

EXAMINATION SYLLABUS

Foundation exam sessions September 2026 and March 2027 Final exam sessions March 2027 and September 2027

Exam preparation based on © 2026 course material

- 1. Financial Accounting and Financial Statement Analysis
- 2. Corporate Finance
- 3. Equity Valuation and Analysis
- 4. Economics
- 5. Fixed Income Valuation and Analysis
- 6. Derivative Valuation and Analysis
- 7. Portfolio Management

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1. Glossary

The CIIA International Examinations comprise two levels: a Foundation level Examination and a Final level Examination.

The Foundation Examination will examine all topic areas marked with the indication Fo in the present Syllabus. It will contain multiple choice, calculation and essay type questions which assess the basic knowledge and analytical skills of candidates.

The Final Examination concerns all the subjects described in the current Syllabus, i.e. all topic areas marked with the indication Fi. Material that is examinable at the Foundation level can also be examined at the Final level. The Final Examination will examine across all topic areas and will contain full and mini- case study questions, together with in-depth essay or discursive questions together with some structured computational questions which assess the more advanced knowledge and synthetic analytical skills of candidates.

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2. Introduction: Quantitative Analysis and Statistics

Broad Learning Objectives

This pre-requisite topic will not be examined as such, but a sufficient understanding is necessary to read the manuals and other articles or finance books without being brought to a halt at the first formula. It is necessary to understand the various mathematical concepts, statistical concepts and methods and numerical procedures and to apply these to the different modules.

Algebra: Financial mathematics language; Greek letters; Basic terminology (constants, variables, coefficients); Algebraic operations, algebraic transformations; Equations (linear, inequalities, system of equations with one unknown, with two unknowns); Indexed notations, sums, products; Simple, compounded, continuous returns.

Functions: Graphs of a function (slope, x/y-axis, intercept); Constant, linear, inverse, quadratic, power, exponential, logarithmic functions.

Derivatives and Integrals: First, second, partial derivative; Concave, convex functions, inflection point; Integrals.

Statistics and probabilities: Graphics (pie chart, histogram, diagram; quantile, quartile, percentile, mean, mode, median; skewness); Covariance, correlation coefficient; Linear regressions (simple, multiple); Concept of probability; Simple, weighted, arithmetic, geometrical means; Dispersion measures (for example, variance, standard deviation and shortfall); Expected value; Binomial and normal distribution; Statistical tests.

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3. Financial Accounting and Financial Statement Analysis

Broad Learning Objectives

Principles and Standards

1

The basic principles and standards that underpin the preparation of financial statements should be understood, together with the various features of the income statements and balance sheets. The usage and analysis of financial statement related information receives a particular emphasis and candidates should develop strong skills in these dimensions. A wide range of analytic tools and applications should be understood, including income versus cash flow, various ratio analyses (such as EPS, profitability, leverage), time series analyses, common size statements and Dupont analysis and their application in practical settings well known and understood. Candidates should have a good understanding of the important topics of foreign currency translation and the consolidation of financial statements. The important valuation related topic of financial projections is also covered.

	<u>. </u>	Fo/Fi
1.1.2	Financial reporting issues	
Framev	work for the preparation and presentation of financial statements	Fo/Fi
1.2.1	Objective of financial statements	
1.2.2	Accounting conventions	
1.2.3	Fundamental definitions	
1.2.4	Criteria for accounting recognition	
Stateme	ent of cash flows	Fo/Fi
1.3.1	Rationale for the statement of cash flows	
1.3.2	Relation between income flows and cash flows	
Income	e Statement and Foreign Currency Transactions	
Revenu	ne recognition	Fo/Fi
2.1.1	Revenues from customers	
2.1.2	Criteria for expense recognition	
2.1.3	<u> </u>	
Foreign	a currency transactions	Fo/Fi
		
2.2.2		
2.2.3	Hyperinflationary economies	
	1.1.1 1.1.2 Framey 1.2.1 1.2.2 1.2.3 1.2.4 Stateme 1.3.1 1.3.2 Income Revenu 2.1.1 2.1.2 2.1.3 Foreign 2.2.1 2.2.2	Framework for the preparation and presentation of financial statements 1.2.1 Objective of financial statements 1.2.2 Accounting conventions 1.2.3 Fundamental definitions 1.2.4 Criteria for accounting recognition Statement of cash flows 1.3.1 Rationale for the statement of cash flows 1.3.2 Relation between income flows and cash flows Income Statement and Foreign Currency Transactions Revenue recognition 2.1.1 Revenues from customers 2.1.2 Criteria for expense recognition 2.1.3 Accounting for stock options and similar benefits Foreign currency transactions 2.2.1 Foreign currency transactions 2.2.2 The translation of financial statements into a foreign currency

