

Course Outline

FN312 Investments

Semester 2/2024 (January 20- May 14, 2024)

Lecture Time: Tuesday, 13.00-16.00 hours

Lecture Venue: Room 206

Teaching Materials Platform:

1. Webex: <https://mahidol.webex.com/meet/sarayut.nah>
Meeting number: 582 257 434
2. Line Group: ID: FN312 Jan-May 2025



3. McGraw Connect: <https://connect.mheducation.com>
4. Mentimeter

Office Hours: By appointment

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Number of Credit: 3 Credits (3-0-6)

Prerequisite: (1) FN201 and (2) FN211

Course Description:

Valuation methods for fixed income instruments, equity instruments, options, and futures contracts; risk and return measurement of individual securities and portfolios, the determinants of risk and return

Course Objectives:

1. Be able to use Excel for Asset valuations such as Fixed Income (Bond), Equity (Stock), and Risk Return assessment
2. Mastering in risk and expected return relationship and be able to form a 2-asset portfolio, 3-asset portfolio, and n-assets portfolio
3. Be able to use R-studio or MATLAB for Risk and Return valuation/ Portfolio formation/Asset Pricing etc. (if applicable)
4. Understand Financial Derivative securities covering description and functions of Futures, Forward, Options, and SWAPs (introduction)

Expected Learning Outcomes

1. Morality and Ethics

Applicability	Expected Learning Outcomes	Evaluation Method
●	1. Possess honesty, sacrifice, self-social, and environmental responsibility.	Class participation Class discussion In class activities
N/A	2. Value "sufficiency" theory and adapt it in life path by adhering to adequacy, rationale, and immunity development.	
N/A	3. Value disciplines, respect, and comply with the rules and regulations of the institution and society at large.	
N/A	4. Acquire knowledge related to business morality and ethics, and be able to handle ethical dilemma with integrity.	

2. Knowledge

Applicability	Expected Learning Outcomes	Evaluation Method
N/A	1. Acquire knowledge on and understand the important concepts in business	

●	2. Acquire knowledge on and understand the important social and science concepts related to business management.	Class assignments Chapter Presentations
N/A	3. Acquire knowledge on and understand the important concepts related to business processes, planning, corporate structures, operations, control, performance evaluation and contingency plan to suit the circumstances.	
N/A	4. Acquire the knowledge on academic advancement and professional development in business management including the understanding of the situational adaptability and its impacts on business.	

3. Intellectual Development

Applicability	Expected Learning Outcomes	Evaluation Method
●	1. Be able to search and process information and utilize various concepts appropriately in a given circumstance in order to obtain relevant information to benefit in the rapidly changing business environment.	Class Assignments In-class Activities Class Assessments
N/A	2. Be able to think systematically, rationally and creatively and to integrate knowledge from other disciplines to solve the problems in business and other settings.	
N/A	3. Be able to collectively propose solutions to problems at hand and analyze the impacts of the proposed solutions and be able to choose the solution that is appropriate to a given situation to ensure business competitive advantages.	

4. Interpersonal Skills and Responsibilities

Applicability	Expected Learning Outcomes	Evaluation Method
N/A	1. Be able to work in team, possess interpersonal skills and leadership skills, and be professionally adaptive to a given situation.	
●	2. Be creative and constructively criticize to solve problem of the team.	In class activities Class Assignments Term Projects
N/A	3. Be responsible in lifelong learning to develop self and professional career.	

5. Quantitative Analysis, Communication and Information Technology

Applicability	Expected Learning Outcomes	Evaluation Method
●	1. Be able to apply mathematics, statistics, quantitative analysis in analyzing and making decisions in business and daily life.	Excel/R-Studio/Matlab portfolio quizzes and assignments
N/A	2. Be able to efficiently communicate in Thai and foreign languages that are relevant in doing Business.	
N/A	3. Be able to explain the issues and make the issues clear in verbal or writing, and be able to choose the appropriate pattern of communication for different groups of audience both in business context and in other contexts.	
N/A	4. Be able to utilize the information technologies or others to support the business operations.	

Remark: ● Primary expected outcome ○ Secondary expected

Main Text: Investments, 13th edition, Bodie, Kane, and Marcus, McGraw Hill

Recommended Texts & Materials

Basic Econometrics, 5th edition, Gujarati, McGrawHill

Suggested Readings:

Grading Criteria:

Percentage (out of 100%)	GRADE
0 – less than 50	F
50 – less than 55	D
55 – less than 60	D+
60 – less than 65	C
65 – less than 70	C+
70 – less than 80	B
80 – less than 90	B+
90 and above	A

Tentative Class Schedule: August 20th – November 26th, 2024

Date	Topic	Activities
Jan 21 st	Class Introduction: The Investment Environment (Chp 1) Asset Class and Financial Instrument (Chp 2)	Class Discussion Mentimeter (Participation) Problem set 1
Jan 28 th	Asset Class and Financial Instrument (Chp 2 (continued)) How Securities are Trade (Chp 3) Introduction to Excel and R	Mentimeter (Participation and Assessment) Problem set 2 and 3
Feb 4 th	Risk Return and the Historical Records (Chp 5)	Mentimeter (Participation and Assessment)

	Risk and Return calculation with Excel and R (Matlab (if possible))	Problem set 5
Feb 11th	Captial Allocation to Risky Assets (Chp 6) Excel, R, and Matlab	Mentimeter Problem set 6
Feb 18th	Chapter Presentation 1: 1. Chapter 4 2. Chapter 11 + 12	Chapter Presentation (10%) + Assessments
Feb 25th	Captial Allocation to Risky Assets (Chp 6) Excel, R, and Matlab (Continued) Efficient Diversification (Chp 7) Excel, R, and Matlab	Mentimeter Problem set 6 and 7
March 4th	Index Model (Chp 8) Excel, R, and Matlab	Mentimeter Problem set 8
March 18th March 25th	Captial Asset Pricing Model (Chp 9)	Mentimeter Problem set 9
April 8th	Captial Asset Pricing Model (Chp 9) Arbitrage Pricing Theory and the Multifactor Modles for Risk and Return (Chp 10)	Mentimeter Problem set 10
Apr 22nd	Chapter Presentation 2 1. Chapter 14 2. Chapter 17 3. Chapter 18	Chapter Presentation (10%) + Assessments

Apr 29th	MATLAB: Portfolio Selection Workshop 1	Mentimeter
May 6th	MATLAB: Portfolio Selection Workshop 2	Mentimeter
May 13th	Chapter Presentation 3 1. Chapter 26 2. Chapter 27 3. Chapter 28	Chapter Presentation (10%) + Assessment

Score Allocation:

Item	Percent
Chapter Presentation	10%
Participation	20%
Problem Sets	10%
Assessments	20%
Assignments	10%
Final Exam	30%
Total	100%

Note:

- 1. Each group will submit peer evaluation to determine weight for score earned of the group works.**
- 2. No make up assessment/participation/assignment except in case of sickness (hospitalized)**