Semester	**8**		
Course code	**ZOOL 42632**		
Course Name:	**Agricultural Entomology**		
Credit Value:	2		
Core/Optional	Core		
Pre requisites	**ZOOL 41524**		
Co-requisites	**None**		
Hourly Breakdown	Theory	Practical	Independent Learning
	20	30	50

Course Aim/Intended Learning Outcomes:

After completion of the course unit, the student will be able to;

- identify insect and mite pests of agriculture crops, plantation crops and stored food/products in Sri Lanka,
- describe injuries caused by insect and mite pests and their damage symptoms in the host/host plant,
- design strategies and recommend appropriate control measures for the management of insect or mite pests of a given crop or a stored product,
- explain procedures and techniques used in integrated pest management and
- demonstrate practical skills to identify life history stages of insect and mite pests of agriculture crops, plantation crops and stored food/products in Sri Lanka, and
- demonstrate practical skills to identify damage symptoms caused by above insect and mite pests.

Course Content:

Introduction to Agricultural Entomology; identification and life histories of insect and mite pests of agriculture and plantation crops such as coconut, tea, sugarcane, rice and selected fruit and vegetable crops in Sri Lanka and identification of their injuries to the crop and damage symptoms; management practices adopted against individual pest situation including use of biological control agents; Identification and life histories of insect pests of stored rice, paddy, flour and legumes and selected other dry/stored food and preventive measures and management practices adopted against pest situation in storage and warehouses; Causes of insect pest outbreaks; concepts in insect pest management including, General Equilibrium Level, Economic Threshold Level and Economic Injury Level; Integrated Pest Management.

Laboratory and field practical sessions on identification of life history stages of insect and mite pests of rice, coconut, tea, sugarcane, selected fruit and vegetable crops and stored food/food products and identification of damage symptoms caused by them. Use of insect taxonomic keys for the identification of polyphagous insect pests such as aphids; Types of insecticides and application utensils and equipment.

Teaching /Learning Methods: A combination of lectures, laboratory and field sessions, assignments, self-studies, computer assisted learning, and small group discussions.

Assessment Strategy: Continuous assessment and end of course examination.

Continuous Assessment 40%	Final Assessment 60%		
Details: Online and/or in-class assignment/quizzes 40%	Theory (%) 60%	Practical (%) NA	Other (%)(specify) NA

Recommended reading:

1. Hill, D.S. (1983). Agricultural insect pests of the tropics and their control. 2nd edition Cambridge University Press, Cambridge.
2. Pedigo L.P. & M. Rice (2006). Entomology and Pest Management Pearson, NJ, USA.