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3 Balance Sheet

3.1	<u>Assets</u>		Fo/Fi
	3.1.1	Property, plant and equipment	
	3.1.2	Investment property	
	3.1.3	Intangible assets	
	3.1.4	Inventories	
	3.1.5	Accounts receivable	
	3.1.6	Cash and cash equivalents	
	3.1.7	Impairment of assets	
	3.1.8	Financial assets	
3.2	Liabilit	ie <u>s</u>	Fo/Fi
	3.2.1	Bonds and other financial liabilities	
	3.2.2	Compound financial instruments	
	3.2.3	Off balance sheet financing agreements	
	3.2.4	Leases	
	3.2.5	Borrowing costs	
	3.2.6	_	
	3.2.7	Income taxes	
3.3	Shareho	olders' Equity	Fo/Fi
	3.3.1	Issuance of capital stock	
	3.3.2	Acquisition and sale of treasury shares	
	3.3.3	Accounting for dividends	
	3.3.4	Other changes in retained earnings	
3.4	Provisio	ons	Fo/Fi
<u> </u>	3.4.1	Conditions for the recognition of provisions	10,11
	3.4.2	Contingent liabilities	
4	Consoli	idated Financial Statements	
1 1	3.4	1	г.
<u>4.1</u>	_	s and acquisitions	Fi
		Acquisitions	
	4.1.2	Mergers	
<u>4.2</u>		dated financial statements	Fi
	4.2.1	The scope of consolidation	
	4.2.2	The consolidation methods	
	4.2.3	The nature of the difference arising from consolidation	
	4.2.4	Uses of each method	
	4.2.5	The consolidation procedure	
	4.2.6	Analysis of the difference arising from initial consolidation	
	4.2.7	Valuing minority interests	
	4.2.8	The treatment of Goodwill	

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5	Introd	uction to Financial Analysis	Fo/Fi
6	Data A	nalysis	
<u>6.1</u>	Income 6.1.1 6.1.2	Relationship between income and cash flow from operations Income and cash flow at various stages of the life cycle	Fo/Fi
<u>6.2</u>	<u>Quality</u> 6.2.1 6.2.2	of earnings, earnings management Data issues when analysing financial statements Significance and implications of alternative accounting policies on the financial statements	Fo/Fi
6.3	Earning 6.3.1 6.3.2 6.3.3 6.3.4	Basic earnings per share Diluted earnings per share Using EPS to value firms Criticism of EPS	Fo/Fi
6.4	Segmen 6.4.1 6.4.2 6.4.3	Segment identification Disclosure requirements Using segment information for the analysis	Fi
<u>6.5</u>	<u>Interim</u>	reporting	Fi
<u>6.6</u>	Non-G2 6.6.1 6.6.2 6.6.3 6.6.4 6.6.5 6.6.6		Fi
7	Major	Financial Flows and Accounting Adjustments	
<u>7.1</u>	<u>Shareho</u> 7.1.1 7.1.2	Basic earnings per share Diluted earnings per share	Fo/Fi
<u>7.2</u>	Manage 7.2.1 7.2.2 7.2.3 7.2.4	ement vision: investments and free cash flow Modigliani Miller Basic example Global analytical table Non-cash charges	Fo/Fi

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<u>7.3</u>	Reconc	ciliation of the two approaches	Fo/Fi
	7.3.1	General principles	
	7.3.2	Operating cash flow and net income (shareholder approach)	
	7.3.3	Operating cash flow (shareholder approach) and FCFF (MM	
		approach)	
	7.3.4	EBITDA and FCFF (MM approach)	
<u>7.4</u>		ned figures and accounting adjustments	Fi
	7.4.1	Entries that give a false image of the company	
	7.4.2	Accounting definitions not recognised by international standards	
	7.4.3	Rewriting of entries in the case of different accounting standards	
	7.4.4	Capitalisation of research and development costs	
<u>7.5</u>	Present	tation of historic figures	Fo/Fi
	7.5.1	Time series analysis	
	7.5.2	Common size analysis	
8	Analys	sis of Management Performance	
8.1	Why us	se financial ratios?	Fo/Fi
8.2	Operati	ing risk measurement	Fo/Fi
	8.2.1	Measurement of management efficiency over the operating	
		cycle (gross margin, operating margin, net margin, asset	
		turnover, inventory outstanding period, collection period,	
		payables outstanding period)	
	8.2.2	Capital profitability ratios (ROA, ROCE, CFROI, ROE)	
8.3	Measur	rement of financial risk	Fo/Fi
	8.3.1	Liquidity ratios (current ratio, quick ratio, cash ratio)	
	8.3.2	Solvency ratios (average interest rate, net debt, capital structure	
		ratio, total debt to equity ratio, long-term debt to equity ratio,	
		interest coverage ratio, operating cash flow to cash interest cost,	
		operating cash flow to liabilities)	
	8.3.3	Credit risk (rating agencies, credit default swaps)	Fi
8.4	Key se	ctorial ratios and metrics	Fi
<u>0. T</u>	8.4.1	Industrial	11
	8.4.2	Oil and gas	
	8.4.3	Consumer	
	8.4.4	Healthcare	
	8.4.5	Technology	
	8.4.6	Banks	
	8.4.7	Utilities	
	-		

