

Module Handbook of Management of Natural Resources and The Environment

Module designation	Management of natural resources and the environment course is an elective subject in the Geography Masters Study Program. This course explains the concepts of natural resources and the environment, the distribution of natural resources, classifying natural resources, compiling the economic balance of natural resources and understanding the basic concepts of conservation to preserve natural resources, the role of resources in economic development, economic theory for resource management nature and environment (allocation, distribution, and economic welfare), accounting for natural resources for sustainable development, the economics of pollution, economic models of renewable natural resources (fisheries, forestry, water, land), non-market valuations, and policies in natural resource management and environment.					
Semester(s) in which the module is taught	Even/ Second (2 nd) Semester					
Person responsible for the module	Dr. Rika Harini, S.Si., MP. Dr. Langgeng Wahyu Santosa, S.Si., M.Si.					
Language	Bahasa Indonesia					
Relation to curriculum	Elective					
Teaching methods	SCL (Student Centered Learning) : Case-based learning, team-based project.					
Workload (incl. contact hours, self-study hours)	CLO 1	Offline class (classical, Discussion, Quiz) Offline (Platform Lecture, Q&A, Discussion) Offline (Platform Lecture, Q&A, Discussion, Assignment 1)	4 meetings 8 x 50 minutes of classroom lectures and discussions 2 x 60 minutes of self-paced tasks			
	CLO 2	Offline (Platform Lecture, Q&A, Discussion, Assignment 2) Offline (Pulpit Lecture, Q&A, Discussion, Quiz) Offline (Platform Lectures, Questions and Answers, Discussions, Assignments)	4 meetings 8 x 50 minutes of classroom lectures and discussions 3 x 60 minutes of self-paced tasks			
	CLO 3	Offline (Pulpit Lecture, Q&A, Discussion, Quiz) Offline (Platform Lectures, Questions and Answers, Discussions, Assignments)	4 meetings 8 x 50 minutes of classroom lectures and discussions 3 x 60 minutes of self-paced tasks			
Credit points	Assessment Techniques	Percentage of Assessment (%)	Criteria/ Indicators	CLO (%)		
				1	2	3
	Participatory Activities*)	20%	Contribution of class discussion activities in each subject matter of the lecture		20%	

	Project Results/ Case Study Results/ PBL Results*)	30%	Complete case study reports are available			30%
	Cognitive					
	Assignment	20%	The results of the task are available and complete	10%	10%	
	Mid-term	15%	Students answer the questions correctly	20%	10%	
	Final Exam	15%	Students answer the questions correctly			
	Total	100%		30%	40%	30%
	*) can be obtained from Mid-term or Final exams which are the results of participatory activities or the results of projects/case studies. By IKU 7, the total percentage of participatory activities and project results/case studies/PBL at least 70%.					
Required and recommended prerequisites for joining the module	Taken after taking compulsory courses					
Module objectives/intended learning outcomes	PLO A2	Understand and comprehend the methods and techniques of geographical analysis for managing human resources, watersheds, coasts, seas, disasters, and environmental and socio-economic issues in regional development.				
	PLO B1	Mastering the application of geography to manage the environment and human resources in rural, urban, watershed, coastal and marine areas through spatial, ecological and regional complex approaches.				
	PLO D1	Abide and apply the norms, values, morals, ethics and professional responsibilities as a geographer.				
	CLO 1	<p>Explains the concept of environmentally sustainable development, the role of natural resources in development, the definition and classification of natural resources.</p> <p>Explaining the notion of the environment and its component relationships, the scope of Law no. 32 of 2009 and RPLH;</p> <p>Understand and explain the notion of human resources, and be able to analyze the management and management of human resources</p> <p>Interpret, identify and analyze Ecoregion units and their characteristics [PLO A2]</p>				

	<p>CLO 2</p>	<p>Understand and explain the concept of ecoregion preparation methods in environmental protection</p> <p>Explaining the concept of regional autonomy and its problems, applying the Ecoregion principle in environmental development and regional autonomy, formulating ecoregion-based environmental management strategies and natural resource issues;</p> <p>Explain the basis and direction of the NSAD drafting policy, technically and substantially understand the NSAD drafting</p> <p>Understand the perspective, temporal and spatial dimensions of human resources;[PLO B1]</p>
	<p>CLO 3</p>	<p>Perform preparation or analysis of NSASD in an area and formulate a comprehensive strategy for managing natural resources and the environment;</p> <p>Understanding and explaining the basis and policy directions for preparing the Human Resources Balance Sheet (NSM), technically understanding and substantially compiling the NSM</p> <p>Understand, calculate and analyze the Human Development Index; the concept of MDGs to SDGs; Social Capital ; Human Resource Economics[PLO D1]</p>
<p>Content</p>	<p>CLO 1</p>	<ol style="list-style-type: none"> 1. Sustainable development with an environment and natural resources perspective: <ul style="list-style-type: none"> • Introduction: Environmentally Friendly Sustainable Development • Natural Resources as Basic Capital for Development • Definition and Classification of Natural Resources 2. Environment and its components: <ul style="list-style-type: none"> • The environment and its components • environmental protection and management in the context of Law no. 32 of 2009 (RPLH). 3. Resource dimension: <ul style="list-style-type: none"> • Dimensions of resource analysis ecoregion 4. Ecoregion <ul style="list-style-type: none"> • Units and their characteristics
	<p>CLO 2</p>	<ol style="list-style-type: none"> 1. ecoregion <ul style="list-style-type: none"> • Ecoregion as an analytical framework in RPLH 2. Ecoregion vs Regional Autonomy <ul style="list-style-type: none"> • Regional autonomy: between expectations and reality • Strategy for Management of Natural Resources and the Environment 3. Natural Resource Balance <ul style="list-style-type: none"> • Natural Resources Balance Policy • The method of preparing the Natural Resources Balance • Case studies on the preparation of natural resource balances and strategies for managing natural resources and the environment 4. Human Resources Management <ul style="list-style-type: none"> • The concept and definition of human resources • Human Resources Management
	<p>CLO 3</p>	<ol style="list-style-type: none"> 1. NSASD <ul style="list-style-type: none"> • NSASD compilation and analysis in a region • Comprehensive natural resource and environmental management strategy 2. Human Resources Balance Sheet

