

FB6942: BUSINESS INSIGHTS FROM DATA

New Syllabus Proposal

Effective Term

Semester A 2025/26

Part I Course Overview

Course Title

Business Insights from Data

Subject Code

FB - College of Business (FB)

Course Number

6942

Academic Unit

College of Business (CB)

College/School

College of Business (CB)

Course Duration

One Semester

Credit Units

2

Level

P5, P6 - Postgraduate Degree

Medium of Instruction

English

Medium of Assessment

English

Prerequisites

NIL

Precursors

NIL

Equivalent Courses

NIL

Exclusive Courses

NIL

Part II Course Details

Abstract

This course aims to provide seasoned executives and professionals with a foundation in statistical analysis and data-driven decision-making. Participants will develop the skills to effectively analyze and interpret data, evaluate business performance, and apply statistical techniques to develop strategies and make informed decisions that drive organizational success in a dynamic and competitive business environment.

Course Intended Learning Outcomes (CILOs)

CILOs		Weighting (if app.)	DEC-A1	DEC-A2	DEC-A3
1	Analyze and evaluate data using statistical techniques to derive meaningful insights and support evidence-based decision-making.		x	x	x
2	Compare and interpret statistical models and methods to assess their applicability in solving business problems and optimizing performance.		x	x	x
3	Develop strategies and formulate plans based on data analytics to enhance operational efficiency, identify growth opportunities, and drive innovation and competitive advantage.		x	x	x

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

Learning and Teaching Activities (LTAs)

LTAs		Brief Description	CILO No.	Hours/week (if applicable)
1	Preparatory readings	Students will have some readings in advance to familiarize themselves with the course material and prepare for upcoming lectures or discussions.	1, 2, 3	
2	Online live sessions	Students participate in online live sessions led by experts or guest speakers, where they discuss and explore specific topics in-depth, sharing knowledge and engaging in critical analysis.	1, 2, 3	

3	Assignments	Students complete tasks or projects for applying their knowledge and skills to demonstrate understanding and achieve specific learning objectives.	1, 2, 3	
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Assessment Tasks / Activities (ATs)

	ATs	CILO No.	Weighting (%)	Remarks ("- " for nil entry)	Allow Use of GenAI?
1	Group and/or Individual Assignment	1, 2, 3	100	-	Yes

Continuous Assessment (%)

100

Assessment Rubrics (AR)**Assessment Task**

1. Assignments

Criterion

Assess students' ability to demonstrate a sound knowledge of the subject matter and its future development, and how that knowledge can be applied to solve real-world problems encountered effectively and creatively.

Excellent

(A+, A, A-)

The arguments show a higher degree of originality and internalization to form a well-defined perspective on the subject matter. Strong evidence of reflection on own position based on a comprehensive understanding of principles/ conceptual framework and the contemporary context.

Good

(B+, B, B-)

The arguments demonstrate a good appreciation of the subject matter, principles/ conceptual framework and the contemporary context with indications of reflection on own position.

Some new insights and questions offered with clear evidence of learning from the course.

Fair

(C+, C, C-)

The arguments are highly relevant and accurate with fair appreciation of the subject matter, principles/conceptual framework and the contemporary context.

Marginal

(D)

The arguments are relevant and accurate but isolated, addressing the subject matter only in part and lacking both a strong grounding in principles/ conceptual framework and understanding of the contemporary context.

No originality, weak justification of conclusions and poorly structured.

Failure

(F)

Little evidence of familiarity with the subject matter;

Fail to submit the individual essay.

Assessment Task

2. Projects

Criterion

Assess students' ability to demonstrate a sound knowledge of the subject matter and its future development, and how that knowledge can be applied to solve real-world problems encountered effectively and creatively.

Excellent

(A+, A, A-)

The arguments show a higher degree of originality and internalization to form a well-defined perspective on the subject matter. Strong evidence of reflection on own position based on a comprehensive understanding of principles/ conceptual framework and the contemporary context.

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No originality, weak justification of conclusions and poorly structured.

Failure

(F)

Little evidence of familiarity with the subject matter;

Fail to submit the individual essay.

Assessment Task

3. Essays

Criterion

Assess students' ability to demonstrate a sound knowledge of the subject matter and its future development, and how that knowledge can be applied to solve real-world problems encountered effectively and creatively.

Excellent

(A+, A, A-)

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Part III Other Information

Keyword Syllabus

- Statistical models
- Data visualization
- Association analysis
- Data mining
- Social media analytics
- Marketing analytics
- Business forecasting
- Deep learning models
- Data-driven decision-making

Reading List

Compulsory Readings

Title	
1	Paczkowski, W. R. (2021) Business Analytics: Data Science for Business Problems. Springer e-Book.
2	Palacio, A. B. (2023) The Art of Data-Driven Business: Transform Your Organization into a Data-driven One with the Power of Python Machine Learning. Packt Publishing.
3	Eckert, H. W. (2022) Storytelling with data: gaining insights, developing strategy and taking corporate communications to a new level. Wiesbaden, Germany: Springer.