

Module Name	Mineraology And Petrography (Practicum)
Code, if applicable	Gel 0102
Semester(s) in which the module	Third (3 rd) Semester
Person responsible for the module	M. Ngainul Malawani, S.Si, M.Sc
Lecturer	M. Ngainul Malawani, S.Si, M.Sc
Language	Bahasa Indonesia
Relation to curriculum	Compulsive
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>). Lecturer : 1400 minutes
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	1
Requirements according to the examination regulations	Must attend lecture for more than 70%
Module objectives/intended learning aoutcomes	1. Students are able to explain : <ul style="list-style-type: none"> ✚ Cristalography ✚ Physical Mineralogy ✚ Chemical Mineralogy (dry) ✚ Chemical Mineralogy (wet) ✚ Petrography – Igeneous Rock ✚ Petrography – Sedimentary Rock ✚ Petrography – Metamorphic Rock ✚ Optical Mineralogy and Petrography ✚ Introducing XRD and XRF analysis ✚ Field Workd
Content	<ol style="list-style-type: none"> 1. Cristalography 2. Physical Mineralogy 3. Chemical Mineralogy (dry) 4. Chemical Mineralogy (wet) 5. Petrography – Igeneous Rock 6. Petrography – Sedimentary Rock 7. Petrography – Metamorphic Rock 8. Optical Mineralogy and Petrography 9. Introducing XRD and XRF analysis 10. Field Workd
Study and examination requirements and forms of examination	Pretest (10%) , Practicum classes (20%), report (30%) , final examination/Responson (40%)
Media employed	<ul style="list-style-type: none"> - ELISA website - Internet - Computers - Interactive video - LCD projector
Reading list	Alan Wooley ed., 1978, <i>The Illustrated encyclopediao of theMeneral Kongdom</i> .The Hamlyn Group Ltd, New York.

	<p>Dackombe and Gardiner, 1983. Geomorphological Field Manual. 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. Field Geology. McGraw-Hill, New York. 6th</p> <p>Rencana Kegiatan Pembelajaran Mingguan (RKPM)</p>
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