COURSE CODE: FDNBUSM

COURSE TITLE: Business Mathematics and Finance

COURSE DESCRIPTION:

This foundation course covers theories of investment mathematics and their application to banking and business transactions. It also introduces students to the rudiments of the mathematics of finance. The course also covers complex aspects of financial decisions such as medium to long term investments, capital budgeting, debt versus equity financing, cost of capital, and valuation. It will also provide the students with a review of the basic principles, techniques, and analytical tools needed in conducting financial analysis using commonly-used financial statements in evaluating and forecasting a business firm's financial performance (cash flows and ratio analysis). Risk and rates of return, including valuation of bonds and stocks will also be discussed. These concepts are applied to financial and non-financial enterprises.

DEPARTMENT: Decision Sciences and Innovation Department

TEXTBOOK:

• Financial Management Prinicipals & Appication 13th Edition Pearson (Titman, Keown & Martin) Brigham, E. (2017).

READING LIST:

• Business Finance (Philippine Edition). Valenzuela: Jo-Es Publishing House.

• Cordova, Wilson, et.al. Mathematics of Finance 3rd edition). Mobius Strip Corporation

• Asquith, P. (2016). Lessons in corporate finance: a case studies approach to financial tools, financial policies, and valuation. New Jersey: Wiley.

• Houston, J. F. (2017). Fundamentals of financial management. Boston: Cengage Learning. (Concise 9th Ed.).

• Ross, S. A. (2016). Fundamentals of Corporate finance. Dubuque: McGraw-Hill. (2nd Ed.).

• Slater J. & Witry Sharon (2019). Math for Business and Finance: An Algebraic Approach (2nd Ed.). McGraw Hill

• Titman, S., Keown, A.J., & Martin, J.D. (2018). Financial Management: Principles and Applications. (13th Ed.). Pearson

• Zutter, C. & Smart, S. (2019) Principles of Managerial Finance (15th Ed.) Pearson

• Presentacion, Gabriel and Ong, Anita, Fundamentals of Investment Mathematics. Island Publishing House. 2009.

• Biehler, Timothy J. The Mathematics of Money: Math for Business and Personal Finance Decisions. McGraw-Hill / Irwin, New York, 2008.

• Shao, S. P. and Shao, L. P. Mathematics for Management & Finance: with College Algebra & GMAT preparation (7th ed). South Western College Publishing, Ohio, 1995

REQUISITE EQUIPMENT/MATERIALS FOR THE COURSE:

• Scientific Calculator or MS Excel