

MODULE HANDBOOK

Module Name	Fieldwork III : Analysis of Regional Resources and Environment
Module level, if applicable	
Code, if applicable	GEL 4007
Subtitle, if applicable	
Courses, if applicable	
Semester(s) in which the module	Seventh (7 th) & Eight (8 th) Semester
Person responsible for the module	Dr.rer.nat. Djati Mardiatno Dr. Emilya Nurjani Dr. Dyah Rahmawati Hizbaron Dr. Tjahyo Nugroho Adji, S.Si M.Sc.Tech Dr. M. Pramono Hadi, M.Sc Dr. Rika Harini, M.P Dr. Sri Rahayu Budiani, M.Si Dr Aris Marfa'i
Lecturer	Dr.rer.nat. Djati Mardiatno Dr. Emilya Nurjani Dr. Dyah Rahmawati Hizbaron Dr. Tjahyo Nugroho Adji, S.Si M.Sc.Tech Dr. M. Pramono Hadi, M.Sc Dr. Rika Harini, M.P Dr. Sri Rahayu Budiani, M.Si Dr Aris Marfa'i
Language	Bahasa Indonesia
Relation to curriculum	Fieldwork III 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 2 credits.
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: 1400 minutes Feld Activity : 7 days Mid Semester Examination: 100 minutes Final Semester Examination: 120 minutes
Workload	Lecturer, including homework and discussion = 14 meetings x 100 minutes each Mid Semester Examination: 100 minutes Final Semester Examination: 120 minutes Field Activity : 7 days
Credit points	2
Requirements according to the examination regulations	Must attend lecture for more than 70%

Recommended prerequisites	-
Module objectives/intended learning outcomes	After following the lecture, students are able to: - Identify physical and Human resources-related issues by applying geographical and environmental methods and techniques - Analyze physical and human resources-related problems by applying the methods of spatial, ecological, and regional complex analysis - Design and conduct research in physical geography, human geography, and environmental science or related areas using geospatial technologies - Acquire, analyze, and interpret geographic as well as regional and environmental resources data - Show awareness of environmental and social problems and behave according to moral and ethical values as well as local content in the community context and in the work place - Develop lifelong learning skills and improve knowledge formally or informally at the global level - Work professionally both individually and in a team
Content	- Proposal Submission - Location Survey - Hydrology (Class) - Disaster Management (Class) - Type of Social Research (Class) - Poverty (Class) - Field Activity - Comprehensive Report
Study and examination requirements and forms of examination	Field activity (25%), Comprehensive Report (30%), Quiz & Assignment (20%), Examination (25%)
Media employed	- ELISA website - Internet - Computers - Interactive video - LCD projector
Reading list	Arnell, N. 2014. <i>Hydrology and Global Environmental Change</i>. London: Routledge, Taylor & Francis Group. Arsyad S. (2006). <i>Konservasi Tanah dan Air</i>. Bogor: IPB Press Ascobat Gani. 1984. "Indikator Kualitas Manusia dan Penduduk. <i>Prisma</i>, No. 9., hal. 23-32. Bakir dan Manning. 1983. <i>Partisipasi angkatan kerja, kesempatan kerja, dan penganggur di Indonesia</i>. Yogyakarta: Pusat Penelitian Kependudukan, Universitas Gadjah Mada. Berry, Brian J.L. 1973. <i>The Human Consequences of Urbanization, Divergent Path in the Urban</i>

