

Opasraportti

Oulu Business School - Master of Science (MSc), Finance 2014-2015 (2014 - 2015)

Master of Science (Econ. & Bus. Ad.) degree in **Finance** provides students with a strong foundation in the theoretical and empirical tools of modern finance. Topics covered include asset pricing, corporate finance, portfolio management and risk management. The approach is analytical and methodologically oriented. The programme provides students with the knowledge and skills required to work in demanding specialist and executive positions in the financial sector, and gives a good basis for further academic studies at the postgraduate level.

After completing the Master of Science (Econ. & Bus. Adm.) degree in finance the student is able to

- recognize differences between traditional thinking and 'new facts' in finance
- choose and apply the most important methods in financial econometrics
- show expertise in a specific subject area by conducting independent research and reporting on the implementation and results of the research

Course Structure Diagram in 2014-2015

[MSc \(Econ. & Bus. Adm.\) in Finance](#)

Degree structure

Module 1: General studies

721957S Fundamentals of Finance	6
721958S Empirical Research in Finance I	6
721220S Mathematical Economics	6
721060S Principles of Econometrics	6
721070S Globally Responsible Business	6

Module 2: Financial management

Five courses of the following:

721963S Corporate Finance	6
721960S Financial Risk Management	6
721961S Entrepreneurial Finance	6
721128S Corporate Governance	6
721137S International Financial Reporting	6
721190S Advanced Firm Valuation	6
721065S Internship*	6

Module 3: Investments

Five courses of the following:

721383S Asset Pricing	6
721952S Portfolio Management	6

721956S Alternative Investments	6
721954S Financial Econometrics	6
721962S International Finance	6
721959S Empirical Research in Finance II	6
721065S Internship*	6

*Internship may be included once into module 2 or 3.

Module 4: Master's thesis

721950S Master's Thesis in Finance 30

Tutkintorakenteisiin kuulumattomat opintokokonaisuudet ja -jaksot

721189S: Advanced Financial Analysis, 6 op
 721190S: Advanced Firm Valuation, 6 op
 721956S: Alternative Investments, 6 op
 721383S: Asset Pricing, 6 op
 721963S: Corporate Finance, 6 op
 721958S: Empirical Research in Finance I, 6 op
 721959S: Empirical Research in Finance II, 6 op
 721961S: Entrepreneurial Finance, 6 op
 721954S: Financial Econometrics, 6 op
 721960S: Financial Risk Management, 6 op
 721957S: Fundamentals of Finance, 6 op
 721070S: Globally Responsible Business, 6 op
 721333S: Industrial Organization, 6 op
 721962S: International Finance, 6 op
 721950S: Master's Thesis, Finance, 30 op
 721952S: Portfolio Management, 6 op
 721951S: Portfolio Performance Analysis, 6 op
 721066S: Principles of Econometrics, 6 op

Opintojaksojen kuvaukset

Tutkintorakenteisiin kuulumattomien opintokokonaisuuksien ja -jaksojen kuvaukset

721189S: Advanced Financial Analysis, 6 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Petri Sahlström

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 ECTS credits.

Language of instruction:

English.

Timing:

Period D. It is recommended to complete the course during the Master's programme's 1st spring semester.

Learning outcomes:

After passing the course, the student is able to use the analysis tools frequently applied in financial accounting. Thus, the student is able to assess and produce information needed in decision-making related to financial information. Moreover, the student is able to make their own research in the area of financial analysis literature.

Contents:

Distributional properties of financial ratios, predictability of the accrual- and cash flow-based financial statement items, and economic interpretation of financial ratios.

Mode of delivery:

Face-to-face –teaching in form of lectures, seminars and student's presentations.

Learning activities and teaching methods:

Lectures and seminars 24 h, term paper 40 h, self-study 96 h. The term paper is completed as a group work and presented and discussed in the class.

Target group:

Major students.

Prerequisites and co-requisites:

The required prerequisite is the understanding of financial reporting and financial analysis. Therefore, the recommended prerequisite is the completion of the following course prior enrolling for the course unit: 721137S International Financial Reporting.

Recommended optional programme components:

Not applicable.

Recommended or required reading:

Rees, B. (1995). Financial Analysis. Prentice Hall. Reading package.

