



## **MODULE HANDBOOK**

### **Evaluation and Conservation of Land Resources**

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Undergraduate Study Program for Geography  
Faculty of Mathematics and Natural Sciences  
Universitas Indonesia

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## Evaluation and Conservation of Land Resources

Module designation	Evaluation and Conservation of Land Resources
Semester(s) in which the module is taught	Sixth (6th) Semester
Person responsible for the module	Dra. Astrid Damayanti, M.S.
Lecturer	1. Dra. Astrid Damayanti, M.S. 2. Dr. Tito Latif Indra, M.Si.
Language	Bahasa Indonesia
Relation to curriculum	Elective
Teaching methods	Student-centered Learning and combination with Cooperative Learning
Workload (incl. contact hours, self-study hours)	1. Lectures: 100 minutes per week per semester 2. Assignment: 120 minutes per week per semester 3. Independent study: 120 minutes per week per semester 4. Minutes x weeks x semester: $340 \times 14 \times 1 = 4760$ minutes per semester 5. Midterm Examination: 100 minutes per semester 6. Final Examination: 100 minutes per semester 7. Total workload per semester: 4950 minutes / 82 hours 40 minutes
Credit points	2 (Two)
Required and recommended pre-requisites for joining the module	1. Principles and Perspective in Physical Geography 2. System and Process of Physical Geography 3. Principles and Perspective in Human Geography
Module objectives/intended learning outcomes	<p>The discussion of this course will include land characteristics; type of land mass movement; Erosion factors and events; erosion characteristics; soil evaluation system; conception of land suitability; land evaluation principle; Evaluation method; Evaluation of physical and social aspects; utilization of maps and spatial analysis; Principles and objectives of conservation; conservation method; geographical factors of land conservation; Land conservation management.</p> <p>The purpose of the course is to provide the ability of analysis and evaluation both spatially and temporally land resources in relation to the acimony of the crowded land and its conservation efforts, especially lands in Indonesia and the current issue.</p>
Content	1. The basic concept of geology-geomorphology 2. Landform and its processes due to tectonism, volcanism, fluvial (groundwater and surface water), marine (sea waves), glacial (glaciers), eolin, solution (karst), organisms and space objects 3. Phenomenon and application of geomorphological studies 4. The climate and hydrological system and its relevance in geographic studies
Examination forms	-
Study and examination requirements	1. Individual Score (30%) 2. Group and Presentation Score (30%) 3. Mid Examination (20%) 4. Final Examination (20%)

<p>Reading list</p>	<p>Lobeck, A. K., 1939, <i>Geomorphology : An Introduction to The Study of Landscapes</i>, McGraw-Hill Book Co., New York-London.</p> <p>Worcester, Philip G., 1964. <i>A Textbook of Geomorphology</i>, D. Van Nostrand Co. Inc., Princeton-New Jersey-Toronto-London-New York</p> <p>Thornbury, William D., 1969. <i>Principles of geomorphology</i>, John Wiley-New York.</p> <p>Hugget, Richard J.,2007. <i>Fundamentals of Geomorphology</i>. New York : Taylor and Francis. Part 1-3.</p> <p>Sparks, B.W, 1961. <i>Geomorphology</i>, Longmans, Green and Co. Toronto. Chapter 1,2,5,6,7 dan 10.</p> <p>Hugget, Richard J.,2007. <i>Fundamentals of Geomorphology</i>. New York : Taylor and Francis. Part 1-3.</p> <p>Hess, Darrel &amp; Dennis G. Tassa (2016): <i>Physical Geography: A Landscape Appreciate</i>. Pearson New International.</p> <p>Christopherson, Robert W. (2008) <i>Geosystem, Introduction to Physical Geography</i>. 8rd Edition. Prentice Hall Publication, New York.</p> <p>Holden, Joseph (eds) (2008): <i>Introduction to Physical Geography and Environment</i>. Pearson Education. London.</p> <p>Petersen, J. Et al. (2011) <i>Fundamental of Physical Geography</i>. Brook/Cole Cengage Learning. New York, 499 p.</p> <p>Barry, R.G. &amp; R.J. Chorley 1998) <i>Atmosphere, Weather &amp; Climate</i>, Routledge, London</p> <p>Davie, T. (2008): <i>Fundamental of Hydrology</i>. Routledge. 2nd Edition.</p> <p>André Musy &amp; Christophe Higy (2011) <i>Hydrology, A Science of Nature</i>. Science Publisher.</p> <p>Tambahan:</p> <p>Ludiro, Djamang dkk, 1985, <i>Geomorfologi Terapan</i>, Jurusan Geografi FMIPA Universitas Indonesia, Jakarta.</p> <p>Hefferan, K., John O'Brien. (2010). <i>Earth Material</i>. Oxford : Wiley-Blackwell.</p> <p>Younger, Paul L. (2006) <i>Groundwater in the Environment</i>. Wiley, USA</p> <p>Jurnal dan referensi lain yang terkait.</p>
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