		<ul style="list-style-type: none"> • Dimensions of natural resource analysis • Dimensions of human resource analysis • Study of human resources and natural resources <p>3. Human Resource Development Index, MDGs and SDGs</p> <ul style="list-style-type: none"> • Human development index concept • Development Index Calculation • Human Development Components • The concept of MDGs and SDGs • MDGs goals • Case study
Examination forms	Mid-term and Final Exam	
Study and Examination Requirements	Student participation 25%, Project result 45%, Assignment 10%, Summative Test (Mid-term and Final Exam) 30%	
Reading list	<p>Main:</p> <ol style="list-style-type: none"> 1. Abdul-Gaffar-Karim, Amirudin, Mada-Sukmajati, dan Nur-Azizah, 2003. Kompleksitas Persoalan Otonomi Daerah di Indonesia. Yogyakarta: Pustaka Pelajar 2. Ad Hoc Committee in Geography, 1965. The Science of Geography. Academy of Science, Washington 3. Arief, A., 2001, Hutan dan Kehutanan, Penerbit Kanisius, Yogyakarta 4. Bintarto, R. dan Hadisumarno, S., 1987. Metode Analisa Geografi. LP3ES – IKAPI. Jakarta 5. Blasco, F., 1987, Outline of Ecology, Botany and Forestry, Wet Coastal Ecosystem, Elsevier, Amsterdam. 6. Bruijnzeel, L.A., 1982, Hydrological and Biogeochemical Aspect of Man-made Forest in South Central Java, Vrije Universiteit de Amsterdam 7. Cahya-Murni H.N., 1999. Prospek Profesi Geografi Menyongsong Otonomi Daerah dalam Pengelolaan Sumberdaya Alam Pesisir dan Laut. Direktorat Jenderal Pembangunan Daerah. Makalah Seminar: Dies Natalis Fakultas Geografi, UGM, Yogyakarta 8. Dietz, Tom, 1998, Pengakuan Hak Atas Sumberdaya Alam, Yogyakarta: Pustaka Pelajar 9. Fathoni, Abdurrahmat. 2006. Manajemen Sumber Daya Manusia. Rieka Cipta: Bandung 10. Fandeli, Chafid, 2003, Perhutanan Kota, Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta 11. Frick dan Mulyani, 2006, Arsitektur Ekologis, Penerbit Kanisius, Yogyakarta 12. Gomes, Faustino Cardoso. 2003. Manajemen Sumber Daya Manusia. Andi: Yogyakarta 13. Haftah, 1992, Upaya Peningkatan Peran Serta Masyarakat dalam Pengelolaan Lingkungan, Makalah Seminar Nasional, Senat Mahasiswa Geografi UGM, Yogyakarta 30-31 Juli 1992 14. Handoko, T. Hani. 1994. Manajemen Personalialia Dan Sumber Daya Manusia. BPFE Yogyakarta: Yogyakarta 15. Haryadi, 1999, Pengelolaan Sumberdaya Alam Dalam Rangka Otonomi Daerah: Tinjauan dari Perspektif Lingkungan, Makalah dalam Seminar Nasional Pengelolaan Sumberdaya Alam Dalam Rangka Otonomi Daerah, DIES ke-50 UGM, Yogyakarta 16. Haryana, 1999. Pengelolaan Sumberdaya Alam dalam Otonomi Daerah. Makalah Seminar: Dies Natalis ke-50 UGM, Yogyakarta 17. Hasibuan, Malayu SP. 2000. Manajemen Sumber Daya Manusia. Bumi Aksara: Jakarta 18. Hugget, 1995. Geoecology, John Willey and Sons, New York 19. Instruksi Menteri Dalam Negeri Nomor 29 tahun 1995 tentang Neraca Sumberdaya Alam Spasial Daerah, Jakarta 20. Jadjit Damopolii, 1989, Pengenalan dan Penggunaan AMDAL Bagi Proyek Pembangunan, Materi Kursus AMDAL, Kantor Menteri Negara KLH dan PPLH UGM, Yogyakarta 	

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24. Koesnadi Hardjosoemantri, 1996, Hukum Tata Lingkungan, Yogyakarta: Gajah Mada University Press
25. Lobeck, A.K., 1939. Fundamental of Geomorphology. John Wiley and Sons. New York
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Additional: