

Master of Science in Finance
Program code: 101210

INTRODUCTION

The Department of Finance & Financial Institutions (College of Business Administration) offers a Master's degree in **Finance**. This program offers both thesis and non-thesis option , its designed in such a way as to provide the transmission of high-quality finance knowledge to students who want to work as finance practitioners, performing core functions in asset pricing, design of trading rules and financial forecasting

According to the University Council decision dated 4/2/2007, Thesis students admitted with effect from September 2007 are exempted from the comprehensive examination.

PROGRAM REQUIREMENTS

30 (36) TOTAL COURSE CREDITS

12 (12) BASIC COURSES (3 credits each)

1012-500	Corporate Finance	
1012-502	International Finance	Equivalent to 1015-522
1012-503	Financial Risk Management	Equivalent to 1015-525
1012-504	Research Methods in Finance	

9 (21) ELECTIVE COURSES (3 credits each)

Thesis Track:

1012-501	Investment & Portfolio Management	Equivalent to 1015-523
1012-505	Financial Econometrics	Equivalent to 1030-504
1012-510	Behavioral Finance	
1012-511	Financial Modeling	
1012-512	Islamic Finance	
1012-513	Case Studies in Finance	
1012-518	Special Topics I	
1012-519	Special Topics II	

Project (Non-Thesis) Track:

1012-501	Investment & Portfolio Management	Equivalent to 1015-523
1012-505	Financial Econometrics	Equivalent to 1030-504
1012-510	Behavioral Finance	
1012-511	Financial Modeling	
1012-512	Islamic Finance	
1012-513	Case Studies in Finance	

1012-518	Special Topics I	
1012-519	Special Topics II	
1012-520	Real Estate Finance and Investment	
1012-521	Fixed Income Instrument	
1012-522	Equity Valuation	
1012-523	Finance Markets	
1012-524	Management Financial Institution	
1012-525	Alternative Investment	
1012-526	Merger and Acquisitions	
1012-527	Fintech	
1012-545	Advanced Financial Statement Analysis	Equivalent to 1020-571

9 (3) COMPULSORY COURSES

1012-593	Project (3)	(for non-thesis option)
1012-597	Thesis	(0)
1012-598	Thesis	(0)
2000-599	Thesis	(9)

Foundation Courses

Graduate of non-finance, non-business disciplines are required to take and pass, with an average of B, three foundation courses (3 credits each) out of the list of courses offered by the MBA program. Graduates of accepted area will be granted exemptions on a case-by-case basis as judged by the Program Director. A placement test may be required for this purpose. Foundation courses may be taken concurrently with core courses.

1015-521	Financial Management
1015-571	Financial and Managerial Accounting
1015-572	Survey of Economics
1030-509	Statistics

COURSE DESCRIPTION

1012-500: CORPORATE FINANCE CR: 3

This course provides the knowledge and tools required to understand the financing and investment decisions of corporations. Topics include capital markets, capital budgeting, asset pricing models, capital structure, the cost of capital, dividend policy, working capital management, mergers, restructuring and corporate control.

1012-501: INVESTMENT AND PORTFOLIO MANAGEMENT CR: 3

The course is an in depth study of fundamental principles related to portfolio theory and investment analysis. Topics to be covered in this course are investment environment, financial markets, portfolio theory, equity, fixed income securities, option valuation, and other derivative securities.

1012-502: INTERNATIONAL FINANCE CR: 3

This course deals in detail with financial operations that encompass a foreign currency factor. These include arbitrage, hedging, speculation, investment and financing. These operations are studied by taking into account real world conditions, such as transaction costs and bid-offer spreads.

1012-503: FINANCIAL RISK MANAGEMENT CR: 3

The course is a study of financial hedging, which consists of taking an opposite position on another financial instrument, most commonly a derivative instrument. Emphasis is on the market risk arising from fluctuations in the prices of fixed income securities, equity and foreign exchange.

1012-504: RESEARCH METHODS IN FINANCE CR: 3

This course introduces students to quantitative and qualitative research methods in finance, including estimation, hypothesis testing and survey design. It is also about the philosophy of research in finance, including research design and the ethical issues of research. Another element of this course is the importance of concise writing and presentation of results using informative graphs and tables.

1012-505: FINANCIAL ECONOMETRICS CR: 3

This course provides knowledge of the econometric methods used to analyze financial data, with applications in all branches of finance, including investment and portfolio management and international finance. Topics include the conventional ordinary least squares (OLS) method, univariate analysis, co-integration, error correction modeling and general dynamic modeling. The use of econometric packages such as Eviews, Microfit and Shazam is an integral part of the course.

1012-510: BEHAVIORAL FINANCE CR: 3

The course deals with an alternative approach to the study of financial markets, an approach that incorporates the principles of psychology. This approach starts with an observation that the assumption of investor rationality and perfect arbitrage are inconsistent with psychological and institutional evidence and that it is indeed inconsistent with the observed behavior of financial market participants. It is demonstrated that behavioral finance models explain the available financial data better than the conventional efficient market hypothesis. The principles of behavioral finance are studied in reference to the stock market and the foreign exchange market.

1012-511: FINANCIAL MODELING CR: 3

The course aims to provide practical relevance and real-world applications to finance concepts. Adopting a problem-solving approach, it focuses on computational issues in corporate finance, international finance, investment and portfolio management and financial risk management. The subject requires an intensive use of Excel spreadsheets.

