<table>
<tr><td>Module designation</td><td colspan="3">IS412 Data Visualization</td></tr>
<tr><td>Semester(s) in which the module is taught</td><td colspan="3">7</td></tr>
<tr><td>Person responsible for the module</td><td colspan="3">Ririn Ikana Desanti
Raymond Sunardi Oetama</td></tr>
<tr><td>Language</td><td colspan="3">Indonesian</td></tr>
<tr><td>Relation to curriculum</td><td colspan="3">1. Elective 1</td></tr>
<tr><td>Teaching methods</td><td colspan="3">- Lecture
- Problem Based
- Demonstration
- Hands-On
- Interactive Multimedia</td></tr>
<tr><td>Workload (incl. contact hours, self-study hours)</td><td colspan="3">Total workload: 136.08 hours
Theory
- 11.67 hours of synchronous lecture.
- 28.02 hours of Self-study and assignments
- 5.67 hours related to exam and self study
Lab
- 23.35 hours of lab module (and in-class assistance)
- 16.34 hours of self-lab and assignments
- 5.67 hours related to exam and self study</td></tr>
<tr><td>Credit points</td><td colspan="3">2 SKS (3.36 ECTS)</td></tr>
<tr><td>Required and recommended prerequisites for joining the module</td><td colspan="3">-</td></tr>
<tr><td rowspan="2">Module objectives/intended learning outcomes</td><td rowspan="2">Course Learning Outcome</td><td colspan="2">Related ELOs</td></tr>
<tr><td>ELO</td><td>Performance Indicator</td></tr>
<tr><td></td><td>Students can create and integrate data visualizations using a data analytics platform.</td><td>I</td><td>Ability to develop and integrate software and hardware as scalable distributed systems that incorporate various device types for the purpose of solving engineering problems.</td></tr>
<tr><td>Content</td><td colspan="3">This course provides material on structured type data processing techniques and data visualization techniques using Tableau</td></tr>
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	software. It becomes information that is used as information reference by the company or organization in the decision-making process. Specifically, this course contains these topics: 1. Introduction to Data Visualization and Tableau 2. Connecting Data 3. Visual Analytics 4. Maps 5. Advanced Topics 6. Tableau Certification Test
Examination forms	Portfolio
Study and examination requirements	The total average score for the assignment (10%), quiz (30%), midterm (20%), and final (40%) exams must be more than or equal to 55 (C).
Reading list	Main: 1. Miller, James D., Big Data Visualization, 2017, UK: Packt Publishing Ltd. 2. Tableau Video Online learning as creator link https://www.tableau.com/learn/training/20202 3. CyberTrend Tableau Preparation Test Supporting: 1. Jurnal Infosys Guidelaine (ejournals.umn.ac.id) 2. Baldwin, David, Mastering Tableau, 2016, UK: Packt Publishing Ltd.