

| <b>Business Intelligence and Analytics</b> |   |  |                                      |                                       |                                |
|--|---|--|--------------------------------------|---------------------------------------|--------------------------------|
| <b>Course Code</b><br>CIS62034             | <b>Student Workload</b><br>90 hours   | <b>Credits</b><br>(according to ECTS)<br>4.5 | <b>Semester</b><br>3                 | <b>Frequency</b><br>Each odd-semester | <b>Duration</b><br>16 meetings |
| <b>1</b>                                   | <b>Types of Courses</b><br><i>Elective</i>  | <b>Contact Hours</b><br>63 hours             | <b>Independent Study</b><br>27 hours | <b>Class Size</b><br>40 students      |                                |
| <b>2</b>                                   | <b>Prerequisites for Participation</b>  |  |                                      |                                       |                                |
| <b>3</b>                                   | <b>Learning Outcomes</b><br>IS-ILO-1<br>Graduates are expected to be able to design, build, operate, and evaluate information systems in organizations to align with organizational needs and to produce technological solutions for organizations.   |  |                                      |                                       |                                |
| <b>4</b>                                   | <b>Subject Aims</b> <ul style="list-style-type: none"> <li>• Students are able to explain and identify the needs of business intelligence and data analytics and are able to formulate them with various data sources owned by the organization</li> <li>• Students are able to apply their knowledge to produce solutions for business intelligence and data analytics that can describe the condition of the organization with the integration of various data sources it has.</li> <li>• Students are able to apply and demonstrate understanding of the material through customization on business intelligence and analytics tools that can meet the needs of the organization in the form of dashboards and data visualizations.</li> <li>• Students are able to demonstrate the ability to design and meet business intelligence and analytics solutions through development and operations information systems platforms to perform descriptive and predictive analysis based on data sources from the organization.</li> </ul> |  |                                      |                                       |                                |
| <b>5</b>                                   | <b>Teaching Methods</b><br>Lectures, case study, class discussion, presentation   |  |                                      |                                       |                                |
| <b>6</b>                                   | <b>Assessment Methods</b><br>Assignment, mid-term examination, end-term examination, project evaluation, practical-skill assessment   |  |                                      |                                       |                                |
| <b>7</b>                                   | <b>This Module is Used in the Following Degree Programs as well</b>   |  |                                      |                                       |                                |
| <b>8</b>                                   | <b>Responsibility for Module</b>  |  |                                      |                                       |                                |
| <b>9</b>                                   | <b>Other Information</b> <ol style="list-style-type: none"> <li>1. King, David. 2011. Business Intelligence: A Managerial Approach 2nd Edition. Prentice Hall.</li> <li>2. Sherman, Rick. 2014. Business Intelligence Guidebook: From Data Integration to Analytics 1st. Morgan Kaufmann Publishers Inc.</li> </ol>   |  |                                      |                                       |                                |