



## **MODULE HANDBOOK**

### **Statistical Geography Lab**

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Module designation	Statistical Geography Lab
Semester(s) in which the module is taught	Third (3rd) Semester
Person responsible for the module	Dr. Hayuning Anggrahita S.Si., M.S.M.
Lecturer	<ol style="list-style-type: none"> <li>1. Dr. Hayuning Anggrahita S.Si., M.S.M.</li> <li>2. Faris Zulkarnain, S.Si., M.T.</li> <li>3. Satria Indratmoko, S.Si., M.Sc</li> <li>4.</li> </ol>
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: 50 minutes per week per semester</li> <li>2. Assignment: 60 minutes per week per semester</li> <li>3. Independent study: 60 minutes per week per semester</li> <li>4. Minutes x weeks x semester: <math>170 \times 14 \times 1 = 2380</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: 2580 minutes / 43 hours</li> </ol>
Credit points	1 (One)
Required and recommended pre-requisites for joining the module	<ol style="list-style-type: none"> <li>1. Introduction to Geographic Method</li> </ol>
Module objectives/intended learning outcomes	After completing this course, students are able to practice statistical material for geographic data using a computer program statistics, so that it can interpret the output obtained.
Content	<ol style="list-style-type: none"> <li>1. Case Study of Geography Statistics Method</li> <li>2. Quantitative Data Processing Using a Combination of Statistical Software and Mapping</li> <li>3. Preparation and Data Processing for Spatial Analysis</li> <li>4. Application of Appropriate Geographical Statistical Methods</li> <li>5. Practice of Hypothesis Testing</li> <li>6. Practice of Analysis of Linkages and Causality</li> <li>7. Spatial Interpretation of Output</li> </ol>
Examination forms	-
Study and examination requirements	<ol style="list-style-type: none"> <li>1. Group &amp; Presentation Score (20%)</li> <li>2. Individual Score (20%)</li> <li>3. Midterm Examination (25%)</li> <li>4. Final Examination (35%)</li> </ol>

Reading list	<p>Rogerson, P. A. (2010). <i>Statistical Methods for Geography</i>. London: Sage Publications.</p> <p>Ericson R &amp; J. Harlin, (1994): <i>Geographic Measurement and Quantitative Analysis</i>. Macmillan College publishing Company, Inc. USA</p> <p>Hasan, M. I. (2003): <i>Pokok-Pokok Materi Statistik 1 dan 2</i>. Bumi Aksara, Jakarta.</p> <p>Sugiyono. 2015. <i>Statistik untuk Penelitian</i>. Penerbit Alfabeta. Bandung.</p> <p>Suwarno. 1995. <i>Hidrologi - Aplikasi Metode Statistik untuk Analisis Data</i>. Penerbit Nova. Bandung.</p> <p>R. Peter A. <i>Statistical Methods for Geography</i>. 2020. London: SAGE</p> <p>F. Wang. <i>Quantitative methods and applications in GIS</i>. 2006. Taylor &amp; Francis</p> <p>Fotheringham, A.S., C. Brunsdon, &amp; M. Charlton, <i>Quantitative Geography. Perspectives on Spatial Data Analysis</i>. 2000. Sage Publications.</p>
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