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<u>8.5</u>	Sensitivity analyses				
	8.5.1	Operating income sensitivity			
	8.5.2	Financial leverage sensitivity			
	8.5.3	Net income sensitivity			
<u>8.6</u>		of earnings as a measure of accounting risk	Fi		
	8.6.1	Financial warnings signs			
	8.6.2	Non-financial signs (change of accountants, sudden departure of CFO, delay in statements)			
	8.6.3	Revenue-related warning signs			
	8.6.4	Beneish M Score			
<u>8.7</u>	Analys	is of the business environment	Fi		
	8.7.1	A vision of the company beyond figures			
	8.7.2	Qualitative analysis of the industry			
	8.7.3	Qualitative analysis of the company			
9	Financ	ial Projections			
9.1	Different projection formats				
	9.1.1	Comprehensive format			
	9.1.2	Common size percentage			
	9.1.3	Growth rates method			
	9.1.4	Projections based on value drivers			
<u>9.2</u>	Estimated value drivers of the company				
	9.1.1	Sales forecast			
	9.1.2	Investment projections (net working capital and capital expenditure)			
	9.1.3	Other internal value drivers			
	9.1.4	External value drivers			
9.3	Recurring/non-recurring entries				
	9.3.1	Recurring accounting entries			
	9.3.2	Non-recurring accounting entries			
9.4	Additio	onal information (quarterly, divisions)	Fi		
	9.4.1	Projections based on interim reporting			
	9.4.2	Projections based on segment reporting			

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4. Corporate Finance

Broad Learning Objectives

Candidates should understand the fundamental component parts of corporate finance, such as objectives, valuation, discounted cash flow and capital budgeting within a corporate setting, together with decision making, both from a short term and long term perspective. The important financial decisions together with the underlying theories associated with capital structure, dividend policy and mergers and acquisitions should be understood in some detail within this topic area together with their applications to practical settings. Given the global nature of the CIIA designation, an in depth knowledge of international corporate finance should be developed and applied. The topic area concludes with a review of the organisation of value creation within a corporate setting.

1	Corpor	rate Finance and Value Creation	Fo/Fi
2	Investr	nent Mechanisms	
<u>2.1</u>	Basics	of cash flow analysis	Fo/Fi
2.2	The net	t initial investment (NINV)	Fo/Fi
	2.2.1	Replacement projects	
	2.2.2	Expansion project	
2.3	<u>Operati</u>	ing cash flows	Fo/Fi
	2.3.1	Depreciation	
	2.3.2	Net operating cash flows	
<u>2.4</u>	<u>Termin</u>	al cash flows	Fo/Fi
2.5	Future	value of cash flows	Fo/Fi
	2.5.1	Perpetuity	
	2.5.2	Annuity	
	2.5.3	Constant growth model	
	2.5.4	A stream of irregular cash flow	
3	Investr	ment Discount Rate	
3.1	Weight	ed average cost of capital (WACC)	Fo/Fi
	3.1.1	Cost of debt	
	3.1.2	The cost of equity capital	
	3.1.3	Weighted average cost of capital (WACC)	
	3.1.4	International capital budgeting	
3.2	<u>Optimi</u>	sation of weighted average cost of capital	Fo/Fi
	3.2.1	Leverage and the value of the firm	

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3.3	Dividend policy		
	3.3.1	Types of dividends	
	3.3.2	Repurchase of stock	
	3.3.3	Irrelevance theorem	
	3.3.4	The clientele effect	
	3.3.5	Signalling model	
	3.3.6	Dividend policy in local markets	
4	Investr	ment Decision Criteria	
<u>4.1</u>	Major 1	methods	Fo/Fi
	4.1.1	Net present value (NPV)	
	4.1.2	÷ ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
	4.1.3	Payback rules	
<u>4.2</u>	Capital	budgeting	Fo/Fi
	4.2.1	Method for ranking investment proposals	
	4.2.2	-	
	4.2.3	Common pitfalls	
4.3	The lin	k between the value of an investment and enterprise value	Fo/Fi
		-	
5	Merge	rs and Acquisitions	
<u>5.1</u>		ion issues	Fi
	5.1.1	ϵ	
	5.1.2	Motives for mergers	
<u>5.2</u>	Forms of acquisition		
	5.2.1	Takeovers	
	5.2.2	Approved acquisitions	
	5.2.3	Creeping take-overs	
	5.2.4	Eliminating minority interests	
	5.2.5	Going private and capital restructuring operations	
	5.2.6	Leverage buyout (LBO)	
	5.2.7	Management buyout (MBO)	
	5.2.8	Management buy in (MBI)	
<u>5.3</u>	Strateg	ies for the acquirer	Fi
	5.3.1	Aggressive or agreed	
<u>5.4</u>	Defens	ive strategies	Fi
	5.4.1	Pre-emptive versus reactive	
	5.4.2	Pre-emptive (long-term) strategies	
	5.4.3	Pre-emptive (short-term) strategies	
<u>5.5</u>	Liquida	ation and reorganisation	Fi
	5.5.1	Bankruptcy liquidation	
	5.5.2	Bankruptcy reorganisation	

