

Module Name	Geomorphological Survey and Mapping (Practicum)
Code, if applicable	GEL 0207
Semester(s) in which the module	Fourth (4 th) Semester
Person responsible for the module	M. Ngainul Malawani, S.Si, M.Sc.
Lecturer	Dr. Guruh Samodra, M.Sc. M. Ngainul Malawani, S.Si, M.Sc.
Language	Bahasa Indonesia
Relation to curriculum	Elective
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>). Lecture: 1400 minutes
Workload	Lecturer, 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%
Recommended prerequisites	-
Module objectives/intended learning aoutcomes	Students are able to explain : 1. Symbology in Geomorphological map 2. Identifying landform unit in general scale/ land system (1:250.000) 3. Identifying landform unit in semi-detailed scale/ land facet (1:50.000) 4. Identifying landform unit in land element (1:250.000) 5. Survey Management for Geomorphological Mapping 6. Automated landform delineation based on topographical position index 7. Lithostratigraphy and Dip Strike Mapping (3 point method) 8. Dip slope mapping 9. Field work : Detailed geomorphological and terrain mapping
Content	1. Symbology in Geomorphological map 2. Identifying landform unit in general scale/ land system (1:250.000) 3. Identifying landform unit in semi-detailed scale/ land facet (1:50.000) 4. Identifying landform unit in land element (1:250.000) 5. Survey Management for Geomorphological Mapping 6. Automated landform delineation based on topographical position index 7. Lithostratigraphy and Dip Strike Mapping (3 point method) 8. Dip slope mapping 9. Field work : Detailed geomorphological and terrain mapping
Study and examination requirements and forms of examination	Pretest (10%), Individual Report (30%), Practicum Classes (20%), Summative Test/Responsive (40%)

Media employed	<ul style="list-style-type: none"> - ELISA website - Internet - Computers - Interactive video - LCD projector
Reading list	<p>Zuidam, R.A.van. and Zuidam-Cancelado, 1979. Terrain Analysis and Classification Using Aerial Photographs. ITC. Enchede. The Netherlans</p> <p>Vertspen, H.Th. and Zuidam R.A. Van, 1975. ITC Texbook of Photo Interpretation. Vol.7, ITC, Enschede, The Netherlands.</p> <p>Verstappen, H.Th. 1985. Remote Sensing in Geomorphology. Elsevier. Amsterdam. The Netherlands.</p> <p>Salome, A.I., Van Dozer, H.J., and Rieff, Ph.L. (1982), A Comparison of Gromorphological Mapping Systems. ITC Jurnal 1982-3 Special Issue Honouring Herman Th. Verstappen. Enschede, The Netherland</p> <p>Leuder, D.R. 1959. Aerial Photographic Interpretation. McGrawHill. New York</p> <p>Cooke, R.U. and Doornkamp, J.C. 1994. Geomorphology in Environmetal Management. Claredon Press. Oxford, London.</p> <p>Aronoff, S. 1989. A Geographic Information System: Management Perspective. WOL Publ. Ontario</p> <p>THE NATIONAL COMMITTEE ON SOIL AND TERRAIN. 2009. Australian soil and land survey handbooks. Australia: CSIRO PUBLISHING.</p>