	<i>Experience of the Twentieth Century</i>. New York: St. Martin's Press. Bilsborrow, Richard E; A.S. Oberai and Guy Standing. 1984. <i>Migration Surveys in Low Income countries: Guidelines for Survey and Questionnaire Design</i>. London: Croom Helm Clark, G., Feldman, M. P., and Gertler M. S., 2000. The Oxford Handbook of Economic geography, Oxford University Press Clayton, Eric. 1983. <i>Agriculture, Poverty and Freedom in Developing Countries</i>. The Macmillan Press : London Davie, T. 2008. <i>Fundamentals of Hydrology</i>. Neew York: Routledge, Taylor & Francis Group. Demeny,P. and McNicoll, G. (2003). <i>Encyclopedia of Population</i>. New York: Macmillan Dingman, S.L. 2015. <i>Physical Hydrology</i>. Illinois: Waveland Press, Inc. Foureberg, E.H., Murphy, A.B., De Blij, H.J. 2009. <i>Human Geography People, Place and Culture</i>. United States of America : John Wiley&Sons, Inc Friedmann, J. (1996). Modular cities: beyond the rural-urban divide. <i>Environment and Urbanization Vol 8: 129 , 1-4</i>. Gregory, K.J. and Lewin, J. 2014. <i>The Basics of Geomorphology: Key Concepts</i>. Los Angeles: SAGE Publications Ltd. Han, D. 2010. <i>Concise Hydrology</i>. Bristol, UK: Ventus Publishing ApS. Hendriks, M.R. 2010. <i>Introduction to Physical Hydrology</i>. New York: Oxford University Press. Hingaray, B.; Picouet, C. and Musy, A. 2015. <i>Hydrology, A Science for Engineers</i>. Boca Raton: CRC Press. Hudson, N., 1995. <i>Soil Conservation</i>. Iowa State University. Karamouz, M.; Nazif, S. and Falahi, M. 2013. <i>Hydrology and Hydroclimatology: Principles and Apllications</i>. Boca Raton: CRC Press. Kovalevsky, V.S.; Kruseman, G.P.; and Rushton, K.R. 2004. <i>Groundwater Studies: an International Guide for Hydrogeological Investigation</i>. Saint-Denis: UNESCO. Kresic, N. 2009. <i>Groundwater Resources: Sustainability, Management and Restoration</i>. New York: McGraw-Hill. Mantra, I. B. 2003. <i>Demografi Umum</i>. Yogyakarta: Pustaka Pelajar. Morgan, RPC., 1995. <i>Soil Erosion and Conservation, 2nd Ed</i>. Longman. England. Murdock, S.H. and Swanson, D. (2008). <i>Applied Demography in the 21th Century</i>. Springer
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	Musy, A. and Higy, C. 2011. <i>Hydrology, A Science of Nature</i>. Boca Raton: CRC Press. Ojha, C.S.P.; Berndtsson, R. and Bhunya, P. 2008. <i>Engineering Hydrology</i>. New York: Oxford University Press. Sitorus, S.R.P. 1998. <i>Evaluasi Sumberdaya Lahan</i>. Bandung: Tarsito. Sitorus, S.R.P. 2003. <i>Pengembangan Sumberdaya Lahan Berkelanjutan</i>. Jurusan Tanah, Fakultas Pertanian Institut Pertanian Bogor. Bogor. Soemarno. 2007. <i>Konsepsi Ekonomi Sumberdaya Lahan</i>. Makalah Bahan Kajian Ekonomi Sumberdaya Lahan, PPSUB. Soepraptohardjo, M. 1961. <i>Sistem Klasifikasi Tanah di Balai Penyelidikan Tanah</i>. KNIT I, Bogor. Su Ritohardoyo, 2000, <i>Hand Out Studi Permukiman (Bagian 1) Pengertian, Klasifikasi, Perumahan dan Pola Permukiman</i>, Fakultas Geografi, Universitas Gadjah Mada, Yogyakarta. Sujarto, D. 1982. <i>Nilai Dan Harga Tanah dalam Pengembangan Wilayah</i>. Bandung: Institut Teknologi Bandung. Sukendra Martha, 2007, <i>Keterlibatan Ilmu Geografi dalam Kajian Komprehensif Pemukiman dan Perumahan Rakyat berbasis Informasi Geospasial Kebencanaan</i>, Makalah disampaikan pada Seminar Pembangunan Wilayah Berbasis Lingkungan di Indonesia, tanggal 27 Oktober 2007 di Balai Senat UGM, Yogyakarta. Sys, C., V.Ranst and J.Debaveye. 1991. <i>Land Evaluation Part II: Methods in Land Evaluation</i>, General Administration for Development Cooperation, Brussels. Tarbut, E.J; Lutgens, F.K. and Tasa, D. 2014. <i>Earth: an Introduction to Physical Geology</i>. Boston: Pearson. Tukiran. 2010. <i>Kependudukan</i>. Jakarta: Universitas Terbuka. Van Reeuwijk, L.P. 1983. <i>Introduction to Physico-Chemical Aspects</i>. Lecture Note, International Institute for Aerial Survey and Earth Sciences, ITC, Enschede the Netherlands. Van Wambeke, A. and T. Forbes. 1986. <i>Guidelines for Using Soil Taxonomy, the Names of Soil Map Units</i>. SMSS. Tech. Monogr. No. 10. SCS, USDA, New York, Cornell Univ. Dept. Agric. Vernor C. Finch, 1957, <i>Element of Geography</i>, New York: McGraw Hill Book Company Verstappen, H. Th., 1983, <i>Applied Geomorphology: Geomorphological Surveys for Environmental</i>
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	<i>Development</i>, Elsevier, Amsterdam - Oxford - New York Verstappen, H. Th., 2000, <i>The Geomorphology of Indonesia</i>, ITC - The Netherland Wahyuningrum,N, C. Nugroho, Wardojo, Beny H, Endang S, Sudimin, Sudirman. 2003. Klasifikasi Kemampuan Dan Kesesuaian Lahan .INFO DAS Surakarta No. 15 Th. 2003 Widiatmika, S.Hardjowigeno. 2007. Evaluasi Kesesuaian Lahan & Perencanaan Tata Guna Lahan, Gadjah Mada Uiversity Press, Jogjakarta Wood, A., and Roberts, S., 2011. <i>Economic Geography: Places, Network, and Flows</i>, Routledge.
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