КУРСЫ MIF

Программа «Мастер финансов» Учебный год 2023 – 2024

Вечерняя программа РЭШ «Мастер финансов» предлагает курсы по финансам, анализу данных и менеджменту. Каждый курс (1 кредит) состоит из семи трехчасовых лекций в течение семи недель с экзаменом или проектом. Курсы читают профессора с Ph.D. и опытом работы в топовых бизнес-школах мира и ведущие эксперты из бизнеса.

Время: 19:00-22:00 в будни или в субботы Место: Новотель-Киевская (ул. Киевская, д.2) + zoom

Для получения дополнительной информации напишите нам @<u>mif@nes.ru</u> или позвоните по телефону/ватсап/телеграмм @ <u>+7-991-339-1950</u>.

101. Foundations of Finance (required course, 1 credit, RUS) Instructor: Prof. Sergey Kovbasyuk, Ph.D. TSE, NES professor *Dates: TO BE ADDED; Exam Prerequisites: -*



Российская

школа

экономическая

This course is the core finance course. It provides an overview over the most common types of financial securities and modern financial markets, covering core topics of corporate finance and investments: the time value of money, opportunity cost, arbitrage pricing, bond valuation, stock valuation, portfolio theory, asset pricing, derivatives, and market efficiency.

102. Data Analysis in Python (required course, 1 credit, RUS) Instructor: Evgenij Kosarev, Yandex

Dates: TO BE ADDED; Exam Prerequisites: -

Data analysis is an integral part of modern finance. The goal of the course is to teach you how to work with Python, a popular open-source software for analyzing data, presenting results, and making informative decisions based on analytics. You will learn main techniques and hands-on tools for business applications which will be useful for many other courses in the program and most likely in your career more generally.

103. Math Refresher (0.5 credit, RUS) Instructor: Prof. Pavel Katyshev, NES professor *Dates: TO BE ADDED; Exam Prerequisites: -*

This half-module course is devoted to the review of the probability theory as well as some other concepts from mathematics often used in finance. It includes four three-hour classes and several seminars. This course will be useful for those who need to brush up their math skills and prepare themselves for more advanced material of the curriculum.

104. Career in Finance (1 credit, RUS) Instructors: Alexandra Polimatidi, HR Banking-Finance **Anna Obizhaeva,** Ph.D. MIT Sloan, NES professor *Dates: TO BE ADDED; No Exam Prerequisites: -*

This course will help to broaden your knowledge of career opportunities in finance and facilitate your career development. You will get practical advices on how to talk to recruiters and prepare for interviews. You will also learn about importance of thinking about your career strategically. The course will consist of two in-class lectures and five onsite company visits that will give you an opportunity to learn about companies' work environment and possibly meet your future employer. The list of companies will include a wide range of employers from both the private and public sectors. The course aims mostly at the second-year students, but the first-year students are also welcome.









105. Data Visualization in Business (1 credit, RUS) Instructor: Kim Voronin

Dates: Thu Sept 7, 14, 21, 28, Oct 6, 13, 20; No Exam (project) Prerequisites: -

The goal of the course is to teach non-designers how to visualize information in a nicely looking, understandable way. This course will help you to learn how to prepare professionally looking presentations about projects, financial reports, and other material. You will also learn how to create interactive dashboards. Knowledge of data analytics tools for business intelligence is valuable in financial community.

106. Financial Regulation (0.5 credit, RUS) Instructor: Alexey Lobanov, к.э.н., ИЭ РАН; HSE Banking institute *Dates: TO BE ADDED; Exam Prerequisites: 101, 301*

Micro- and macroprudential regulation has been a pillar of financial stability and also a driving force behind innovations in the financial industry. The course gives an overview of the regulatory architecture after the Global financial crisis of 2008–2009 centered around banks as fragile and opaque financial intermediaries. Through discussions and case studies, you will learn about the design as well as pros and cons of the Basel capital adequacy and liquidity requirements, deposit insurance, and bank system structure.