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6 Project Financing

<u>6.1</u>	Long-te	erm financing	Fi
	6.1.1	Project evaluation from the investors' perspective	
	6.1.2	Project evaluation from the lenders' perspective	
6.2	Leasing	-	Fi
	6.2.1	Fundamentals of leasing	
	6.2.2	Motives for leasing	
	6.2.3	Accounting and tax consequences of leasing	
	6.2.4	Valuing leases from the lessee's perspective	
	6.2.5	Valuing leases from the lessor's perspective	
6.3	Short-te	erm finance decisions	Fi
	6.3.1.	Short-term financing	
	6.3.2		
	6.3.3	Short-term lending and borrowing	
7	The O	rganisation of Value Creation	
<u>7.1</u>	The his	story of corporate governance	Fi
<u>7.2</u>	The fou	ur key players in corporate governance	Fi
<u>7.3</u>	The cui	rrent main topics of discussion	Fi
	7.3.1	Management remuneration	
	7.3.2	e e e e e e e e e e e e e e e e e e e	
	7.3.3	Corporate governance: market sanctions	
		1 0	

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5. Equity Valuation and Analysis

Broad Learning Objectives

The features of equity shares and markets should be well understood. The valuation techniques that are employed in equity markets receive a strong emphasis with coverage of dividend discount models, the free cash flow model, ratio based valuation models and other model types, such as economic value added; a strong and in depth knowledge of these techniques should be developed. The topic syllabus concludes with a consideration of equity market equilibrium and its practical applications.

<u>1.1</u>	Equity 1.1.1 1.1.2 1.1.3 1.1.4	Number of stocks in an index	Fo/Fi
<u>1.2</u>	Listing	on a stock exchange	Fo/Fi
1.3	Rights	of shareholders	Fo/Fi
<u>1.4</u>	<u>Reporti</u>	ng requirements	Fo/Fi
2	Valuat	ion Methods	
2.1	History		Fo/Fi
<u>2.2</u>	Main vi 2.2.1 2.2.2 2.2.3 2.2.4	Substantive or asset values Relative evaluations: comparing ratios (earnings per share, price/book ratio, price/cash flow ratio, price/sales ratio, enterprise value ratios) Specific case of start-up and cyclical companies Returns or cash flow discounting	Fo/Fi
2.3	DCF in 2.3.1 2.3.2 2.3.3	practical detail Long-term growth Cost of capital Structure of liabilities	Fo/Fi

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3	Equity Market Equilibrium		
<u>3.1</u>	<u>Fair value</u>	Fi	
<u>3.2</u>	Long-term equilibrium		
3.3	Short-term equilibrium 3.3.1 Justification for the short term 3.3.2 The rise of short-termism	Fi	
4	Practical Application: Equity Market Equilibrium		
<u>4.1</u>	Short-term processing of information	Fi	
<u>4.2</u>	Short-term valuation methods		
<u>4.3</u>	Calculating market equilibrium in the short term	Fi	

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6. Economics

1

Broad Learning Objectives

The major concepts and variables that underpin macroeconomic analyses should be known and understood. The IS-LM model features in the syllabus and should be well understood due to its linking of the real and financial markets. Important macroeconomic phenomena such as economic output, inflation, growth, labour markets, monetary policy and business cycles should be all assessable in some detail, together with their various interrelationships. Knowledge of international macroeconomic material should be developed via the coverage of foreign exchange rates, interest rates and prices etc. and applications of this material to practical settings achievable. To facilitate a broad economic perspective and understanding, a number of the important macroeconomic issues are assessed within a simple economic modelling framework.

Concepts, Major Macroeconomic Variables and the IS-LM Model

Maia	m maamaaaanamia aanaanta and vaniahlas	Fo/Fi
1.1.1	r macroeconomic concepts and variables National income accounting: GDP and GNP	Γ0/Γ1
1.1.1	_	
1.1.3		
	pasic model of the real market in a closed economy	Fo/Fi
1.2.1		
1.2.2	Equilibrium in the real market: the IS relation	
	pasic model of the financial market in a closed economy	Fo/Fi
1.3.1	The demand for money	
1.3.2	Equilibrium in the money market: the LM relation	
The I	S-LM model	Fo/Fi
1.4.1	Equilibrium in the real and financial markets	
1.4.2	The effects of fiscal policy in a closed economy	
1.4.3	The effects of monetary policy in a closed economy	
1.4.4	Expected inflation and the IS-LM model	
Econ	omic Output and the Labour Market	
Produ	<u>action</u>	Fo/Fi
The la	abour market	Fo/Fi
Gene	ral equilibrium in the real, financial and labour markets	Fo/Fi
2.3.1	Aggregate supply	
2.3.2		
2.3.3	Equilibrium output in the short and the medium run	
2.3.4	The dynamic effects of fiscal policy	
2.3.5	The dynamic effects of monetary policy	