Assessment methods and criteria:

The assessment criteria of the course unit is based on the learning outcomes of the course unit. Assessment covers exam and term paper (a group work) including the term paper presentations and discussions.

Grading:

The course utilizes a numerical grading scale 1-5. In the numerical scale zero stands for a fail.

Person responsible:

Professor Petri Sahlström.

Working life cooperation:

Not applicable.

Other information:

The number of students is limited.

721190S: Advanced Firm Valuation, 6 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Kallunki Juha-Pekka

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 ECTS credits.

Language of instruction:

English.

Timing:

Period D. It is recommended to complete the course during the Master's programme's 1st Spring semester.

Learning outcomes:

After passing the course students can use different firm valuation methods, can identify advantages and disadvantages of these methods, and can assess their usability in different valuation situations. Student can also analyze the determinants of the value creation of the firm, and can complete advanced analyses of profitability, financial leverage and growth of the firm.

Contents:

Lectures, exercises, and case discussions and presentations

Mode of delivery:

Face-to-face teaching, case presentations and discussions.

Learning activities and teaching methods:

32 h of lectures, 8 h of exercises and class discussions/student, case works 50 h , self-study 70 h.

Target group:

Major students.

Prerequisites and co-requisites:

The required prerequisite is the completion of the following courses prior to enrolling for the course unit: 721137S International Financial Reporting.

Recommended optional programme components:

Not applicable.

Recommended or required reading:

Penman, S. A. (2004). Financial Statement Analysis and Security Valuation. McGraw-Hill; research articles; and cases.

[Check the availability of course material from this link.](#)

Assessment methods and criteria:

Exam and case works.

Grading:

The course utilizes a numerical grading scale 1-5. In the numerical scale zero stands for a fail.

Person responsible:

Professor Juha-Pekka Kallunki.

Working life cooperation:

Not applicable.

Other information:

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721956S: Alternative Investments, 6 op

Voimassaolo: 01.08.2010 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Joenväärä

Opintokohteen kielet: English

ECTS Credits:

6 ECTS credits / 160 hours of work.

Language of instruction:

English.

Timing:

Period D.

Learning outcomes:

Upon completion of the course, the student knows the recent stylized facts about the performance of alternative asset classes. The student understands the risk and return characteristics of alternative asset classes and how to use alternative assets in portfolio management.

Contents:

Tradeable instruments, commodities, hedge funds, real estate.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises. Independent studying.

Target group:

Major students in finance. The course is also available for the students, who need to complete their 60 ECTS credits minor in finance.

Prerequisites and co-requisites:

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Recommended optional programme components:

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Recommended or required reading:

Material provided by the instructors.

Assessment methods and criteria:

Exam.

Grading:

1-5.

Person responsible:

Juha Joenväärä

Working life cooperation:

-

Other information:

The number of students is limited.

721383S: Asset Pricing, 6 op

Voimassaolo: 01.08.2008 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Joenväärä

Opintokohteen kielet: English

ECTS Credits:

6 ECTS credits / 160 hours of work.

Language of instruction:

English.

Timing:

Period C.

Learning outcomes:

Upon completion of the course, the student will be able to state the theoretical foundations for asset pricing models, derive the stochastic discount factor and asset pricing models, empirically test these models using various methods, describe and empirically show evidence of some stylized facts of stock returns, analyze mutual fund performance and performance persistence.

Contents:

Market completeness, law of one price and discount factors, CAPM and various factor models, cross-sectional regressions, joint tests of significance, Fama-MacBeth procedure, mutual funds' alphas and persistence.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises. Independent studying.

Target group:

Major students in finance. The course is also available for the students, who need to complete their 60 ECTS credits minor in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Lecture notes; Cochrane: Asset Pricing; other assigned literature.

Assessment methods and criteria:

Final exam.

Grading:

1-5.

Person responsible:

Juha Joenväärä

Working life cooperation:

-

Other information:

The number of students is limited.

721963S: Corporate Finance, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Markku Vieru

Opintokohteen kielet: English

Leikkaavuudet:

721922A Theory of Corporate Finance 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Period C

Learning outcomes:

Upon completion of the course, the student understands the key concepts of corporate finance theory. The student is able to analyze the capital structure and payout decisions, motivations behind mergers and acquisitions, and the effects of conflicts of interest between different corporate stakeholders on corporate decision making.

