



Business Intelligence Concepts, Tools, and Applications

by University of Colorado System



Jahangir Karimi



Welcome to Business Intelligence Concepts, Tools, and Applications, the fourth course in the Data Warehousing for Business Intelligence Specialization.

▼ More

This course includes 5 modules. In the first module, we will focus on how computerized decision support systems (DSS) can support decision making. You will learn decision making styles and the common approaches and strategies of decision makers. You will have access to some Ready Made DSS for various types of decisions. In the second module, you will learn business intelligence (BI) concepts, its architectural components, and the seven BI styles. We will focus on the building blocks of business reports and different types of OLAP and their applications. In the third module, you will learn various data visualization techniques and the best practices for designing data visualizations. You will learn the guidelines for designing dashboards and the common pitfalls for dashboard design. In module 4, we will focus on how BI is used for business performance management, how organizations need to define key performance indicators for developing balanced scorecards, and how various forms of visual and business analysis are supported in practice. Finally in the last module, we will focus on the critical success factors for BI maturity and implementing successful BI strategy.



This course will have a great balance in concepts, tools, and applications. You'll have the opportunity to work with large data sets in a data warehouse environment to create visualizations and dashboards. You will use MicroStrategy, a leading BI tool, capabilities to create those visualizations and dashboards. You'll learn strategies and skills for most effective data visualizations and business performance management to advance your career as Business Intelligence analyst and developer.

Jahangir Karimi, Professor of Information Systems
Decision Making and Decision Support Systems

University of Colorado Denver, Business School, business.ucdenver.edu

Videos




Done

Readings

3h 10m left

Practice Exercises

Done

| REQUIRED |  | GRADE | DUE |
|---|---|--------|--------|
|  Peer-graded Assignment Assignment for Module 1: Offline Dashboards with Advanced Visualizations 2h | | 94.50% | May 28 |
|  Review Your Peers Assignment for Module 1: Offline Dashboards with Advanced Visualizations | | 94.50% | May 31 |

✓

WEEK 2

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Business Intelligence Concepts and Platform Capabilities

Videos

Done

Readings




50 min left

Practice Exercises

Done

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| REQUIRED | GRADE | DUE |
|--|---------|-------|
|  Peer-graded Assignment Assignment for Module 2: World Wide Carbon Emissions Scenario 2h | 100.00% | Jun 4 |
|  Review Your Peers Assignment for Module 2: World Wide Carbon Emissions Scenario | 100.00% | Jun 7 |
|  Quiz Modules 1 and 2 Graded Quiz #1 30 min | 86.66% | Jun 4 |

✓

WEEK 3

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Data Visualization and Dashboard Design

Videos **30 min left**


Readings **1h 40m left**

Practice Exercises **10 min left**

REQUIRED**GRADE****DUE****Peer-graded Assignment**

100.00%

Jun 11

Assignment for Module 3: Design Dashboard for a Financial Service Company
2h

**Review Your Peers**

100.00%

Jun 14

Assignment for Module 3: Design Dashboard for a Financial Service Company

**WEEK 4****Business Performance Management Systems**

Videos **47 min left**

Readings **1h 50m left**

Practice Exercises **10 min left**

REQUIRED**GRADE****DUE****Peer-graded Assignment**

92.14%

Jun 18

Assignment for Module 4: Advanced Enterprise Data Discovery
2h

**Review Your Peers**

92.14%

Jun 21




Assignment for Module 4: Advanced Enterprise Data Discovery

**WEEK 5**



BI Maturity, Strategy, and Summative Project

Videos **15 min left**Readings **40 min left**

| REQUIRED | GRADE | DUE |
|--|---------|--------|
|  Peer-graded Assignment Summative Project: BPM For Blazin' Burger Fast Food Restaurant 2h | 100.00% | Jun 25 |
|  Review Your Peers Summative Project: BPM For Blazin' Burger Fast Food Restaurant | 100.00% | Jun 28 |
|  Quiz Modules 3, 4, and 5 Graded Quiz #2 30 min | 93.33% | Jun 25 |

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Yes

