



## **MODULE HANDBOOK**

### **Hydrogeography**

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Faculty of Mathematics and Natural Sciences  
Universitas Indonesia

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## Hydrogeography

Module designation	Hydrogeography
Semester(s) in which the module is taught	Third (3rd) Semester
Person responsible for the module	Dr. rer.nat. Eko Kusratmoko, M.S.
Lecturer	1. Dr. rer.nat. Eko Kusratmoko, M.S.
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"> <li>1. Lectures: 100 minutes per week per semester</li> <li>2. Assignment: 120 minutes per week per semester</li> <li>3. Independent study: 120 minutes per week per semester</li> <li>4. Minutes x weeks x semester: <math>340 \times 14 \times 1 = 4760</math> minutes per semester</li> <li>5. Midterm Examination: 100 minutes per semester</li> <li>6. Final Examination: 100 minutes per semester</li> <li>7. Total workload per semester: 4950 minutes / 82 hours 40 minutes</li> </ol>
Credit points	2 (Two)
Required and recommended pre-requisites for joining the module	<ol style="list-style-type: none"> <li>1. System and Process of Physical Geography</li> <li>2. Physical Geography Lab 2</li> <li>3. Principles and Perspective in Human Geography</li> </ol>
Module objectives/intended learning outcomes	Students are able to conduct spatial analysis and temporal potential water resources and the problems in terms of quantity and quality in global and local linkup (scale of river flow).
Content	<ol style="list-style-type: none"> <li>1. The position of hydrogeography and its relevance in geography</li> <li>2. Spatial variations in hydrological components in the global context</li> <li>3. Spatial variation of hydrological components in the scope of the watershed</li> <li>4. Water resources potential (groundwater and surface water)</li> <li>5. Water resources Problems</li> </ol>
Examination forms	-
Study and examination requirements	<ol style="list-style-type: none"> <li>1. Essay (20%)</li> <li>2. Group and Presentation Score (10%)</li> <li>3. Individual Score (15%)</li> <li>4. Quiz (10%)</li> <li>5. Midterm Examination (20%)</li> <li>6. Final Examination (25%)</li> </ol>

Reading list	<p>Kriz, Hubert (1981): Task of hydrogeography in utilization and protection of water resources</p> <p>Dingman, (2014): Physical Hydrology. Third edition. Holden, Joseph (eds) (2008): Introduction to Physical Geography and Environment. Pearson Education. London.</p> <p>Shelton, M. L. (2009): Hydroklimatology, Perspectives and Applications. Press.</p> <p>Newson, M (2008): Land, Water and Development. Edisi ke 3. Routledge</p> <p>Younger, Paul L. (2006) Groundwater in the Environment. Wiley, USA</p> <p>G.E. Pett &amp; L. D. L. Foster. Rivers and Landscape. 1985. Edward Arnold Publisher.</p> <p>G. Nagle. Rivers and Water Management. 2003. Hodder Education</p>
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