

Module code

SPB-3201

Type of module

Undergraduate: Biological Sciences – Major Core

Research Project



Modular credits

8

Total student
engagement

112 hours

Prerequisite

None

Anti-requisite

None

Aims

To develop students' independent research, critical thinking, and communication skills by providing practical experience in designing, conducting, analysing, and presenting biological research.

Module learning outcomes (MLO)

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

MLO 1

Review scientific literature to identify a research problem and develop a coherent research framework.

MLO 2

Design a comprehensive research proposal, including the introduction, aims, objectives and/or research questions, hypothesis, methodology and expected outcomes.

MLO 3

Apply appropriate research methods and conduct experiments or data collection safely and effectively.

MLO 4

Analyse, interpret, and evaluate data and findings in relation to scientific concepts and study design.

MLO 5

Communicate research outcomes effectively through written reports, articles or dissertations and through oral presentations and viva voce, adhering to ethical and sustainable practices.

Module contents

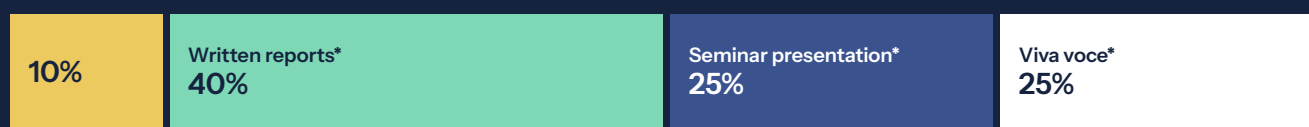
Introduction to scientific research	Literature review and background of the research	Research design and planning
Research proposal	Data collection, analysis and interpretation	Scientific writing and reporting (journal article)
Research presentation and defence (oral seminar and viva voce)	Research ethics and sustainability	Critical evaluation and reflection

Assessment

0% 100%

Examination

Coursework



■ Supervisor Assessment — 10% ■ Written reports* — 40% ■ Seminar presentation* — 25% ■ Viva voce* — 25%

Formative assessment

Weekly discussions on project progress

Summative assessment

COMPONENT	WEIGHTING
Examination	0%
Coursework	100%
Individual	100%
Supervisor Assessment	10%
Written reports*	40%
Seminar presentation*	25%
Viva voce*	25%

*Assessed by at least two examiners other than the supervisors

Graduate attributes and skills

Programme learning objectives (PLO) addressed

- | | |
|--|---|
| 1 PLO 1 (Fundamental Theoretical Knowledge in Biology) | 2 PLO 2 (Application of Scientific Methods and Data Analysis) |
| 3 PLO 3 (Integrated Laboratory, Field, and Technical Skills) | 4 PLO 4 (Critical Thinking and Problem-Solving Skills) |
| 5 PLO 5 (Sustainability and Responsible Practice) | |

Sustainability concept addressed

3	SDG 3 Good Health and Well-Being
4	SDG 4 Quality Education
9	SDG 9 Industry, Innovation and Infrastructure
12	SDG 12 Responsible Consumption and Production
13	SDG 13 Climate Action
14	SDG 14 Life below Water
15	SDG 15 Life on Land

Digital skills/software used (not limited to)

- Microsoft Office software (e.g. Word, Excel, PowerPoint)
- Application software (e.g. Web browsers, ImageJ/Fiji, statistical programs, public databases such as GenBank and PDB, cloud-based storage, file sharing platform)
- eLearning platforms (e.g. CANVAS, MS Teams, Zoom)
- Reference management (e.g. Mendeley, EndNote, Zotero)
- Acoustic analyses (e.g. Raven, Kaleidoscope)

Micro-credentialling option

No

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

No

Document details

Office **ODVCE** Document date **27 August 2026** Status **New**