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2.4	Monito	ring the economy in the real world	Fo/Fi
	2.4.1	Potential output, definition and estimation	
3		nk between Inflation and Unemployment, Economic Growth siness Cycles	
3.1	Inflatio 3.1.1 3.1.2	n versus unemployment: the great trade-off? Unemployment and inflation: the Phillips curve The modern version of the Phillips curve	Fo/Fi
3.2	Econon 3.2.1 3.2.2 3.2.3	nic growth Growth accounting Capital accumulation and economic growth Technological progress and economic growth	Fi
3.3	Busines 3.3.1 3.3.2 3.3.3 3.3.4	The basics The classical approach: theory of exogenous business cycles The Keynesian approach: theory of endogenous business cycles Fiscal policy, monetary policy and the business cycle	Fi
3.4	Monito 3.4.1 3.4.2	ring the economy in the real world Business cycle: activity Business cycle: inflation	Fi
4	Balanc	e of Payments, Exchange Rates, Prices and Interest Rates	
<u>4.1</u>	The bal 4.1.1 4.1.2	ance of payments The accounting system Domestic savings and the current account balance	Fo/Fi
4.2	The exc 4.2.1 4.2.2	<u>Change rate</u> Nominal and real exchange rate Exchange rate regimes	Fo/Fi
4.3	Exchan 4.3.1 4.3.2 4.3.3	ge rate, prices and interest rates Purchasing power parity Covered interest rate parity Uncovered interest rate parity	Fo/Fi

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5	Econon	nic Issues Explained with a Simple Model	
<u>5.1</u>	The bas 5.1.1 5.1.2	The determination of demand in the real market Equilibrium in the real market: the IS relation in the open economy	Fi
	5.1.3	Equilibrium in the financial market: the LM relation in the open economy	
	5.1.4 5.1.5 5.1.6	Equilibrium in an open economy: the Mundell-Fleming model The effects of policy in an open economy Aggregate supply and demand in the open economy	
<u>5.2</u>	Theorie 5.2.1 5.2.2 5.2.3	es of exchange rate determination Balance of payments approach The asset approach Exchange rate determination: empirical evidence	Fi
<u>5.3</u>	Statistic	cal behaviour of the exchange rate	Fi
6	Moneta	ary Policy	
<u>6.1</u>	Basic co 6.1.1 6.1.2	oncepts of monetary theory The definition of money Money supply and the money multiplier	Fi
<u>6.2</u>	Moneta 6.2.1 6.2.2	The implementation process of monetary policy The instruments of monetary policy	Fi
6.3	The tran 6.3.1 6.3.2	Interest rate channel Credit channel	Fi

6.3.3

<u>6.4</u>

Exchange rate channel

Central bank operations in major countries

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Fi

7. Fixed Income Valuation and Analysis

Broad Learning Objectives

Canaval Duinainles

The characteristics and features of fixed income securities, both plain vanilla and more complex, together with the associated interest rate and risk related measures that are used in fixed income markets should be known and how they are applied in practical settings understood. The important topics of credit risk and asset backed securities are covered in some detail within the module with the objective of providing a strong understanding of these phenomena. The various strategies that are available to the fixed income portfolio manager should also be understood and their application in practical settings known.

1	Genera	ar i i meipies	
<u>1.1</u>	The del	bt instrument concept	Fo/Fi
	1.1.1	Economic role of bond issues	
	1.1.2	Bond issuers	
	1.1.3	Bond characteristics	
	1.1.4	Preferred stocks	
<u>1.2</u>	Time v	ralue of money	Fo/Fi
	1.2.1	Simple versus compound interest	
	1.2.2	Present and future value	
	1.2.3	Annuities	
	1.2.4	Continuous discounting and compounding	
	1.2.5		
	1.2.6	Price/yield relationship	
1.3	Bond y	rield measures	Fo/Fi
	1.3.1	Current yield	
	1.3.2	· · · · · · · · · · · · · · · · · · ·	
	1.3.3	Yield to call	
	1.3.4	Other yields	
	1.3.5	Other basic concepts	
	1.3.6	Yield curves	
	1.3.7	Yield spread analysis	
2	Interes	st Rates – Term Structures and Applications	
<u>2.1</u>	Term s	tructure of interest rates	Fo/Fi
	2.1.1	Yield curves and shapes	
	212	Theories of term structures	

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2.2	Risk measurement		Fo/Fi
	2.2.1	Risk measurement tools	
	2.2.2	Duration and modified duration	
	2.2.3	Convexity	
	2.2.4	•	
	2.2.5	Impact of coupon payments and time lapse on duration	
	2.2.6	Key rate duration	
	2.2.7	Portfolio duration, convexity and key rate duration	
2.3	<u>Usage</u>		Fo/Fi
	2.3.1	Bond yield curves	
	2.3.2	Bond curves in market usage	
	2.3.3	Curve shapes and forward rates	
	2.3.4	Curves, economic activity and monetary policy	
	2.3.5	Portfolio valuation and mark-to-market with unobserved prices	
	2.3.6	Financial engineering	
	2.3.7	Risk management	
3	Hybrid	l Forms	
3.1	Bonds	with warrants	Fo/Fi
	3.1.1	Investment characteristics	
	3.1.2	Valuation of warrants	
	3.1.3	Empirical studies and market	
	3.1.4	Exotic types of warrants	
3.2	Conver	tible bonds	Fo/Fi
	3.2.1	Investment characteristics	
	3.2.2	Convertible bond features	
	3.2.3	Valuation of convertible bonds	
	3.2.4	Investment strategies	
	3.2.5	Risk management of convertible bonds	
	3.2.6	Empirical studies	
	3.2.7	Contigent convertibles	
3.3		e bonds	Fo/Fi
	3.3.1	Investment characteristics	
	3.3.2	Valuation and duration	
<u>3.4</u>		g rate notes	Fo/Fi
	3.4.1	Investment characteristics and types	
	3.4.2	\mathcal{E}	
	3.4.3	Risk measures – interest rate versus credit duration	
	3.4.4	Complex FRN's	
<u>3.5</u>		n-linked bonds	Fo/Fi
	3.5.1		
	3.5.2		
	3.5.3	Market situation	

