2
Management of internal and external radioactive contamination	2	-	2
Target theory	2	-	2
Biological dosimetry	2	-	2
Radiation protection and control	2		2
Application of radiation	2	-	2

4- Teaching and Learning Methods

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

5- 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 V	Veek 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

6.1- Course Notes:

* Lecture notes.

6.2- Essential books (text books)

- * Text book of Radiobiology.
 - * Radiobiological information
 - * Notes in radiobiology

6.3- Recommended books:

6.4- Periodicals, Web sites....Etc:

7- Facilities required for teaching and learning

- * Dark room equipped with overhead and LCD projector.
- * Laboratory with suitable equipments.
- * Librarian facilities.
- * Computers with internet Access.

Course coordinator:

Head of Department: Prof. Saber Sakr

Date: 15/1/2013