201. Investments (required course, 1 credit, RUS) Instructor: Prof. Anna Obizhaeva, Ph.D. MIT Sloan, NES professor *Dates: TO BE ADDED, module 2; Exam Prerequisites: 101*

This course uses a combination of cases, lectures, and class discussions to examine how money is managed by professional money managers. The course involves a mixture of finance and economics, theory and hands-on exercises in Python. It will review classical topics in the field of investments and introduce frontier research on the subject. The course will touch on a number of public policy issues likely to be important for years to come and provide students with a framework within which these issues can be addresses in a useful manner.







202. Financial Accounting (required course, 1 credit, ENG) Instructor: Prof. Davide Cianciaruso, Ph.D. Northwestern, NES Professor *Dates: TO BE ADDED, module 2; Exam Prerequisites: -*

This course introduces you to fundamental accounting concepts and principles. It provides the skills necessary to understand the content of financial statements and how they interact with each other. You will also learn to construct and analyze basic financial statements. The goal is not to train you as an accountant but rather to help you become informed user of financial statements.

203. Modelling in Corporate Finance (0.5 credit, online, RUS) Instructor: Andrei Nagurnyi

Dates: Friday Nov 10, 17; Dec 8, 15, module 2; No Exam (project) Prerequisites: 101

The key objectives of the course are to discuss standards and techniques accepted by corporate finance professionals worldwide, to utilize standard functionality of MS Excel for easy-going modelling, and to develop a project financial model applying the rules and techniques learned. The course helps to master modelling techniques widely used in financial industry.

204. Macroeconomics (1 credit, RUS) Instructor: Konstantin Styrin, Ph.D. Harvard University, Bank of Russia *Dates: TO BE ADDED, module 2; Exam Prerequisites: -*

The course provides an overview of main concepts in macroeconomics. The topics include national income accounting, economic growth, inflation, exchange rates, capital flows, and others. The course covers basic macroeconomic models as well as macroeconomic policy issues for developed and developing economies.





205. Business Statistics (0.5 credit, RUS) Instructor: Prof. Marat Salikhov, Ph.D. INSEAD, NES professor Dates: TO BE ADDED, module 2; Exam Prerequisites: 102

Data analysis and statistical methods lie at the core of sound financial

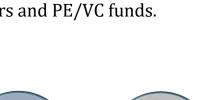
decision-making. Which factors determine the company's probability of default? How to forecast the company's revenue in the next quarter? This course will equip you to address these and other critical financial questions by providing a solid foundation in statistical analysis for business and finance applications. Through hands-on learning, you will gain fundamental skills in statistical estimation, hypothesis testing, and regression analysis.

206. Venture Capital in China: Valuation and Deals Structuring (0.5 credit, ENG) Instructor: Prof. Viktar Fedaseyeu, Ph.D. Boston College, CEIBS professor, China Dates: Tue Oct 31, Nov 7, 14, module 2; No Exam (project) Prerequisites: 101, 102

The purpose of this course is to examine how firms design strategies and raise funds to accelerate growth in a competitive environment such as China. We will start by developing a framework to analyze the sources of firms' competitive advantage as well the economic forces driving value creation. We will then study the methods used in the valuation of early-stage firms and examine the agreements between entrepreneurs and PE/VC funds.

207. Public Speaking (1 credit, RUS) Instructor: Yury Maisky, ToastMasters and Irina Suvorova, ToastMasters, DTM Dates: TO BE ADDED, module 2; No Exam (project) Prerequisites: -

This course will help you to improve your public speaking skills. You will learn useful tricks of how to train your voice, how to use pauses and gestures, how to structure your speech, how to speak on stage and not to be afraid of speaking in front of the camera, and a lot more. You will learn effective ways of how to introduce yourself, speak about your project or idea, and improvise.