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4	Credit	Risk and Mortgage Securitisation	
4.1	Credit 1 4.1.1 4.1.2 4.1.3 4.1.4	Relevance of the corporate bond market Fundamental credit analysis	Fi
4.2	Mortga 4.2.1 4.2.2 4.2.3	Mortgage-backed bond market Types of mortgages Mortgage securitisation	Fi
5	Asset-I	Backed Securities	
<u>5.1</u>	Structu	<u>rres</u>	Fi
<u>5.2</u>	<u>Types o</u> 5.2.1 5.2.2	of underlying assets Instalment contracts Revolving lines of credit	Fi
<u>5.3</u>	Credit 6 5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6	Guaranty Reserve fund Recourse	Fi
<u>5.4</u>	Major 1 5.4.1 5.4.2 5.4.3 5.4.4 5.4.5	risks of ABS Interest rate risks Prepayment risks Credit risk Liquidity risk Counterparty risks	Fi
<u>5.5</u>	Valuati	ion methodologies	Fi
6	Fixed l	Income Portfolio Management Strategies	
6.1	Passive 6.1.1 6.1.2 6.1.3 6.1.4	E management Buy and hold Indexation Interest rate immunisation Asset-liability management	Fo/Fi
<u>6.2</u>	Active 6.2.1 6.2.2	management Forecasting and portfolio construction Active management in practice	Fo/Fi

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<u>6.3</u>	<u>Portfol</u>	io construction based on a factor model	Fi
	6.3.1	Model specification	
	6.3.2	Interest rate anticipation strategies	
<u>6.4</u>	Compu	ating the hedge ratio: the modified duration method	Fi
	6.4.1	Hedging strategies using longer bond futures	

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8. Derivative Valuation and Analysis

Broad Learning Objectives

The basic characteristics and types of futures and options (including exotic options) should be understood, together with various important features associated with these instruments, such as valuation and pricing, risk management and other investment strategies. The option sensitivities (the "Greeks") such as delta, gamma etc., together with volatility related issues should also be fully understood and capable of being applied to various investment problems. Swaps and credit derivatives should be similarly understood, with the material on credit derivatives reflecting their growing importance and impacts in recent times.

Basic c	naracteristics of forward and futures contracts	F
Mechar	uics of trading in futures markets	I
1.2.1	Long and short positions	
1.2.2	Profit and loss at expiration	
1.2.3	Closing positions	
1.2.4	Delivery procedures	
1.2.5	The marking to market of futures contracts	
1.2.6	The leverage effect	
1.2.7	Futures quotes	
1.2.8	World major futures markets	
Futures	valuation and analysis]
1.3.1	The basis	
1.3.2	Theoretical price of futures	
Exampl	es of various futures contracts	I
1.4.1	Stock futures	
1.4.2	Foreign exchange futures	
1.4.3	Commodity futures	
1.4.4	Interest rate futures	
1.4.5	Other futures contracts	
1.4.6	Further considerations	
1.7.0		
	ction to hedging strategies using futures]
	ction to hedging strategies using futures The hedge ratio]
Introdu]
Introduction 1.5.1	The hedge ratio]
Introduction 1.5.1 1.5.2	The hedge ratio The perfect hedge Basis risk and correlation risk]
Introduction 1.5.1 1.5.2 1.5.3	The hedge ratio The perfect hedge]
Introduction 1.5.1 1.5.2 1.5.3 1.5.4	The hedge ratio The perfect hedge Basis risk and correlation risk The minimum variance hedge ratio	

