

Module Name	Mineralogy-Petrography
Code, if applicable	GEL 1102
Semester(s) in which the module	Second (2 nd) Semester
Person responsible for the module	Eko Haryono, Dr., M.Si.
Lecturer	Eko Haryono, Dr., M.Si. Langgeng Wahyu Santosa, Dr., M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Type of teaching	STAR (<i>Student Teacher Aesthetic Role-Sharing</i>) is an optimal combination between SCL (<i>Student Centered Learning</i>) and TCL (<i>Teacher Centered Learning</i>).
Workload	Lecturer: 1400 minutes, including homework and discussion = 14 meetings x 100 minutes each Mid Semester Examination: 100 minutes Final Semester Examination: 120 minutes Total workload = 1620 minutes
Credit points	2
Requirements according to the examination regulations	Must attend lecture for more than 70%
Recommended prerequisites	-
Module objectives/intended learning outcomes	Students are able to explain: <ol style="list-style-type: none"> 1. Mineralogy and petrography, mineral and rocks, importance of mineralogy and petrography in the study of geography. 2. Mineral crystal 3. The physical properties of mineral 4. The chemical properties of mineral 5. The optical properties of mineral 6. Petrography characteristic, classification, and identification of igneous rock 7. Clastic and non-clastic sediment rock 8. The characteristic of metamorphic rock 9. The distribution of sediment and metamorphic rock
Content	<ol style="list-style-type: none"> 1. Definition of Mineralogy Petrography 2. Mineral crystal 3. The physical properties of mineral 4. The chemical properties of mineral 5. The optical properties of mineral 6. Igneous Rock 7. Sediment Rock 8. Metamorphic rock
Study and examination requirements and forms of examination	Individual assignment 20%, Group assignment 10%, Summative Test (Mid-term and Final Exam) 60%, and other activity/Quiz 10%
Media employed	<ul style="list-style-type: none"> - ELISA website - Internet - Computers - Interactive video - LCD projector

Reading list	<p>Alan Wooley ed., 1978, <i>The Illustrated encyclopedia of the Mineral Kingdom</i>. The Hamlyn Group Ltd, New York.</p> <p>Dackombe and Gardiner, 1983. <i>Geomorphological Field Manual</i>. George Allen & Unwin. Sydney.</p> <p>Dana, 1987. <i>Mineral and How to Study Them</i>, John Wiley & Sons, Inc New York.</p> <p>Lahee FH. 1961. <i>Field Geology</i>. McGraw-Hill, New York. 6th</p>
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