

SEMESTER I
LSM3265 ENTOMOLOGY

Prerequisite: LSM2251 Ecology and Environment

Workload: 26 lecture hours + 24 tutorial/practical hours

Insects and other related terrestrial arthropod groups are the most diverse forms of life on earth. Insects are ideal models for studies in evolution, ecology, behaviour and the environment as the same body plan has been adapted to diverse functions in almost all terrestrial environments, and effecting many human endeavours. This module will equip students with knowledge in insect identification, phylogeny, ecology, beneficial, and pestiferous interactions with humans, and methods for their control.

S/N	Topics	Lecture hours
1.	Introduction to arthropods; compare and contrast insects, crustaceans and chelicerates.	4 John S. Ascher
2.	Insect morphology, physiology, endocrinology and development	2 John S. Ascher
3.	Systematics, phylogeny, major evolutionary events	4 John S. Ascher
4.	Behaviour, foraging, defence, courtship, sociality	4 John S. Ascher
5.	Ecological functions, in soil, water, insect-plant interactions	4 John S. Ascher
6.	Ecological functions, including predation and parasitism; insect societiesinsects	4 John S. Ascher/Huang Wei Song
7.	Insects and human society: understanding and controlling medical, veterinary, and crop pests	4 John S. Ascher
Total Lectures: 26h		
Practicals + Tutorials: 24h		
Total hours:		50h

TEXT BOOK (Recommended text):

Gullan PJ & Cranston P (2014) *The Insects: An Outline of Entomology* 5th edition. Wiley-Blackwell, UK.

Gibb TJ & Oseto CY (2005) *Arthropod Collection and Identification*. Academic Press, NY.

MODE OF ASSESSMENT: mid semester test 10%; insect collection 40%, final exam 50%

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