301. Derivatives (required course, 1 credit, RUS) Instructor: Prof. Yerkin Kitapbaev, Ph.D. University of Manchester, Khalifa University Professor, Abu Dhabi, UEA *Dates: TO BE ADDED, module 3; Exam Prerequisites: 101, 102, 201*

This is an introductory course to the theory and practice of financial engineering and derivatives. It will cover forwards and futures contracts, binomial and Black-Scholes-Merton models for option pricing, hedging and replication of derivatives, implied and historical volatility, volatility surface, and other topics. The course is especially relevant to students interested in financial markets and securities trading.

302. Corporate Finance (required course, 1 credit, ENG) Instructor: Prof. Pavle Radicevic, Ph.D. UNSW, NES professor *Dates: TO BE ADDED, module 3; Exam Prerequisites: 101, 202*

The goal of this course is to familiarize you with the introductory-level topics in corporate finance and to discuss the most important financial decisions of a firm. The core of the course is the analysis of capital budgeting, capital structure decisions and risk management. The capital budgeting topics will cover various techniques of evaluating and comparing projects. The capital structure topics will examine the choice of sources of finance for a firm; in particular, the choice between debt and equity financing and how does this relate to the firm's investment evaluation.

303. Financial Econometrics (1 credit, RUS) Instructor: Prof. Olga Kuzmina, Ph.D. Columbia GSB, NES professor Dates: TO BE ADDED, module 3; No Exam (project) Prerequisites: 101, 102

This course introduces econometric techniques and methods used for the analysis of crosssectional and time-series financial data. It explicitly focuses on the distinction between the two main uses of data analysis: prediction and causal inference. The topics include randomized experiments, linear regressions, interpretation of regression results, endogeneity, models with limited dependent variables, and introduction to forecasting. The course helps to acquire important intuition behind econometric techniques and equips students with hands-on tools for analyzing data.







304. Risk Management (1 credit, RUS) Instructor: Prof. Alexei Goriaev Ph.D. Tilburg, NES professor Dates: TO BE ADDED, module 3; Exam Prerequisites: 101, 201

management strategies in practice and the role of CRO in firms.

This course introduces main tools in risk management. These tools are presented in the context of a holistic framework of the enterprise-wide risk management, which includes identification, evaluation, treatment, and monitoring of risks. The core focus is on measuring market and credit risk using Value at Risk (VaR) as well as other metrics. Business cases are used to highlight important issues in implementation of risk

305. Banks, Financial System and Central Banking (1 credit, RUS) Instructor: Ksenia Yudaeva, Ph.D. MIT, Bank of Russia Dates: TO BE ADDED, half in module 3 and (!) half in module 4

The course covers policy topics in macroeconomics and finance with focus on major issues faced by central banks in Russia and around the globe. Topics include monetary economics, crises management, regulation, central banking among others with case studies and practical examples. The course is opened to MAE, BAE, and MIF students. It will be held at Skolkovo campus with the possibility to connect via zoom.

306. FinTech (1 credit, online, RUS) Instructor: Sergei Ivliev, к.э.н., Vlinder Dates: TO BE ADDED, module 3; No Exam (project) Prerequisites: 101

Prerequisites: 101, 204

The course is designed to give a helicopter view of the digital assets' ecosystem emerged after the introduction of the Bitcoin in 2009. You will learn about blockchain protocols, token issuance, cryptocurrency exchanges, decentralized finance (DeFi) and decentralized autonomous organizations (DAO) applications. Along the way, you will get introduced to the world of the modern cryptography.





401. Derivatives: Applied course (1 credit, RUS)

Instructor: Roland Grinis Ph.D. Oxford, MPTI Dates: TO BE ADDED, module 4; No Exam (project) Prerequisites: 101, 201, 301

This applied course builds upon a core derivatives course. It equips students with handson tools on how to model derivatives and properly calculate risks involved. The topics include modelling stochastic volatility and calibration of volatility surface, analysis of financial securities in interest rates and credit markets as well as calculations of various valuation adjustments (xVA) in cross-currency hybrid models. The course is especially relevant to students interested in quantitative finance.

