

MODULE HANDBOOK

Module Name	Techniques and Analysis of Geographical Data
Module level, if applicable	
Code, if applicable	GEL 3004
Subtitle, if applicable	
Courses, if applicable	
Semester(s) in which the module	Seventh (7 th) & Eighth (8 th) Semester
Person responsible for the module	
Lecturer	Dr. Muhammad Pramono Hadi, M.Sc Dr. Sri Rum Giyarsih, M.Si Djaka Marwasta, S.Si., M.Si Dr. Eko Haryono, M.Si Dr. Muh. Aris Marfai, M.Sc Dr. Evita Hani Pangaribowo, SE, MDEC Abdur Rofi, S.Si., M.Si
Language	Bahasa Indonesia
Relation to curriculum	Techniques and Analysis of Geographical Data is an advanced course, which is given in semester 7 or 8 with a block system. This course is compulsory for students of Environmental Geography Program, Faculty of Geography, Gadjah Mada University with the weight of 4 credits. Before taking this course, students are required to take a basic course in the previous semester
Type of teaching, contact hours	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: 2800 minutes Mid Semester Examination: 100 minutes Final Semester Examination: 100 minutes
Workload	Lecturer, including homework and discussion = 2800 minutes Mid Semester Examination: 100 minutes Final Semester Examination: 100 minutes Total workload = 3000 minutes
Credit points	4
Requirements according to the examination regulations	Must attend lecture for more than 70%
Recommended prerequisites	-
Module objectives/intended learning aoutcomes	After following the lecture Geographic Data Analysis Technique, students are able to: <ul style="list-style-type: none"> a. Explain the scope of course Geography Data Analysis Technique based on human and environmental objects, and based on spatial, temporal, and territorial / regional complex perspectives. b. Analyze non-physical geographic data, such as social data, culture, economy and population. c. Analyze physical geographical data, which is usually a measurement of the results of the physical geographic phenomena.

	<p>d. Analyze geographic data in spatial, temporal and territorial / regional complex perspectives.</p> <p>e. Analyze data of interaction result between human component and environment.</p> <p>f. Present the data so it becomes good information that can help conclude a geography phenomenon to solve the problem</p>
Content	<ol style="list-style-type: none"> 1. Introduction (Scope Of Study And Formulation Of Research Problems) 2. Formulation of Research Variables 3. Preparation of Physical and Non-Physical Data Measuring Instruments, And Scale Determination, 4. Measurement And Calibration 5. Data Processing With Statistics 6. Preparing and Testing the Questionnaire 7. Interview Techniques 8. Interpretation of Printout Statistical Analysis 9. Analysis and Presentation of Spatial Data
Study and examination requirements and forms of examination	<p>Quiz / Individual Assignment (15 %), group assignment (15 %), participation & discussion (10 %), group persertation (20%), mid-semester examination (20 %) and final examination (20 %).</p>
Media employed	<ul style="list-style-type: none"> - ELISA website - Internet - Computers - Interactive video - LCD projector
Reading list	<p><i>Anonim, 1995, Visi Pertanian Abad 21, Badan Penelitian dan Pengembangan Pertanian, Jakarta,</i></p> <p><i>Badan Standar Nasional Indonesia, 2002, Penyusunan neraca sumber daya -Bagian 4: Sumber daya mineral spasial,</i></p> <p><i>Guilford, J. P. (1956). Fundamental Statistics in Psychology and Education. New York: Mc Graw-Hill Book Co. Inc.</i></p> <p><i>Hammond, C.W.,1979. Elements of Human Geography. London: George Allen & Unwin Ltd.</i></p> <p><i>Hendayana, R., 2003. Aplikasi Metode Location Quotient (Lq) Dalam Penentuan Komoditas</i></p>

	<p>Unggulan Nasional. Informatika Pertanian. Edisi Desember.</p> <p>Ilbery, B.W., 1985. <i>Agricultural Geography. A Social and Economic Analysis</i>. New York: Oxford University Press.</p> <p>Morgan, W.B. and Munton, R.J., 1971. <i>The Field of Geography</i>. Agricultural Geography. London: Methuen & Co. Ltd.</p> <p>Nazir, M. (2003). <i>Metode Penelitian</i>. Jakarta: Ghalia Indonesia.</p> <p>Sudjana. (2002). <i>Metoda Statistika</i>. Bandung: Tarsito.</p> <p>Sugiyono. (2002). <i>Metoda Penelitian Administrasi</i>. Bandung. Alfabeta.</p> <p>Sugiyono. (2007). <i>Metoda Penelitian Administrasi dilengkapi dengan Metode R & D</i>, Alfabeta, Bandung.</p> <p>Zulkarnain, D., 1993. Perencanaan dan Analisa Proyek. Lembaga Penerbit Fakultas Ekonomi, Universitas Indonesia. Jakarta.</p>
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