Module Name	Geomorphological Survey and Mapping
Code, if applicable	GEL 2105
Semester(s) in which the module	Fourth (4th) Semester
Person responsible for the module	Prof. Dr. Suratman, M.Sc.
Lecturer	Prof. Dr. Suratman, M.Sc. Dr. Djati Mardiatno, M.Si. Dr. Guruh Samodra, M.Sc.
Language	Bahasa Indonesia
Relation to curriculum	Elective
Type of teaching	STAR *(Student Teacher Aesthetic Role-Sharing)* is an optimal combination between SCL *(Student Centered Learning)* and TCL *(Teacher Centered Learning).* 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	2
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. Understanding of geomorphology 2. Main aspects of geomorphology 3. Geomorphological Survey and Mapping 4. Stages of Geomorphological Survey and Mapping 5. Purposes of Landform Classification 6. Collection, Analysis, and Data Source of Geomorphological Mapping 7. Survey approach and application of various geomorphological mapping systems 8. Type and range of scales of geomorphological map 9. Geomorphological mapping techniques 10. Geological and geomorphological structures 11. Interpretation of geomorphological imagery 12. The concept of land systems and morphological maps 13. Applied Geomorphological Survey
Content	1. Understanding of geomorphology 2. Main aspects of geomorphology 3. Survey and Geomorphological Mapping 4. Stages of Survey and Geomorphological Mapping 5. Purposes of Landform Classification 6. Collection, Analysis, and Data Source of Geomorphological Mapping 7. Survey approach and application of various geomorphological mapping systems 8. Type and range of scales of geomorphological map 9. Geomorphological mapping techniques 10. Geological and geomorphological structures

	11. Interpretation of geomorphological imagery 12. The concept of land systems and morphological maps 13. Applied Geomorphological Survey
Study and examination requirements and forms of examination	Individual Assignment (20%), Quiz (10%), Student Participation/Presentation (10%), Summative Test (Mid-term (30%) and Final Exam (30%). Examination is formed in written test.
Media employed	- ELISA website - Internet - Computers - Interactive video - LCD projector
Reading list	Zuidam, R.A.van. and Zuidam-Cancelado, 1979. Terrain Analysis and Classification Using Aerial Photographs. ITC. Enchede. The Netherlans Vertsppen, H.Th. and Zuidam R.A. Van, 1975. ITC Texbook of Photo Interpretation. Vol.7, ITC, Enschede, The Netherlands. Verstappen, H.Th. 1985. Remote Sensing in Geomorphology. Elsevier. Amsterdam. The Netherlands. 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 Leuder, D.R. 1959. Aerial Photographic Interpretation. Mc-GrawHill. New York Cooke, R.U. and Doornkamp, J.C. 1994. Geomorphology in Environmetal Management. Claredon Press. Oxford, London. Aronoff, S. 1989. A Geographic Information System: Management Perspective. WOL Publ. Ontario