

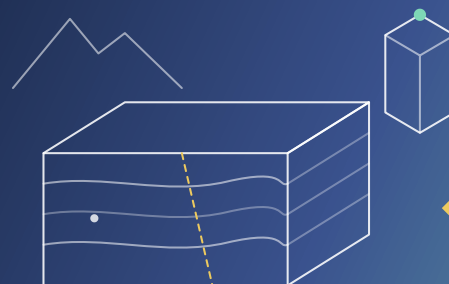
Module code

SPG-3408

Type of module

Undergraduate: Geosciences – Elective

Geology of Brunei and Surrounding Countries



Modular credits

4

Total student
engagement

56 hours

Prerequisite

SPG-1203 Introduction
to Geology

Anti-requisite

None

Aims

To cover key aspects of Brunei's geology and nearby regions. It features a sustainability theme, exploring sustainable resource use through lectures and practicals, and includes field excursions to strengthen students' practical field knowledge.

Module learning outcomes (MLO)

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

MLO 1

Collect, process and analyse geological data from fieldwork to support evidence-based interpretations.

MLO 2

Execute assigned roles and tasks effectively within a team to achieve field-based objectives.

MLO 3

Undertake multiple geological interpretations of outcrops, integrating observations to construct robust models.

MLO 4

Assess geological formations, sedimentary structures and tectonic processes in Brunei and neighbouring regions by synthesising field data, scientific literature and databases.

MLO 5

Evaluate the resource potential, economic viability and environmental implications of geological formations, considering principles of sustainable resource management.

Module contents

Geodynamic and Tectonic setting and contents of the Sunda plate and its surrounding tectonic plates

Brunei Delta and Sequences

Sequence stratigraphy of NW Borneo sediments

Petroleum geology and Coal of Brunei

Minerals and rare earth elements

Hydrogeology of Brunei

Sustainability: Soils and peatland science

Assessment

60%

Examination

40%

Coursework



■ Examination — 60% ■ Field note book assessment — 5% ■ Class tests — 15% ■ Fieldwork report — 10% ■ Poster presentation — 10%

Formative assessment

Weekly practicals, discussion and feedback

Summative assessment

COMPONENT	WEIGHTING
Examination	60%
Coursework	40%
Individual	20%
Field note book assessment	5%
Class tests	15%
Group	20%
Fieldwork report	10%
Poster presentation	10%

Graduate attributes and skills

Programme learning objectives (PLO) addressed

3	PLO 3 (Integrated Laboratory, Field and Technical Skills)	5	PLO 5 (Sustainability and Responsible Practice)
7	PLO 7 (Independent Learning and Professional Development)		

Sustainability concept addressed

4	SDG 4 Quality Education
6	SDG 6 Clean Water and Sanitation
13	SDG 13 Climate Action

Digital skills/software used (not limited to)

■	Word processing software (e.g. Microsoft Word)
■	Image digitising softwares (e.g. Adobe Photoshop, Adobe Illustrator, SedLog, Canva)
■	Data organisation software (e.g. Microsoft Excel)
■	File sharing platforms (e.g. OneDrive)

Micro-credentialling option

No

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

No

Document details

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