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Bossier Parish Community College
Master Syllabus

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Course Prefix and Number: CTEC 275   **Credit Hours:** 3-3-0

Course Title: Big Data

Course Prerequisite: CTEC 172

Textbook(s): No textbook required

Course Description: This course will teach students how to organize unstructured data using big data solutions such as Hadoop and the Elasticsearch frameworks. It will introduce students to big data concepts and terminology and incorporate a heavy presentation component based on student research and proposals.

Learning Outcomes:
At the end of this course, the student will:
      A. describe the challenges involved with managing big data,
      B. describe the service types and deployment types of big data solutions,
      C. apply different vitalization techniques to provide for presentation of data,
      D. integrate Elasticsearch into Hadoop to effectively visualize and analyze data; and
      E. identify and propose best strategies and practices for managing big data solutions.

To achieve the learning outcomes, the student will or will be able to:
(The letter designations at the end of each statement refer to the learning outcome(s).)
      1. Identify terminology used in big data solutions, (A,B)
      2. research different big data solutions for businesses, (B,E)
      3. design multiple big data solutions using tools such as Elasticsearch and Hadoop, (D)
      4. present multiple solutions and strategies of big data solutions, (E)
      5. design virtualization and cloud strategies for log aggregation solutions, (C,D)
      6. and implement big data solution strategy in cloud-based or on-premise servers. (C,D)

Course Requirements:
- To pass the course, student must achieve a course average of 70% or above.
- Students must have access to a computer (not mobile device), Microsoft Office, and the Internet to complete the assignments. Computer, software, and the Internet are available to students on campus during scheduled computer lab times and in the Learning Commons located in the BPCC Library.
- Students are required to use BPCC's LMS and are encouraged to use the BPCC Library to research topics and employment opportunities.

Course Grading Scale:
- A = 90 - 100
- B = 80 - 89
- C = 70 - 79
- D = 60 - 69
- F = 0 – 59

Attendance Policy:
Each student is expected to attend class regularly; excessive unexcused absences constitute grounds for suspension. Refer to the student handbook for Attendance Policy.

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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Equity/Compliance Coordinator
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