



MODULE HANDBOOK

Cartography Lab

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

Cartography Lab

Module designation	Cartography Lab
Semester(s) in which the module is taught	First (1st) Semester
Person responsible for the module	Adi Wibowo, Ph.D.
Lecturer	<ol style="list-style-type: none"> 1. Adi Wibowo, Ph.D. 2. Dra. Tuty Handayani, M.S. 3. Iqbal Putut Ash Shidiq, Ph.D 4. Riza Putera Syamsuddin, M.Si. 5.
Language	Bahasa Indonesia
Relation to curriculum	Compulsory
Teaching methods	Student-centered Learning and combination with Cooperative Learning
Workload (incl. contact hours, self-study hours)	<ol style="list-style-type: none"> 1. Lectures: 50 minutes per week per semester 2. Assignment: 60 minutes per week per semester 3. Independent study: 60 minutes per week per semester 4. Minutes x weeks x semester: $170 \times 14 \times 1 = 2380$ minutes per semester 5. Midterm Examination: 100 minutes per semester 6. Final Examination: 100 minutes per semester 7. Total workload per semester: 2580 minutes / 43 hours
Credit points	1 (One)
Required and recommended pre-requisites for joining the module	<ol style="list-style-type: none"> 1. Thinking Geographically
Module objectives/intended learning outcomes	After following this course students are able to build maps based on available information
Content	<ol style="list-style-type: none"> 1. Introduction to Map Making Manual Equipment 2. The Concept of Contour and Cross-sectional Lines 3. The Concept of Scale and Grid, Symbols, and Geographical Name on the Map 4. Projection and Transformation Concepts 5. Introduction to Digital Map Making Equipment, Input Data Attributes, and Map Layouts
Examination forms	-
Study and examination requirements	<ol style="list-style-type: none"> 1. Individual Score (70%) 2. Midterm Examination (15%) 3. Final Examination (15%)

Reading list	<p>Raisz, E. 1948. General Cartography. McGraw-Hill Book Company, INC. New York.</p> <p>Kraak & Ormeling. 2007. Kartografi : Visualisasi Data Geospasial (edisi kedua). Gajah Mada University Press. Yogyakarta.</p> <p>Sandy, I.M. 1996. Esensi Kartografi. Jurusan Geografi FMIPA UI. Jakarta.</p> <p>Sandy, I.M. 1988. Peta Topografi dan Penggunaannya. Jurusan Geografi FMIPA UI. Jakarta.</p> <p>Rais, J & et al. 2008. Toponimi Indonesia. PT Pradnya Paramita. Jakarta.</p> <p>Soendjojo,H & Akhmad Riqqi. 2012. Kartografi. Penerbit ITB. Bandung.</p> <p>Subagio. 2003. Pengetahuan Peta. Penerbit ITB. Bandung.</p> <p>Omerling, F. 2013. Kartografi Tematik: Aspek Sosial & Ekonomi. Penerbit Ombak. Yogyakarta.</p> <p>M.J Kraak & F. Ormeling. Cartography: Visualization of Geospatial Data, Fourth Edition. 2020. CRC Press</p> <p>B. Cynthia. Designing Better Maps: A Guide for GIS Users. 2015. ESRI Press</p>
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