

SEMESTER II
LSM3272 – GLOBAL CHANGE BIOLOGY

Prerequisite: LSM1103

Workload: 26 lecture hours + 24 tutorial/practical hours

This module will introduce students to aspects of current environmental change and its effects on biological systems, including rising carbon-dioxide (CO₂) concentrations, climate change, loss of biodiversity, and eutrophication. Topics covered will include the following: climate change, global warming, land-use changes, invasive species, fire, carbon sequestration, carbon mitigation and global ecology. Students will explore prevailing environmental issues in greater depth through mini projects, classroom discussions and debates.

S/N	Topics	Lecture hours
1.	Introduction	2
2.	Habitat loss	4
3.	Extinctions	2
4.	Climate change	4
5.	Invasive species	4
6.	Fire	2
7.	Urban areas and climate change	2
8.	Global ecological analyses	4
9.	Protected areas and climate change	2
Total Lectures: 26h		
Practicals + Tutorials: 24h		
Total hours:		50h

TEXT BOOK (Recommended text):

Sodhi, N.S., B.W. Brook & C.J.A. Bradshaw. 2007. Tropical Conservation Biology. Blackwell, Oxford, UK. 332 pp.

MODE OF ASSESSMENT:

40% CA, 60% Final Examination

MODULE CO-ORDINATOR:

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