Contents:

Signaling theory, agency theory, optimal capital structure, dividend policy, mergers and acquisitions.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises, including article presentations.

Target group:

Major students in finance. Elective for major students in accounting. The course is also available for the students, who need to complete their 25/60 ECTS credits minor in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

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Recommended or required reading:

Lecture notes; Copeland, Weston & Shastri: Financial Theory and Corporate Policy.

Assessment methods and criteria:

Final exam.

Grading:

1-5

Person responsible:

Markku Vieru

Working life cooperation:

No

Other information:

The number of students is limited.

721958S: Empirical Research in Finance I, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Perttunen, Jukka Olavi

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Periods A-B

Learning outcomes:

Upon completion of the course, the student understands the nature of empirical research and is able to write a literature review of a specified topic in finance. The student knows current research topics in finance and the availability of empirical databases for financial research. The student is able to conduct basic empirical analyses of financial data using Excel and SAS.

Contents:

The nature of empirical research, writing of a literature review, writing of a research report, current research topics in finance, finance databases, Excel modeling, basics of SAS-programming.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

60 hours lectures and exercises. Independent studying.

Target group:

Major students in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Materials provided by instructors.

Assessment methods and criteria:

The required minimum participation rate is 80% (48 hours). The student has to write a 1) literature review of an assigned research topic in finance, and complete a home exercise in both 2) Excel modeling and 3) SAS-programming. The three assignments are graded with the scale 1-5. The final grade of the course is the arithmetic mean of the three subgrades.

Grading:

1-5

Person responsible:

Jukka Perttunen

Working life cooperation:

No

Other information:

The number of students is limited.

721959S: Empirical Research in Finance II, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Joenväärä

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Periods C-D

Learning outcomes:

Upon completion of the course, the student is able to formulate an empirical research design for a specified research problem in finance. The student knows the essential methods of measurement in empirical finance research. The student is able to independently analyze empirical financial data using SAS and R.

Contents:

Empirical research design, building and analyzing empirical data matrices, reporting of estimation results, risk estimation, portfolio optimization, portfolio performance measurement, SAS-programming, R- programming.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

60 hours lectures and exercises. Independent studying.

Target group:

Major students in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Materials provided by instructors.

Assessment methods and criteria:

The required minimum participation rate is 80% (48 hours). The student has to 1) conduct an empirical analysis and write a short research report of an assigned research topic in finance, and complete a home exercise in both 2) SAS-programming and 3) R-programming. The three assignments are graded with the scale 1-5. The final grade of the course is the arithmetic mean of the three subgrades.

Grading:

1-5

Person responsible:

Jukka Perttunen

Working life cooperation:

No

Other information:

The number of students is limited.

721961S: Entrepreneurial Finance, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Juha Joenväärä

Opintokohteen kielet: English

Leikkaavuudet:

721371A Entrepreneurial Finance 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Period B

Learning outcomes:

Upon completion of the course, the student will understand the issues faced when financing entrepreneurial ventures. The student will also understand the interaction between the strategy of a start-up venture and its financing. The course will focus on the decisions from the entrepreneur's point of view, while also exposing students to the financier's point of view.

Contents:

entrepreneur vs self-employed, the amount, timing, and source of funding, the structure of the funding, agency issues

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and independent studying.

Target group:

Major students in finance. The course is also available for the students, who need to complete their 60 ECTS credits minor in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Materials provided by instructors.

Assessment methods and criteria:

Final exam

Grading:

1-5

Person responsible:

Juha Joenväärä and Tuomas Takalo

Working life cooperation:

No

Other information:

The number of students is limited.

721954S: Financial Econometrics, 6 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Hannu Kahra

Opintokohteen kielet: English

ECTS Credits:

6 ECTS credits / 160 hours of work.

Language of instruction:

English.

Timing:

Period C.

Learning outcomes:

Upon completion of the course, the student knows how to estimate and evaluate univariate and multivariate models for asset returns and return volatilities, how to estimate and evaluate asset pricing models using the Generalized Method of Moments (GMM). The student learns that return predictability is the major stylized fact driving modern finance.

