

FACULTY OF BUSINESS MASTER OF SCIENCE IN FINANCE WITH DATA ANALYTICS

LEARNING MODULE OUTLINE

Academic Year	2023 / 2024	Semester	II		
Module Code	FIDA6123-121				
Learning Module	Investment Analysis and Portfolio Management				
Pre-requisite(s)	N/A				
Medium of Instruction	English				
Credits	3	Contact Hours	45hrs.		
Instructor	XIN XIANG Email xxiang@mpu.edu.m				
Office	Rm.M523, Meng Tak Bldg.	Office Phone	8599 3306		

MODULE DESCRIPTION

This learning module is an introduction to investment and portfolio management. It covers investment and portfolio management concepts and theories including risk and return, portfolio analysis, and pricing models.

MODULE INTENDED LEARNING OUTCOMES (ILOS)

On completion of this learning module, students will be able to:

M1.	Estimate the risk and return	
M2.	Explain the theories related to capital allocation	
M3.	Explain the theories related to diversification and portfolio	
M4.	Explain the pricing theories	
M5.	Explain the efficient market hypothesis	

These ILOs aims to enable students to attain the following Programme Intended Learning Outcomes (PILOs):

Knowledge and Understanding On completion of this programme, students will be able to:						
PILOs		M1	M2	М3	M4	M5
PI	Master critical knowledge of financial theories, financial models and data analytics in finance and apply it to a	٧	٧	٧	٧	٧

	wide range of complex financial issues.					
PI	Expand knowledge of finance and data analytics through critically evaluating current issues informed by leading edge research and practice in the industry.	٧	٧	٧	٧	٧
Oı	ills and Attributes a completion of this programme, udents will be able to:					
PI	Conduct applied research, particularly using data analytics, into financial issues through a rigorous and systematic approach.	٧	٧	٧	V	٧
PI	Communicate effectively, written and orally, to both professional and non-professional audiences on local and global financial issues.	٧	٧	٧	V	٧
PI	Demonstrate skills in time management, teamwork, leadership and independent study so that tasks can be planned and implemented at a professional level.					
PI	Identify and address ethical dilemmas and social responsibility issues to uphold high standards of integrity, professionalism and ethical behaviour.					

MODULE SCHEDULE, COVERAGE AND STUDY LOAD

Week	Content Coverage	Contact Hours
1	Ch. 5 Risk, Return, and the Historical Record	3 hrs.
2	Ch. 5 Risk, Return, and the Historical Record	3 hrs.
3	Ch. 5 Risk, Return, and the Historical Record	3 hrs.
4	Ch. 6 Efficient Diversification	3 hrs.
5	Ch. 6 Efficient Diversification	3 hrs.
6	Ch. 6 Efficient Diversification	3 hrs.

7	Midterm Exam	3 hrs.
8	Ch. 7 Capital Asset Pricing and Arbitrage Pricing Theory	3 hrs.
9	Ch. 7 Capital Asset Pricing and Arbitrage Pricing Theory	3 hrs.
10	Ch. 7 Capital Asset Pricing and Arbitrage Pricing Theory	3 hrs.
11	Ch. 8 The Efficient Market Hypothesis	3 hrs.
12	Ch. 9 Behavioral Finance	3 hrs.
13	Ch. 10-11 Bond pricing and portfolio management	3 hrs.
14	Ch. 10-11 Bond pricing and portfolio management	3 hrs.
15	Final Exam	3 hrs.
	Total	45 hrs.

TEACHING AND LEARNING ACTIVITIES

In this learning module, students will work towards attaining the ILOs through the following teaching and learning activities:

Teaching and Learning Activities	M1	M2	М3	M4	M5
 Interactive lectures Lectures: in-depth coverage of principles of accounting is presented with PowerPoint slides and other supplementary materials if necessary Q & As: time is allowed to raise questions from both sides (instructor and students) 	✓	√	√	√	√
 In-class Exercises and quizzes In-class exercises will be discussed at the end of each lecture to ensure student understanding of the issues. Quizzes: students will take some quizzes to motivate them to review what they have learned 	√	√	√	√	√
 Assignments Students are required to complete assigned questions and problems. No late submission will be accepted. 		√	√	√	√



ATTENDANCE

Attendance requirements are governed by the "Academic Regulations Governing Master's Degree Programmes of Macao Polytechnic University". Students who have less than the required attendance for the enrolled subject are not eligible to attend the final and re-sit examinations and will be given an "F" as their final grade.

ASSESSMENT

In this learning module, students are required to complete the following assessment activities:

Assessment Activities	Weighting (%)	ILOs to be Assessed
Q&A / Participation	5%	✓
Assignments	20%	✓
Mid-term test	25%	✓
Final Exam	50%	✓
Total:	100%	✓

The assessment will be conducted following the University's Assessment Strategy (see www.mpu.edu.mo/teaching_learning/en/assessment_strategy.php). Passing this learning module indicates that students will have attained the ILOs of this learning module and thus acquired its credits.

MARKING SCHEME

	Assessment Task	Criterion	Excellent (A, A-)	Very Good, Good (B+, B, B-)	Satisfactory (C+, C, C-)	Pass (D+, D)	Fail (F)
1.	Class Learning Activities (including participation, Q&A, quizzes)	Demonstrate the understanding of the subjects covered in classes and show active learning attitude	High	Significant	Moderate	Basic	Not even reaching marginal levels
2.	Assignments	Demonstrate the ability to answer questions on topics covered in the outline	High	Significant	Moderate	Basic	Not even reaching marginal levels
3.	Mid-term test and Final examination	Demonstrate the ability to identify and apply appropriate concepts, methods and techniques	High	Significant	Moderate	Basic	Not even reaching marginal levels



REQUIRED READINGS

Module textbook:

Z. Bodie, A. Kane, & A. Marcus (2022), Essentials of investments: 12th edition.

REFERENCES

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STUDENT FEEDBACK

At the end of every semester, students are invited to provide feedback on the learning module and the teaching arrangement through questionnaires. Your feedback is valuable for instructors to enhance the module and its delivery for future students. The instructor and programme coordinators will consider all feedback and respond with actions formally in the annual programme review.

ACADEMIC INTEGRITY

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FACULTY OF BUSINESS MASTER OF SCIENCE IN FINANCE WITH DATA ANALYTICS

LEARNING MODULE OUTLINE

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