

School Course Code Units 1 unit

Aboitiz School of Innovation, Technology, and Entrepreneurship (ASITE)

GNAM GNW (MSc)

Course Title Data Strategy and Governance for Business Leaders

**Term** Elective

Email Address Consultation Hours

Faculty Name Legara, Erika Fille T.

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### Resource Speaker/s:

- Monterola, Christopher
- Saw, Cindy
- Sison, Kevin Anthony

#### A. Course Description

In today's digital age, the strategic management and governance of data are critical for aligning technical capabilities with business objectives. This course is designed to empower participants with the foundational understanding and practical insights needed to navigate the convergence of data, technology, and business. This course will unravel the core principles of data strategy and governance. It will provide a realistic framework for how they can be harnessed to drive informed decision-making and sustainable business growth. Through a blend of theoretical discussions, case study analyses, and interactive exercises, participants will develop a pragmatic understanding of how to devise data strategies and governance frameworks aligned with organizational goals and compliant with regulatory standards.

### **B. Pre-requisites**

Not applicable.

#### C. Course Learning Outcomes

- 1. Explain the fundamentals of Data Science and AI, and their role in enabling business innovation and growth. This includes understanding key concepts, technologies, and applications of Data Science and Al in a business context, and how they drive innovation and contribute to business growth.
- 2. Develop a comprehensive understanding of the principles of data strategy and governance, delving into their critical role in synchronizing technical capabilities with overarching business objectives. This

involves learning to align data strategy with business goals and understanding the importance of effective data governance in achieving these objectives.

3. Recognize and address the ethical challenges in AI, such as bias, fairness, transparency, and accountability, to ensure responsible AI implementation. This entails identifying potential ethical issues in AI systems, understanding their implications, and developing strategies to manage these challenges responsibly in a business setting.

## E. Learning Methodology

- Case Study Analysis
- Interactive Class Discussions
- Guest Lectures

## F. Grading Criteria

			Weight
Class participation (sync)	Active class participation	(Individual)	50%
Reflection Paper		(Individual)	20%
Presentation	All members must present	(Group)	30%
		TOTAL	100%

# G. Sessions

Session	Topic	Pre-session Activity	Faculty	Learning or Case Materials	Supplementary Readings
1 Jun 10 8:30AM- 10:00AM	Class management; Introduction to Data Science and Al	Peruse supplementary readings	Erika Fille T. Legara, Ph.D.		Analytics 3.0 By: Thomas H. Davenport
2 Jun 10 10:30AM– 12:00PM	Asking the Right Analytics Questions		Erika Fille T. Legara, Ph.D.		
3 Jun 10 1:30PM– 3:00PM	Maximizing ROI through AI		Christopher P. Monterola, Ph.D.		Artificial Intelligence for the Real- World By: Thomas H. Davenport and Rajeev Ronanki
4 Jun 11 8:30AM– 10:00AM	Introduction to Data Strategy	Peruse required reading	Erika Fille T. Legara, Ph.D.	What's Your Data Strategy? By: Leandro DalleMule and Thomas H. Davenport	Reshaping Business With Artificial Intelligence: Closing the Gap Between Ambition and Action By: Sam Ransbotham, David Kiron, Philipp Gerbert, Martin Reeves
5 Jun 11 10:30AM– 12:00PM	Data Strategy (cont'd)	Peruse supplementary readings	Erika Fille T. Legara, Ph.D.		
6 Jun 11 1:30PM– 3:00PM	Tooling-Up Enterprises (a case)	Read case	Erika Fille T. Legara, Ph.D.	Data Science at Target By: Srikant M. Datar and Caitlin N. Bowler	
7 Jun 12 8:30AM– 10:00AM	Data Governance Frameworks and Models		Kevin Anthony Sison, MSDS		

8 Jun 12 11:00AM– 12:30PM	Data Strategy and Governance in Insurance and Banking		Cindy Saw, MSDS		
9 Jun 12 1:30PM- 3:00PM	Responsible AI	Peruse supplementary readings	Erika Fille T. Legara, Ph.D.	13 Principles for Using Al Responsibly By: Brian Spisak, Louis B. Rosenberg, Max Beilby	Eliminating Algorithmic Bias Is Just the Beginning of Equitable AI By: Simon Friis and James Riley  When Algorithms Rule, Values Can Wither By: Dirk Lindebaum, Vern Glaser, Christine Moser, and Mehreen Ashraf
Jun 13 7:00AM- 4:00PM	Local Immersion Tour				
10 Jun 14 9:00AM- 12:30PM	Capstone Presentation & Wrap-up	Meet with Learning Team and prepare for the capstone presentation			