MASTER SYLLABUS

CITA 325 – BUSINESS INTELLIGENCE SUITE

Created by: Tatsuhito Koya
Updated by: Tatsuhito Koya
A. **TITLE:** Business Intelligence Suite

B. **COURSE NUMBER:** CITA 325

C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

- # Credit Hours: 3
- # Lecture Hours: 3 per week
- # Lab Hours: per week
- Other: per week

Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** No

E. **GER CATEGORY:** None

F. **SEMESTER(S) OFFERED:** Fall

G. **COURSE DESCRIPTION:** This course exposes the students to a set of Microsoft Business Intelligence tools: Excel, SQL Server, Reporting Services, and Power BI. These technologies provide skills on organization, strategy, performance, and competitiveness. Students examine how these tools are used in various fields.

H. **PRE-REQUISITES/CO-REQUISITES:**
   a. Pre-requisite(s): CITA 110, CITA 215, and MATH 141
   b. Co-requisite(s): None
   c. Pre- or co-requisite(s): None

I. **STUDENT LEARNING OUTCOMES:**

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>PSLO</th>
<th>ISLO</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Summarize the role business intelligence and Microsoft Business Intelligence Suite</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>b. Use Excel as a business intelligence analysis tool</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>c. Examine the roles and functionalities of SQL Server Database Service and SQL Server Analysis Service as a business intelligence analysis tool</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>d. Use Reporting Services as a business intelligence analysis tool</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>e. Use PowerBI as a business intelligence analysis tool</td>
<td></td>
<td>5</td>
</tr>
</tbody>
</table>

J. **APPLIED LEARNING COMPONENT:** Yes______ No_______

L. **REFERENCES:** SUNY Canton Library online resources

M. **EQUIPMENT:** Computer lab classroom

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**
   - Exams
   - Quizzes
   - Hands-on
   - Assignments

P. **DETAILED COURSE OUTLINE:**
   I. Business Intelligence
      A. Role of Business Intelligence
      B. Microsoft Business Intelligence Suite
   II. Excel Fundamentals Review
      A. Formulas and Functions
      B. Tables
      C. Pivot Tables
   III. Excel DAX
      A. DAX Fundamentals
      B. UsingDAX
         A. SQL Server Fundamentals
         B. Role and Functionalities of SQL Server Database Service
         C. Role and Functionalities of SQL Server Analysis Service
   IV. Reporting Services
      A. Reporting Services Fundamentals
      B. Creating Reports
   V. PowerBI Fundamentals
      A. Using PowerBI

Q. **LABORATORY OUTLINE:** N/A