Title:	Genetic control of insect		Code:
E 6512			
Credit Hours:	2 hrs		
Lecture: 2	Tutorial: 0	Practical: 0	Total:
2			

B- Professional Information

1- Overall Aims of the Course: By the end of this course, the student should be able to: * application ofgenetics to the protiction of man. * crop plants and livestock against insects. * sterilizing techniques for control of insects.* Identify the DNA degradation. * understand the apoptosis in insect. * RNA interference.

2- Intended Learning Outcomes of Course (ILOs):

a.Knowledge and Understanding: the student should be able to a1.understand the molecular organization of DNA,RNA

a2. Know types of genes.

b- Intellectual Skills:

b1- Conclude different techniques applied in gene control

b2. Apply and analysis of DNA

b3. Apply of genes in insect control

c- Professional and Practical Skills:

c1- Use appropriate lab equipment and tools for gene control

c2- Design and perform experiments in the lab and field within proper technical,

d- General and Transferable Skills:

d1- Computer-based mining of databases and references about biotechnology.

d2- Work coherently and successfully as a part of team in projects and assignments.

3- Contents

Торіс	No. of Hours	Lecture	Tutorial / Practical	
Basic princeples	2	2	0	
insect resistance	2	2	0	
the DNA And RNA	2	2	0	
Biology of inscets organs	2	2	0	
Insect taxonomy	2	2	0	
Genetics of insects	2	2	0	
Genetics of man	2	2	0	
Crop plants and livestock	2	2	0	
against of insect				
General Entomology	2	2	0	

4- Teaching and Learning methods

* Oral and writer *Video presentation *Poster presentation *Projector presentation *Lab top presentation 5- Student assessment methods *Report per week * Tables and models *Med term exam. To assess success * Final term exam. to assess success * Oral exam. Per week Weighting of assessments Mid-term examination 20 Final-term examination 40 Oral examination 20 Semester work 20 Other type of assessment 0 Total 100%

6- List of references 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

El-TEMSAH,Y.S.I (2007): potential uses of mycorrhizal fungi as a pesticide bioremediation agent

7- Facilities required for teaching and learning

*Journey and visits of different ecological natures. * Dark room for presentation * lab. Top. *- Computer *-LCD projector * Video * Internet

Course coordinator:Prof. Mohamed Khalil

Head of Department: Prof. Saber Sakr