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2	Option	S	
<u>2.1</u>	<u>Introdu</u>	ction	Fo/Fi
2.2	Definit	ions and basic characteristics of options	Fo/Fi
	2.2.1	Option main characteristics	
	2.2.2	Call and put options	
	2.2.3	Call and put options vs. forward and futures contracts	
	2.2.4	The example of equity options	
<u>2.3</u>	Basic o	ption strategies	Fi
	2.3.1	Spreads	
	2.3.2	Strangles and straddles	
<u>2.4</u>	<u>Arbitra</u>	ge relationships	Fo/Fi
	2.4.1	Introduction: principle of no-arbitrage	
	2.4.2	1 1	
	2.4.3		
	2.4.4	A fundamental relationship: the put-call parity	
2.5	B&S of	ption pricing model	Fo/Fi
	2.5.1	Risk-neutral pricing	
	2.5.2	European options on stocks paying no dividends	
	2.5.3	European options on stocks paying constant known dividends	
	2.5.4	American options	
	2.5.5	Limitations of the Black-Scholes model	
<u>2.6</u>	Sensitiv	vity analysis of options premiums	Fo/Fi
	2.6.1	Delta	
	2.6.2		
	2.6.3	ϵ	
	2.6.4	Theta	
	2.6.5	Rho	
	2.6.6	Vega	
<u>2.7</u>		ity and related topics	Fi
	2.7.1	Estimating volatility from historical data	
	2.7.2	Implied volatility and volatility smile	
	2.7.3	The volatility index (VIX)	
<u>2.8</u>	<u>Options</u>	s on other underlying asses	Fo/Fi
	2.8.1	Equity index options	
	2.8.2	Options on Futures	
	2.8.3	Warrants	
	2.8.4	Foreign exchange options	
	2.8.5	Caps, floors, collars	
<u>2.9</u>	Exotic	<u>options</u>	Fi
	2.9.1	Path-independent options	
	2.9.2	Path-dependent options	
	2.9.3	Pricing exotic options with numerical methods	

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2.10	Appendix 2.10.1 2.10.2 2.10.3 2.10.4	x: binominal option pricing model One-period binominal model Multi-period binominal model American puts and calls Limiting results of the binominal model	Fo/Fi
3	Swaps a	nd Credit derivatives	
3.1	Introduct	tion_	Fi
3.2	Swaps 3.2.1 3.2.2 3.2.3 3.2.4	Definition and characteristics Strategies using swaps Pricing and valuing swaps Other types of swaps	Fi
3.3	Credit De 3.3.1 3.3.2 3.3.3 3.3.4 3.3.5 3.3.6 3.3.7 3.3.8 3.3.9 3.3.10	The mechanisms of Credit Derivatives market Market participants Institutional framework Credit default swaps (CDS) Credit linked notes (CLN) Other credit default swap products Spread volatility of credit default swaps Credit derivatives: valuation of credit default swaps The role of credit dervivatives The aftermath of the 2008 financial crisis	Fi

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9. Portfolio Management

Modern Portfolio Theory

Broad Learning Objectives

1

An understanding of the important building blocks associated with portfolio management, such as the risk/return relationship, diversification, pricing models, market efficiency and risk measures should be obtained. Asset allocation, asset liability management and hedging strategies (including dynamic and insurance strategies) should be understood together with their applications. An understanding of the importance and features of performance measurement and evaluation, together with the choice of investment manager, should be developed, together with a knowledge of the features and benefits associated with the alternative investment asset class. Understand and assess the fintech developments.

<u>1.1</u>	The Ri	sk / Return Framework Return basics Risk basics	Fo/Fi
<u>1.2</u>	1.2.1 1.2.2	1	Fo/Fi
1.3	Capital 1.3.1 1.3.2 1.3.3	Asset Pricing Model (CAPM) The separation theorem and the market portfolio Capital market line (CML) Security market line (SML)	Fo/Fi
1.4 2	1.4.1 1.4.2	ϵ	Fo/Fi
<u>2.1</u>		nt Markets Information Efficiency Efficient Market Hypothesis	Fi

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2.3	Behavi	oural Finance	Fi
	2.3.1		
	2.3.2		
	2.3.3		
	2.3.4		
		Level 2: Market Anomalies	
	2.3.6		
	2.3.0	Level 3. Style investing	
3	Multifa	actor Models and Factor Investing	
3.1	Arbitra	ge Pricing Theory (APT)	Fi
	3.2.1		
	3.2.2	Introduction to the APT	
	3.2.3	Derivation of the APT	
	3.2.4		
	3.2.5		
	3.2.6	Applications of the APT	
<u>3.2</u>		Investing	Fi
	3.2.1	Factor Investing Framework	
	3.2.2	, E	
	3.2.3	Factor Portfolio Management	
4	Client	Objectives and Investment Policy	
<u>4.1</u>	Introdu	ction	Fo/Fi
	111110		1 0,11
<u>4.2</u>	<u>Individ</u>	ual Investors	Fo/Fi
	4.2.1	Investment Objectives	
	4.2.2	Investment Constraints	
	4.2.3	Base Currency	
	4.2.4		
	4.2.5	Investor Categorisation	
	4.2.6	Deciding Portfolio Structure	
12	Institut	ional Investors	Fo/Fi
<u>4.3</u>	4.2.1		1.0/1.1
		Pensions and Employee Benefit Funds Endowment Funds	
	4.2.2		
	4.2.3 4.2.4	Insurance Companies Commercial Banks	
5	Asset A	Allocation	
<u>5.1</u>	Asset A	Allocation	Fo/Fi
	5.1.1	Overview	
	5.1.2	Types of Asset Allocation	
<u>5.2</u>	Asset L	Liability Management	Fo/Fi
	5.2.1	Introduction	
	5.2.2	Modelling of Assets and Liabilities	
	5.2.3	<u>e</u>	