Contents:

ARIMA and VAR-models, unit roots and cointegration, univariate and multivariate GARCH, Generalized Method of Moments (GMM), estimation of the consumption based CAPM (CCAPM) using GMM, predictability of asset returns, volatilities and return covariances/correlations.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises. Independent studying and group work.

Target group:

Major students in finance. Elective for major students in economics. The course is also available for the students, who need to complete their 60 ECTS credits minor in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:

Lecture notes and the material provided by instructor.

Assessment methods and criteria:

Final exam (70%) and exercises (30%).

Grading:

1-5.

Person responsible:

Hannu Kahra

Working life cooperation:

-

Other information:

The free R statistical program is used in the demonstrations and exercises. The number of students is limited.

721960S: Financial Risk Management, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Perttunen, Jukka Olavi

Opintokohteen kielet: English

Leikkaavuudet:

721198A Derivative Securities 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Period D

Learning outcomes:

Upon completion of the course, the student knows how to use derivative securities in financial risk management. The student understands the pricing of derivatives and is able to use the main analytical and numerical techniques for that purpose.

Contents:

Forward contracts, forward rate agreements, interest rate swaps, futures contracts, options, derivatives pricing models, numerical pricing techniques.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises, including two voluntary intermediate exams. Independent studying.

Target group:

Major students in finance. The course is also available for the students, who need to complete their 25/60 ECTS credits minor in finance.

Prerequisites and co-requisites:

-

Recommended optional programme components:

-

Recommended or required reading:
Lecture notes; Hull: Options, Futures, and other Derivatives.

Assessment methods and criteria:
During the course, there are two voluntary intermediate exams, which replace the two weakest answers in the final exam, respectively. The final exam is mandatory and consists of five questions or problems.

Grading:
1-5

Person responsible:
Jukka Perttunen

Working life cooperation:
No

Other information:
The number of students is limited.

721957S: Fundamentals of Finance, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Perttunen, Jukka Olavi

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:
6 credits / 160 hours of work

Language of instruction:
English

Timing:
Period A

Learning outcomes:
Upon completion of the course, the student understands the basic concepts of finance and is capable of applying them in financial problem solving.

Contents:
Interest rates and discounting, corporate cash flows, operating leverage, financial leverage, diversification, bond valuation, equity valuation, financial risk management and derivative securities, asset-liability management.

Mode of delivery:
Face-to-face teaching.

Learning activities and teaching methods:
36 hours lectures and exercises, including two voluntary intermediate exams. Independent studying.

Target group:
Major students in finance. Elective for major students in accounting. The course is also available for the students, who need to complete their 25/60 ECTS credits minor in finance.

Prerequisites and co-requisites:
-

Recommended optional programme components:
-

Recommended or required reading:
Lecture notes.

Assessment methods and criteria:
During the course, there are two voluntary intermediate exams, which replace the two weakest answers in the final exam, respectively. The final exam is mandatory and consists of five questions or problems.

Grading:
1-5

Person responsible:
Jukka Perttunen

Working life cooperation:
No

Other information:

The number of students is limited.

721070S: Globally Responsible Business, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Jan Hermes

Opintokohteen kielet: English

Leikkaavuudet:

ay721070S Globally Responsible Business (OPEN UNI) 6.0 op

Voidaan suorittaa useasti: Kyllä

Ei opintojaksokuvauksia.

721333S: Industrial Organization, 6 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Maria Kopsakangas-Savolainen

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits/160 hours of work

Language of instruction:

English

Timing:

Period 2A the course will be lectured in academic year 2015-2016.

Learning outcomes:

Upon successful completion of this course, student is be able to analyze and evaluate models of competitive, oligopolistic, and monopoly markets and understand how price and non-price competition among firms affect economic welfare. He/she should be able to understand the market conditions where regulation is needed and analyze different form of regulation methods. He/she should be also able to use game theory in analyzing firms' strategic decisions and be able to intelligently speculate the motives of real world pricing and other decisions of the firms. Student understands the effect of asymmetric information on the optimal agreements.

Contents:

Functioning of imperfect competition, monopoly, cartel, price discrimination, non-linear pricing , product differentiation, principles of game theory, strategic behavior, role of market entrance , innovations and research and development, optimal agreements in situations of asymmetric information.

Mode of delivery:

Face-to-face teaching

Learning activities and teaching methods:

24 hours of lectures, home assignments (including problem sets and essay).

