IB266-15 Fundamentals of Finance

20/21

Department Warwick Business School Level Undergraduate Level 2 Module leader Rory Mullen Credit value 15 Module duration 10 weeks Assessment Multiple Study location University of Warwick main campus, Coventry

Description

Introductory description

- Introduce students to the workings of the equity, bond and derivatives markets.
- Equip students with the skills and understanding to use quantitative tools for pricing stocks, bonds and derivatives.
- Develop in students a critical understanding of the trade-off between risk and return, and of techniques for exploiting that trade-off to maximum effect.
- Make students aware of key empirical tests of the Efficient Markets Hypothesis, and the implications of those empirical findings.
- Provide students with structured opportunities to practise using the key tools and techniques of Financial Markets theory.
- Prepare students for advanced undergraduate and postgraduate studies in Finance.

Module aims

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implications of those empirical findings.

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Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Investment under Certainty: Inter-temporal consumption, Fisher Separation.

Investor Preferences: Risk aversion, Expected utility.

Optimal Portfolio Selection: Diversification, Risk vs. Return, Capital Market Line.

Capital Asset Pricing Model: Beta, CAPM, Securities Market Line.

Bonds and Interest Rates: Spot rates, forward rates, bond pricing, term structure of interest rates, Pure Expectations and Liquidity Preference Hypotheses.

Financial Derivatives: Arbitrage-free futures pricing, binomial and Black-Scholes option pricing. Market Efficiency:Efficient Markets Hypothesis, calendar anomalies, speculative bubbles, empirical tests.

Learning outcomes

By the end of the module, students should be able to:

- Describe how equity and bond markets function, and their importance to both individual investors and institutions.
- Explain how these markets price stocks and bonds.
- Explain how risk can be diversified by forming portfolios of assets, and how to construct the optimum portfolio.
- Critically assess theoretical relationships between risk and return.
- Distinguish between spot and forward rates of interest. Formulate different hypotheses for the term structure of interest rates.
- List the different forms of market efficiency, and interpret the results of key tests of the Efficient Markets Hypothesis
- Describe how derivatives markets function.
- Explain how derivatives markets price securities.

Indicative reading list

Required text:

Hillier D, Ross SA, Westerfield RW, Jaffe J & Jordan BD Corporate Finance (3rd edition), McGraw-Hill 2016
Other texts:
Bodie Z, Kane A & Marcus AJ Investments (10th edition), McGraw-Hill 2014
Copeland TE, Weston JF and Shastri K, Financial Theory and Corporate Policy (4th edition), Pearson (Addison Wesley) 2005

Subject specific skills

Use discounted cash-flow techniques to value financial securities.

Write informed critiques of key issues in asset valuation.

Analyse short case-studies and construct arguments to support a particular solution.

Calculate spot and forward rates of interest from observed market prices of calibration bonds, and use these rates to price other bonds and identify arbitrage opportunities.

Calculate the forward price of a traded asset using the noarbitrage principle.

Price option contracts using the binomial model or the Black-Scholes model.

Transferable skills

Solve structured numerical problems.

Write informed critiques of key issues in valuing risky assets.

Analyse case studies and construct arguments to support a particular solution. Construct spreadsheets to:

(a) determine the risk-return characteristics of portfolios of risky assets.

(b) price stocks, bonds and options.

Calculate the forward price of a traded asset using the noarbitrage principle.

Price option contracts using the binomial model or BlackScholes model.

Calculate spot and forward rates of interest, and use these to price bonds

Study

Study time

Туре	Required
Lectures	10 sessions of 2 hours (13%)
Seminars	9 sessions of 1 hour (6%)
Private study	49 hours (33%)
Assessment	72 hours (48%)
Total	150 hours

Private study description

No private study requirements defined for this module.

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Assessment group D1

	Weighting	Study time
Participation	10%	7 hours
Class Test		
Online Examination	90%	65 hours
Exam		
~Platforms - AEP		
Assessment group R		
	Weighting	Study time
Online Examination - Resit	100%	
Exam		

~Platforms - AEP

Feedback on assessment

In-class and on my.wbs

Past exam papers for IB266

Availability

Pre-requisites

To take this module, you must have passed:

- All of
 - IB125-15 Foundations of Financial Management

Post-requisite modules

If you pass this module, you can take:

• IB236-15 Finance 2: Corporate Finance

Anti-requisite modules

If you take this module, you cannot also take:

• IB235-12 Finance 1: Financial Markets

Courses

This module is Optional for:

- UIBA-N20B BSc in Management
 - Year 2 of N20B Management
 - Year 2 of N20B Management
 - Year 2 of N23K Management with Accounting
 - Year 2 of N234 Management with Digital Innovation
 - Year 2 of N235 Management with Entrepreneurship
 - Year 2 of N232 Management with Finance
 - Year 2 of N252 Management with Marketing
 - Year 2 of N23L Management with Strategy and Organisation
- Year 2 of UIBA-N1RA Undergraduate International Business with French
- Year 2 of UIBA-N1RB Undergraduate International Business with German
- Year 2 of UIBA-N1RC Undergraduate International Business with Italian
- Year 2 of UIBA-N1RD Undergraduate International Business with Spanish
- UIBA-N20F Undergraduate International Management
 - Year 2 of N20F International Management
 - Year 2 of N20F International Management
 - Year 2 of N20S International Management (with Accounting)
 - Year 2 of N20T International Management (with Chinese)
 - Year 2 of N20N International Management (with Digital Innovation)
 - Year 2 of N20P International Management (with Entrepreneurship)
 - Year 2 of N20M International Management (with Finance)
 - Year 2 of N20U International Management (with French)
 - Year 2 of N20L International Management (with Marketing)
 - Year 2 of N20V International Management (with Spanish)
 - Year 2 of N20W International Management (with Strategy and Organisation)
 - Year 2 of N20E Management (with Foundation Year)
 - Year 2 of N234 Management with Digital Innovation
- Year 2 of UIBA-MN3A Undergraduate Law and Business Studies
- UIBA-N20E Undergraduate Management (with Foundation Year)
 - Year 3 of N20E Management (with Foundation Year)
 - Year 3 of N23N Management with Accounting (with Foundation Year and Placement Year)
 - Year 3 of N23M Management with Accounting (with Foundation Year)
 - Year 3 of N23E Management with Digital Innovation (with Foundation Year)
 - Year 3 of N23F Management with Entrepreneurship (with Foundation Year)
 - Year 3 of N23D Management with Finance (with Foundation Year)

• Year 3 of N254 Management with Marketing (with Foundation Year)

• Year 3 of N23P Management with Strategy and Organisation (with Foundation Year)