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<u>5.3</u>	Hedging Strategies				
	5.3.1	5.3.1 Introduction			
	5.3.2	Linear Strategies			
	5.3.3				
6	Interna	International Investments			
<u>6.1</u>	International Diversification				
	6.1.1	Computing foreign currency return and variance			
	6.1.2				
	6.1.3	· · · · · · · · · · · · · · · · · · ·			
	6.1.4	Emerging markets			
6.2	Hedgin	Hedging Foreign Exchange Risk			
	6.2.1	Effective management of currency risk			
	6.2.2	Behaviour of currency returns			
	6.2.3	Is it a separate asset class / zero sum game?			
	6.2.4	Treatment of currency within a global portfolio / Optimal level			
		of hedge			
	6.2.5	Black's paper on universal currency hedge			
	6.2.6	Use of overlay strategies			
6.3	Internat	ational equities			
<u>6.4</u>	Internat	ational fixed income			
<u>6.5</u>	Managi	ng a portfolio of international assets	Fo/Fi		
7	Sustain	nable Investments			
<u>7.1</u>	Motiva	tion and Objectives	Fo/Fi		
7 2	Eumdom	a out a lo	Eo/E:		
7.2	Fundan		Fo/Fi		
	7.2.1 7.2.2	Understanding sustainability			
	1.2.2	Sustainability in an investment context			
<u>7.3</u>	Sustainable investment strategies				
	7.3.1	Historical development			
	7.3.2	Market drivers			
	7.3.3	Sustainable investment strategies: an overview			
<u>7.4</u>	Integrating ESG into the investment process				
	7.4.1	ESG data and principles in an investment process			
	7.4.2	Performance observations			
	7.4.3	Mainstreaming and the case for integrated valuation			

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8	Performance Measurement and Evaluation				
<u>8.1</u>	Performance Measurement				
		Return measurement			
	8.1.2	Benchmarks			
	8.1.3	Risk measurement			
<u>8.2</u>	Performar	Fi			
	8.2.1	Return attribution			
	8.2.2	Risk attribution			
<u>8.3</u>	<u>Performan</u>	Fi			
	8.3.1	Types of performance presentation			
	8.3.2	Best practice for performance presentation			
<u>8.4</u>	Investmen	nt Controlling	Fi		
	8.4.1	Definition and outline of investment controlling			
	8.4.2	Generic performance evaluation process			
	8.4.3	Pitfalls in performance evaluation			
9	Manager Selection				
<u>9.1</u>	Manager S	Selection Process	Fi		
	9.1.1	Manager screening			
	9.1.2	Due diligence and manager selection			
	9.1.3	Manager monitoring			
<u>9.2</u>	Style Ana	Fi			
	9.2.1	Means of style analysis			
	9.2.2	Application of style analysis			
9.3	Investmen	Fi			
	9.3.1	Investment vehicles			
	9.3.2	Cost and fee structure			
10	Equities I	Management			
10.1	Principles of equity management				
	_	Risk in operational terms			
	10.1.2	Risk control			
	10.1.3	Active and passive management			
10.2	Managing	Fi			
	10.2.1	Active management			
	10.2.2	Passive management			
10.3	Trading a	Fi			
_	10.3.1	The role of trading			
	10.3.2	Limit Order Book Markets			
	10.3.3	The costs of trading			
	10.3.4	Institutional Order Execution			

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	10.3.5 10.3.6 10.3.7 10.3.8 10.3.9 10.3.10	Fragmentation Detecting and Hiding Trading Intentions Dark Pools Market Makers – Old and New Manipulative Conduct Market Solutions to Manipulation			
11	ETF				
<u>11.1</u>	Introduc	<u>tion</u>	Fo/Fi		
11.2	Internal 11.2.1 11.2.2 11.2.3	Workings of ETFs Legal Structures of ETFs in the US and Europe ETF In-Kind Creation/Redemption Mechanism ETF Arbitrage Mechanism	Fo/Fi		
11.3	Index Re 11.3.1 11.3.2 11.3.3 11.3.4 11.3.5	Tracking Error and Tracking Difference Physical Replication Method Synthetic Replication Method Factors Impacting Tracking Accuracy Securities Lending	Fo/Fi		
11.4	ETF Tra 11.4.1 11.4.2 11.4.3 11.4.4 11.4.5	Authorized Participants and Market Makers Market Structure and Determinants of Liquidity Secondary Market Trading Total Cost of Ownership Levels of Taxation	Fo/Fi		
<u>11.5</u>	ETF App	ETF Applications and Techniques Fo/F			
12	Alternat	tive Investments			
<u>12.1</u>	Real Est 12.1.1 12.1.2	ate Valuation and indices of real estate Integration of real estate in the mixed-asset portfolio	Fi		
12.2	Private I 12.2.1 12.2.2	Equity and Hedge Funds Private Equity Hedge Funds	Fi		
12.3	Investing 12.3.1 12.3.2 12.3.3 12.3.4 12.3.5	g in Commodities Commodity sectors Commodities as an asset class Theories of future returns Commodity indices Investment vehicles	Fi		

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