Target group:

Second year Master's students

Prerequisites and co-requisites:

Intermediated Microeconomics, Mathematical economics

Recommended optional programme components:

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Recommended or required reading:

Cabral, L.M.B. Introduction to Industrial Organization. MIT Press. 2000; Shy, Oz: Industrial Organization. Theory and Applications. MIT Press. 1995; Kopsakangas-Savolainen and Svento, Modern Energy Markets. Springer 2012; other literature announced later.

Assessment methods and criteria:

Home assignments, written examination.

Grading:

The course utilizes a numerical grading scale 1-5. In the numerical scale zero stands for a fail.

Person responsible:

Professor Maria Kopsakangas-Savolainen

Other information:

The number of students is limited.

721962S: International Finance, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Hannu Kahra

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Period A

Learning outcomes:

Upon completion of the course, the student knows how to price risk-free cash flows, determine exchange rates under interest parity conditions, apply standard term structure fitting models and estimate standard continuous time models for short term interest rate dynamics. The student understands how to evaluate bonds and foreign exchange rates in making decisions about trading and hedging strategies.

Contents:

Bond prices and foreign exchange rates, spot and forward rates, discount factors, arbitrage and trading, yield to maturity, curve fitting, term structure models, interest rate risk measures, hedging, models for instantaneous interest rates, interest rate parity conditions.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises. Independent studying and group work.

Target group:

Major students in finance. Elective for major students in economics. The course is also available for the students, who need to complete their 60 ECTS credits minor in finance.

Prerequisites and co-requisites:

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Recommended optional programme components:

-

Recommended or required reading:

Lecture notes and the material provided by instructor.

Assessment methods and criteria:

Final exam (70%) and exercises (30%).

Grading:

1-5

Person responsible:

Hannu Kahra

Working life cooperation:

No

Other information:

The free R statistical program and Excel are used in the demonstrations and exercises. The number of students is limited.

721950S: Master's Thesis, Finance, 30 op

Opiskelumuoto: Advanced Studies

Laji: Diploma thesis

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opintokohteen kielet: Finnish, English

ECTS Credits:

30 ECTS credits / 800 hours of work.

Language of instruction:

English.

Timing:

Periods A-D.

Learning outcomes:

The students will become familiar with conducting independent academic research and be able to apply academic research methodology in the field of finance.

Contents:

The aim of the course is to support students writing their master's thesis.

Mode of delivery:

Face-to-face tutoring.

Learning activities and teaching methods:

Seminar sessions 20h, one-on-one discussions with the instructor 20h, self-study 760h.

Target group:

Students majoring in finance.

Prerequisites and co-requisites:

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Recommended optional programme components:

-

Recommended or required reading:

-

Assessment methods and criteria:

Participation in seminars, accepted research reports.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1-5.

Person responsible:

Professor Jukka Perttunen and Senior Lecturer Hannu Kahra

Working life cooperation:

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Other information:

The number of students is limited.

721952S: Portfolio Management, 6 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Hannu Kahra

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 ECTS credits / 160 hours of work.

Language of instruction:

English.

Timing:

Periods A-D.

Learning outcomes:

Upon completion of the course, the student is able to apply the basic quantitative methods of modern portfolio management in practice. The student is able to explain the main challenges in portfolio management, and to implement portfolio management strategies.

Contents:

Mean-variance optimization, expected utility maximization, estimation error, risk-based asset allocation, ETFs and futures instruments.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours lectures and exercises. Independent studying and group work.

Target group:

Major students in finance. The course is also available for the students, who need to complete their 60 ECTS credits minor in finance.

Prerequisites and co-requisites:

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Recommended optional programme components:

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Recommended or required reading:

Roncalli, Thierry, Introduction to Risk Parity and Budgeting, Chapman & Hall/CRC, 2014; Pfaff, Bernhard, Financial Risk Modelling and Portfolio Optimization with R, Wiley 2013. Ilmanen: Expected Returns: An Investor's Guide to Harvesting Market Rewards, Wiley.

Assessment methods and criteria:

Assessment methods include a portfolio management project. Each student implements his/her personal portfolio management based on modern portfolio choice techniques.

Grading:

1-5.

Person responsible:

Hannu Kahra

Working life cooperation:

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Other information:

The number of students is limited.

