

UNIVERSITI TEKNOLOGI MARA AGC701: IDENTIFICATION OF CROP PESTS AND CONTROL

(English)	FICATION OF CROP PESTS AND CONTROL APPROVED 1		
Course Code AGC70	1		
	AGC701		
MQF Credit 3			
Description crops. A and sea	This course will teach students on identifying and managing major pests of field crops. At the end of this course,the students will familiarize with the nature of damage and seasonal incidence of insect pests that cause loss to major field crops and their effective management by different methods.		
Transferable Skills Studen make c	Students can describe, analyze, interpret the prediction of pest population level and make control recommendations		
Teaching Lecture Methodologies	Lectures, Discussion		
CLO2 CLO3 CLO4	Describe and explain the basic principles of insect with emphasis on its biological characteristics classification of insects Verbally, visually (pictures, structure & shape) and relate as well as discuss the classification of insects Analyze, interpret & employ the concept, theories in entomology for identification of insect ecology and their relationship with plant Communicate to peers verbally and to the facilitator in describing the prediction of pest population level and make control recommendations Collaborate, motivate and truthful with group members in the lecture room		
Pre-Requisite No cou	rse recommendations		
Topics			
1. 1.0 Overview of Insect 1.1) 1 Insect morphology 1.2) 1.2 Insect metamorphosi 1.3) 1.3 Physiological system 1.4) 1.4 Insect nutrition 2. 2.0 Insect Classification	s and moulting of insect		

- 2. 2.0 Insect Classification
 2.1) 2.1 Evolutionary history of insects
 2.2) 2.2 Introduction to phylogeny of insects
 2.3) 2.3 Distinguish character, habit and habitats of Insect
 2.4) 2.4 Beneficial and harmful insects

- 3. 3.0 Insect ecology
 3.1) 1 Basic concepts of ecology
 3.2) 3.2 Population dynamics and assessment
 3.3) 3.3 Abundance and diversity of insects
 3.4) 3.4 Seasonality in insects

4. 4.0 Insect-plant relationship

- 4.1) 4.1 Host-plant selection by phytophagous insects 4.2) 4.2 Insect-plant interaction 4.3) 4.3 Role of plant secondary metabolites 4.4) 4.4 Insect vectors of plant disease

5. 5.0 Economic importance

- 5.1) 5.1 Seasonal occurrence 5.2) 5.2 Nature of damage
- 5.3) 5.3 Patterns of pest damage and assessment 5.4) 5.4 Crop-pest modeling

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- 6. 6.0 Insect Pest Management
 6.1) Preventive measures
 6.2) 5.2 Curative measures
 6.3) 5.3 Integrated Pest Managment
 6.4) 5.4 Insecticide resistance management
 6.5) 5.5 Insect protective transgenic crops

7. 7.0 Major pest of field crops 7.1) 7.1 Plantation crop 7.2) 7.2 Vegetable crops 7.3) 7.3 Fruit crops 7.4) 7.4 Herbs

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Assessment Breakdown	%
Continuous Assessment	70.00%
Final Assessment	30.00%

Details of					
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO	
	Assignment	Report Assignment	5%	CLO5	
	Assignment	Report Assignment	15%	CLO3	
	Assignment	Video Presentation	20%	CLO4	
	Test	Written Test	30%	CLO1	

Reading List	Recommended Text	Evans JW. 2005, <i>Insect Pests and their Control.</i> , Asiatic Publ., New Delhi, India	
	Reference Book Resources	Dhaliwal GS, Singh R & Chhillar BS. 2006, <i>Essential of Agricultural Entomology</i> , Kalyani Publ., New Delhi	
Article/Paper List	This Course does not have any article/paper resources		
Other References	This Course does not have any other resources		

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