1012-512: ISLAMIC FINANCE CR: 3

This course provides an introduction to Islamic banking, Shari'ah, Islamic economics, Islamic financial contracts and products development, accounting for Islamic financial transactions, risk management in Islamic financial markets and institutions, Islamic corporate governance and legal and regulatory issues in Islamic banking and finance.

1012-513: CASE STUDIES IN FINANCE
CR: 3

An examination of case studies in corporate finance, international finance, investment and portfolio management and financial risk management. The cases may involve quantitative and qualitative techniques. They describe business situations faced by financial managers, who must conduct thorough analysis for the purpose of decision making.

1012-518: SPECIAL TOPICS I
CR: 3

This course deals with a current practical issue such as the global financial crisis. Otherwise, it may deal with a narrow but important topic, such as the Basel II & III Accord, or more focused topics in finance such as Operational Risk, Macro Finance, Financial Markets Microstructure, Financial Regulation, Financial Forecasting, Foreign Direct Investment, Development Finance, and Finance Applications of Monte Carlo Simulation.

1012-519: SPECIAL TOPICS II
CR: 3

This course deals with a current practical issue such as the global financial crisis. Otherwise, it may deal with a narrow but important topic, such as the Basel II Accord, or more focused topics in finance such as Operational Risk, Macro Finance, Financial Markets Microstructure, Financial Regulation, Financial Forecasting, Foreign Direct Investment, Development Finance, and Finance Applications of Monte Carlo Simulation.

1012-520: REAL ESTATE FINANCE AND INVESTMENT
CR: 3

Study of the setting and measurement of property values in real estate markets and an analysis of real estate as an investment vehicle. It mainly covers debt and equity financing of residential and commercial properties, the style of mortgages markets and instruments, lender and investor decisions in real estate financing.

1012-521: FIXED INCOME INSTRUMENT
CR: 3

The course covers various aspects of fixed income securities. The topics covered should include, but not limited to, features and risks of fixed income securities, understanding yield spreads, yield measures, forwards, and spots, interest rate risk measurement, term structure, valuation of bonds with embedded options, credit analysis, and bond portfolio management including portfolio risk measurement and management.

1012-522: EQUITY VALUATION
CR: 3

The course analyses companies from a fundamental perspective in order to derive an intrinsic value for stock. The topics covered should include, but not limited to, estimating risk-free rates and risk premiums, estimating risk and costs of financing, measuring earnings and transforming them into cash flows, estimating growth, estimating the terminal value, the various valuation models ranging from the dividend discount model to the free cash flow models, and relative valuation. Students would have a hand-on application on real cases of these techniques.

1012-523: FINANCIAL MARKETS
CR: 3

This course presents an overview of the structure and function of financial markets and their role in allocating capital. It will give students a broad understanding of the instruments traded in these markets and the mechanisms that facilitate their trading and issuance.

1012-524: MANAGEMENT FINANCIAL INSTITUTIONS
CR: 3

Analyzes the management and operations of firms in the financial services industry, and studies the competitive money and capital markets in which they operate. Risk management in the financial institution is emphasized in detail using a variety of techniques. The functions of commercial banks, investment banks, and other financial intermediaries will be covered, and aspects of the regulation of these institutions will be examined.

1012-525: ALTERNATIVE INVESTMENT
CR: 3

This course addresses a variety of applied topics in entrepreneurial finance and private equity (PE); issues related to measuring returns in private equity funds, valuing enterprises at different stages of development, and structuring deals using various forms of financing will be explored. In addition, the course will cover topics of venture capital investing, finance of technological innovation, hedge funds, and managed funds.

1012-526 MERGER AND ACQUISITIONS
CR: 3

The objective of this course is to develop an understanding of mergers and acquisitions from the point view of corporate executive. Student will gain a well – rounded understanding of the major strategic, economic ,financial, and governance issues of mergers and acquisitions.

1012-527: FINTECH

CR: 3

This course is designed to equip students with the ability to identify opportunities for disruption in the financial services industry through studies of how financial technology transformed the financial sector. The course examines current and emerging technologies around money and payments, markets and consumer experience, and explores key ideas, principles, and frameworks around Fintech and Regtech. It covers topics of blockchain, crowdfunding and Robo-advisors.

1012-545: ADVANCED FINANCIAL STATEMENT ANALYSIS

CR: 3

This course provides an in-depth study of the concepts, skills and tools needed to interpret and analyze financial statements. Topics include: assessing the profitability and risk of healthy and distressed firms, analysis of corporate acquisition, analysis of multinational operations, derivatives and hedging activities, analyzing pro forma financial statements and their use in valuation and industry analyses.

1012-593 PROJECT

CR: 3

The student undertakes an independent project on a research topic of theoretical and/or experimental focus under the supervision of a faculty member listed in the supervisory list of the College of Graduate Studies. The objective is to provide the student with an opportunity to integrate and apply the knowledge gained throughout the course of study in a practical problem. The student must document the project in a scientific report following standard research writing guidelines and give a public presentation to the project examination committee.

1012-597: THESIS

CR: 0

1012-598: THESIS

CR: 0

2000-599: THESIS

CR: 9