721951S: Portfolio Performance Analysis, 6 op

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Tuomo Haapalainen

Opintokohteen kielet: English

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 ECTS credits / 160 hours of work.

Language of instruction:

English.

Timing:

Period B.

Learning outcomes:

After the course the student is able to use basic return and holdings based techniques in portfolio performance analysis. Upon completing the course the student is able to apply techniques in practice using the SAS software.

Contents:

The term “performance analysis” covers the techniques that are implemented to study the results of portfolio management. These range from simple performance measurement to performance attribution. Performance measurement consists of measuring the difference in the value of the portfolio, or investment fund, between the beginning and the end of the evaluation period. Performance attribution breaks down the return to attribute the exact contribution of each phase in the process to the overall portfolio performance, thus allowing the manner in which the result was obtained to be understood. The intermediate step is performance evaluation, which explains how the measured return was obtained and whether the result is due to skill or luck.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

Lectures 24h, computer lab exercises 16h, teamwork and self-study 116h, exam 4h. SAS software package is applied in the course.

Target group:

Students majoring in finance.

Prerequisites and co-requisites:

Basic knowledge of SAS software is recommended before participating to the course; course Introduction to Market Analysis (721363P) could be helpful. Basic knowledge of econometrics is also recommended; course Introduction to Econometrics (721060A) is recommended before participating to the course.

Recommended optional programme components:

Contents of the course are related to the following courses: Introduction to Market Analysis (721363P), Portfolio Management (721952S), and Asset Pricing (721383S).

Recommended or required reading:

Aragon & Ferson: Portfolio Performance Evaluation, Now Publishers; material provided by the instructor.

Check availability from [here](#).

Assessment methods and criteria:

Assessment methods include oral presentation in a group and exam. The assessment criteria are based on the learning outcomes of the course.

Read more about [assessment criteria](#) at the University of Oulu webpage.

Grading:

1-5.

Person responsible:

Researcher Tuomo Haapalainen.

Working life cooperation:

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Other information:

The number of students is limited.

721066S: Principles of Econometrics, 6 op

Voimassaolo: 01.08.2014 -

Opiskelumuoto: Advanced Studies

Laji: Course

Vastuuyksikkö: Oulu Business School

Arvostelu: 1 - 5, pass, fail

Opettajat: Sanna Huikari

Opintokohteen kielet: English

Leikkaavuudet:

721060A Introduction to Econometrics 5.0 op

Voidaan suorittaa useasti: Kyllä

ECTS Credits:

6 credits / 160 hours of work

Language of instruction:

English

Timing:

Period 1B.

Learning outcomes:

After completing the course the student is familiar with theoretical background of the standard methods used in empirical analyses and with regression analysis relevant for analyzing economic data. In addition, the student can interpret and evaluate the outcomes of empirical analysis. Furthermore, he/she has basic knowledge of using EViews software in econometric analyses.

Contents:

Statistical basics of econometrics, and especially the use of basic econometric models in the analysis of different economic phenomena. In addition to regression models adapted to cross-section data, the course familiarizes students with basic features of time series analysis. The main focus is on dealing with the basic concepts of econometrics and familiarizing with the use of EViews software.

Mode of delivery:

Face-to-face teaching.

Learning activities and teaching methods:

36 hours of lectures, 18 hours of exercises, exam 4 hours, preparing for the lectures, exercises and exam 102 hours.

Target group:

First year Master's students in Economics, Accounting and Finance.

Prerequisites and co-requisites:

It is highly recommended that the student has already passed the course 806116P Basic Methods in Statistics 1 (in Finnish: 806116P Tilastotiedettä kauppatieteilijöille, previously: 806109P Tilastotieteen perusmenetelmät 1) or has elementary knowledge of statistics and probability theory.

Recommended optional programme components:

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Recommended or required reading:

Stock James H., Watson Mark W.: Introduction to Econometrics, 2. or 3. edition. Other material announced during the lectures.

Assessment methods and criteria:

Written exam.

Grading:

The course utilizes a numerical grading scale 1-5. In the numerical scale zero stands for a fail.

Person responsible:

Professor Rauli Svento, Doctoral student Sanna Huikari

Working life cooperation:

No

Other information:

The number of students is limited.