

RPKPS

1. Nama Mata Kuliah : Mineralogy and Petrography (Practicum)
2. Kode/SKS/Sifat : GEL 0102/1/C
3. Prasyarat : Telah/Sedang Mengambil Mineraologi Petrografi (GEL 1102)
4. : Praktikum Mineralogy- Petrography berisi tentang mengenalkan cara-cara praktis dalam identifikasi mineral dan batuan. Cakupan materi praktikum ini meliputi kristalografi geometri, sifat fisik dan kimia mineral, identifikasi mineral utama pembentuk batuan, dan identifikasi makroskopis batuan, serta sifat optis mineral.
5. Tujuan Pembelajaran : Mahasiswa diharapkan mampu mengidentifikasi mineral dan batuan utama yang banyak dijumpai di lapangan serta proses-proses yang menyertainya.
6. Capaian Pembelajaran (Course Learning Outcome) :

CPMK	C1. Design and conduct research in mineralogy-petrography sciences using geographical approaches and geospatial technologies
CPMK 1	C1.1. Demonstrate proficiency to develop research proposal that makes use of spatial, ecological, and regional complex approaches and geospatial technologies
CPMK 2	C1.2. Demonstrate ability to implement research in laboratories and field in a safe manner
CPMK 3	C1.3. Demonstrate ability to write academic research report in the area of mineralogy and petrography
CPMK	C2. acquire and interpret mineralogy -petrography resources data
CPMK 4	C2.1. Demonstrate proficiency to gather, analyze, and interpret appropriate mineralogy and petrography data
CPMK 5	C2.2. Demonstrate ability to apply geospatial technologies in problem-solving
CPMK 6	C2.3. Design, implement and present the results of a research that makes use of geospatial technologies and geographical approaches

7. Pustaka Acuan

Nomer	Daftar Pustaka
1	Alan Wooley ed., 1978, <i>The Illustrated encyclopedia of the Mineral Kingdom</i> . The Hamlyn Group Ltd, New York
2	Boggs, S. 2009. <i>Petrology of sedimentary rocks</i> . Cambridge University Press.
3	Dackombe and Gardiner, 1983. <i>Geomorphological Field Manual</i> . George Allen & Unwin. Sydney.
4	Dana, 1987. <i>Mineral and How to Study Them</i> , John Wiley & Sons, Inc New York.
5	Endarto, Danang. 2012. <i>Batuan dan Mineral</i> . UNS Press.

Nomer	Daftar Pustaka
6	Lahee FH. 1961. <i>Field Geology</i> . McGraw-Hill, New York. 6 th
7	William D. Nesse, 2009. <i>Introduction to Mineralogy</i> . Oxford University Press

8. Rincian Topik

Minggu Ke	Topik Bahasan	Metode Pembelajaran	Media Ajar	Pustaka
1	Cristalography	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,5,7
2	Physical Mineralogy	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,5,7
3	Chemical Mineralogy (dry)	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,5,7
4	Chemical Mineralogy (wet)	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,5,7
5	Petrography – Igeneous Rock	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,4,5,7
7	Petrography – Sedimentary Rock	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,2,5,7
7	Petrography – Metamorphic Rock	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,4,5,7
8	Optical Mineralogy and Petrography	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,4,5,7
9	Introducing XRD and XRF analysis	Tatap muka, diskusi di kelas, STAR, SCL, Praktek di kelas	Slide pppt, laptop, proyektor	1,5,7
10	Field Workd	Lapangan	Peta, Alat lapangan, microphone	3,6

9. Mapping CPMK

Pertemuan	CPMK 1	CPMK 2	CPMK 3	CPMK 4	CPMK 5	CPMK 6
1	X	X	X	X		
2	X	X	X	X		
3	X	X	X	X		
4	X	X	X	X		
5		X	X	X	X	X
6		X	X	X	X	X
7		X	X	X	X	X
8		X	X	X	X	X
9		X	X	X	X	X
10	X		X	X	X	X

10. Assessmet Map

Assessment	CPMK 1	CPMK 2	CPMK 3	CPMK 4	CPMK 5	CPMK 6
Quiz/Pretest	X	X	X			
Practicum Activity	X	X	X			
Report				X	X	X
Summative Test				X	X	X

11. Assessment Method

Pertemuan	Quiz/Pretest	Practicum Activity	Report	Summative Test
1	X	X	X	
2		X	X	
3	X	X	X	
4		X	X	
5	X	X	X	
6		X	X	
7	X	X	X	
8		X	X	
9	X	X	X	
10		X	X	X