## The Fundamentals of Business Big Data Abbreviated course syllabus

Course Number:	AX701A		
Course Name:	The Fundamentals of Business Big Data		
Instructors:	Yang Hualing		
Students:	Accounting, Audit, Financial Management, Business Administration, and		
	Human Resource Management.		
Required Text:	2022 edition, 2023 edition		
Course	Business Big Data Fundamentals is a cutting-edge course in business majors.		
Description:	It comprises three sections with nine teaching units, including basic		
	knowledge (Chapters 1-3), intermediate knowledge (Chapters 4-8), and		
	extended knowledge (Chapter 9). In the intermediate knowledge section		
	(Chapters 4-8), each teaching unit is presented in the form of project tasks		
	published by the instructor on VDC.PUB. Students are required to complete		
the design of visualization works based on the built-in visual des			
	documents within each teaching unit, and then prepare the teaching samples		
	accordingly. The Business Big Data Fundamentals course utilizes Power BI		
	as the fundamental visualization design tool, applying business expertise		
	through nine practical application scenarios in the visualization design		
	curriculum. It bridges the gap between technical courses and professional		
	courses, and achieves a thorough understanding of design concepts through		
	the aid of teaching samples, thus also fulfilling the assessment requirements		
	for technical courses.		

Topic Outline:		Hours/Minutes
Chapter 1	1.The Concept of Big Data	
Introduction	2. Characteristics of Big Data	2
	3.Types of Big Data	Z
	4.Business Big Data	
Chapter 2	Big Data Thinking	2
	1. Thinking Patterns	
	2.Fundamentals of Data Thinking	
	3. Principles of Data Thinking	
	4. Patterns of Data Thinking	
Chapter 3	Business Applications of Big Data	2
	1.Applications of Big Data in the Government Sector	
	2. Applications of Big Data in the Commercial Sector	
	3.Applications of Big Data in Non-commercial Sectors	
Chapter 4	Commercial Big Data Collection	4
	1.Principles of Data Collection	
	2. Sources of Commercial Data	
	3.Methods of Commercial Big Data Collection	
	4. Tools for Commercial Big Data Collection	

Chapter5	Processing of Business Big Data	4
	1.Inspection of Business Big Data	
	2. Cleaning of Business Big Data	
	3. Transformation of Business Big Data	
	4. Integration of Business Big Data	
Chaptre6	Business Big Data Analysis	4
	1.Understanding of Business and Data	
	2. Analysis Methods for Business Big Data	
	3. Analysis Process for Business Big Data	
	4. Common Pitfalls in Data Analysis	
Chapter7	Visualization of Business Big Data	4
	1. Overview of Data Visualization	
	2. Case Studies of Data Visualization Charts	
	3. Tools for Data Visualization	
	4.Basic Process of Data Visualization	
Chapter8	Comprehensive Experiments on Business Big Data	8
	1. Basic Operations of Power BI	
	2. Visual Design of Balance Sheet	
	3. Visual Design of Comprehensive Performance Evaluation	
	4. Visual Design of Macroeconomic Analysis	
Chapter9	Data Literacy	2
	1.Data Security	
	2.Data Governance	
	3.Data Ethics	
	tal Sessions (Coverage Hours)	32

Summary of The Fundamentals of Business Big Data		Hours/Minutes
a.	Introduction	2
b.	Big Data Thinking	2
c.	Business Applications of Big Data	2
d.	Commercial Big Data Collection	4
e.	Processing of Business Big Data	4
f.	Business Big Data Analysis	4
g.	Visualization of Business Big Data	4
h.	Comprehensive Experiments on Business Big Data	8
i.	Data Literacy	2
	Total Estimated CPC Coverage Hours	32