STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK

MASTER SYLLABUS

CITA 325 – BUSINESS INTELLIGENCE SUITE

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SCHOOL OF ENGINEERING
DECISION SYSTEMS
FALL 2018

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:**

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

J.   **APPLIED LEARNING COMPONENT:**   Yes_____   No_____

K. **TEXTS:** Russo, M., & Ferrari, A. (2015). The definitive guide to DAX: business intelligence with Microsoft Excel, SQL Server analysis services and Power BI. Redmond, Washington: Microsoft Press.

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