

Module code

SPB-2203

Type of module

Undergraduate: Biological Sciences – Major Core

Plant Form and Function



Modular credits

4

Total student
engagement

56 hours

Prerequisite

None

Anti-requisite

None

Aims

To describe basic plant morphology by relating internal structures to external morphology and organ functions. To understand the development of plant structures, major morphological and ecophysiological adaptations, and the evolution of important plant groups over time.

Module learning outcomes (MLO)

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

MLO 1

Analyse the vegetative and reproductive morphology of plants.

MLO 2

Analyse the inner workings of plants.

MLO 3

Analyse how modifications of existing plant structures can lead to better environmental adaptations.

MLO 4

Predict the life history strategies of plants based on their morphology.

MLO 5

Predict the kinds of plants that can be expected in specific environments.

Module contents

Organology and vegetative structure of fern and fern allies, angiosperms and gymnosperms

Reproduction in spore and seed plants

Plant anatomy in relation to function and biomechanics

Morphological and anatomical adaptations to extreme environments

Plant life cycles

Assessment

60%

Examination

40%

Coursework

Examination
60%

20%

20%

■ Examination — 60% ■ Tests — 20% ■ Practical assignments — 20%

Formative assessment

Weekly discussion
and feedback

Summative assessment

COMPONENT	WEIGHTING
Examination	60%
Coursework	40%
Individual	40%
Tests	20%
Practical assignments	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)

2

PLO 2 (Application of Scientific Methods and Data Analysis)

4

PLO 4 (Critical Thinking and Problem-Solving Skills)

Sustainability concept addressed

15

SDG 15 Life on Land

Digital skills/software used (not limited to)

- Word processing software (e.g. Microsoft Word)
- Photo editing software (e.g. Photoshop)
- Organisational tools (e.g. Outlook calendar)

Micro-credentialling option

No

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

No

Document details

Office ODVCE Document date 29 June 2026 Status New