

Module code

SPB-3408

Type of module

Undergraduate: Biological Sciences – Elective

Tropical Tree Ecology and Conservation



Modular credits

4

Total student
engagement

56 hours

Prerequisite

SPB-1201 Diversity of Life OR SPB-1202 Organisms and Environment OR SPB-1203 Skills in Biological Sciences

Anti-requisite

None

Aims

To introduce students to both practical and theoretical knowledge in tropical tree ecology and conservation through a selection of seminal articles that have shaped these fields.

Module learning outcomes (MLO)

On successful completion of this module, a student will be expected to be able to:

MLO 1

Analyse the basic principles underlying the theories in tropical tree ecology and conservation.

MLO 2

Critically review scientific papers.

MLO 3

Analyse the major strengths and flaws of scientific studies.

MLO 4

Analyse the importance of defining a good hypothesis.

MLO 5

Apply appropriate sampling methods and statistical designs.

Module contents

Tropical tree ecology and conservation

Tropical tree diversity patterns

Hypotheses explaining the maintenance of diversity, plant productivity, climate change, land-use change, tree crops, and habitat fragmentation

Assessment

50%

Examination

50%

Coursework

Examination
50%

Presentation
30%

20%

■ Examination — 50% ■ Presentation — 30% ■ Debate — 20%

Formative assessment

Weekly meetings to discuss selected articles and presentations, allowing for feedback and discussion.

Summative assessment

COMPONENT		WEIGHTING
Examination		50%
Coursework		50%
Individual		50%
Presentation		30%
Debate		20%

Graduate attributes and skills

Programme learning objectives (PLO) addressed

1

PLO 1 (Fundamental Theoretical Knowledge in Biology)

3

PLO 3 (Integrated Laboratory, Field and Technical Skills)

5

PLO 5 (Sustainability and Responsible Practice)

2

PLO 2 (Application of Scientific Methods and Data Analysis)

4

PLO 4 (Critical Thinking and Problem-Solving Skills)

Sustainability concept addressed

13

SDG 13 Climate Action

15

SDG 15 Life on Land

Digital skills/software used (not limited to)

- Microsoft Office software (e.g. Word)
- Photo editing software (e.g. Photoshop)
- Organisational tools (e.g. Outlook calendar)
- eLearning platforms (e.g. CANVAS, Zoom)

Micro-credentialling option

No

Stackable towards GenBESTARI Undergraduate Degree Programme or other relevant Lifelong Learning Programmes

No

Document details

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