402. Private Equity and Venture Capital (1 credit, RUS) Instructor: Dmitry Lukin Ph.D. INSEAD, Rhodiola Capital *Dates: TO BE ADDED, module 4; Exam Prerequisites: 101, 102, 201, 202, 301, 302*

The course is designed to provide a real world understanding of the private equity marketplace from the perspective of the private equity investor. It helps to understand key issues in the private equity financing process and the interaction between entrepreneurs and private equity investors, ways to employ corporate finance principles (such as contingent claims and contracting theory) for the analytical valuation of new ventures and buyouts as well as the structure and essential institutional features of the global private equity industry.

403. Machine Learning in Business (1 credit, RUS) Instructor: Ivan Stelmakh, Ph.D. Carnegie Mellon University, NES professor *Dates: TO BE ADDED, module 4; No Exam (project) Prerequisites: 102*

The course provides an advanced intro to machine learning. In the first part of the course (depth), we will demystify several classical ML algorithms by understanding their theoretical underpinnings and solving practical problems. In the second part of the course (breadth) we will get fascinated by the power of deep learning and discuss additional recent topics such as bias and fairness in ML.







404. Corporate Hedging (1 credit, ENG) Instructor: Prof. Pavle Radicevic, Ph.D. UNSW, NES professor *Dates: TO BE ADDED, module 4; Exam Prerequisites: 101, 102, 201, 202, 301, 302*

This course will introduce you to risk management from the perspective of non-financial corporations. You will learn:1) what risks companies should manage and why, 2) how risk management policies should be developed and organized, and 3) how the various types of risk can be measured and managed. In the process, you will gain critical new insight into the operational problems that today's corporations face, and how financial market conditions affect firms' hedging policies.

405. Law Regulations for Securities Market (1 credit, RUS) Instructor: Prof. Anton Selivanovsky, к.ю.н., HSE professor Dates: TO BE ADDED, module 4; No Exam (project) Prerequisites: 101, 102, 201, 202, 301

This course introduces you to financial instruments and market participants in securities market. You will study specifics of main types of agreements and legal disputes. The course will focus on risks facing by market participants and involve discussion of cases and examples from practice, mostly concerning Russian businesses.

501. Fixed Income (1 credit, online, RUS) Instructor: Vladimir Krasik Ph.D. NYU, Head of Financial Risk, Revolut *Dates: TO BE ADDED, module 5; Exam Prerequisites: 101, 201, 301*

This course provides a solid framework for the practical analysis of fixed income instruments: bonds, forwards/swaps and credit instruments. While the primary focus is the valuation of cash and derivative instruments and their real-world applications, the course also covers the general principles of the credit analysis and basic concepts of the portfolio management. Upon completing the course students should be able to calculate bond and swap prices, duration as well as understand swap and zero curves, credit spreads and basic credit derivatives, floating rate and inflation-linked bonds, structured bonds, bond indices and many other fixed income topics.







502. Advanced Corporate Finance (1 credit, RUS) Instructor: Dmitry Lukin Ph.D. INSEAD, Rhodiola Capital *Dates: TO BE ADDED, module 5; No Exam (project) Prerequisites: 101, 102, 202, 301*

This course is designed as a continuation of a core corporate finance course and focuses on understanding financing and investment policies in a firm. Using both lectures and case studies, this course applies corporate finance theory to applications that include capital budgeting, cost of capital, valuation, dividend policy, raising capital, mergers and acquisitions as well as real options. The course is taught as a combination of lectures and HBS case studies.

503. Banking (1 credit, RUS)

Instructor: Vladimir Snorkin, Sber Dates: TO BE ADDED, module 5, Exam Prerequisites: 101, 102, 201, 202, 301, 302

This class covers some key themes in the commercial banking industry, including topics of value creation, pricing, risk management, and banking regulation. The goal is to provide a framework for understanding the sources of the revenue and fragilities of commercial banks. The topics include capital management, liquidity management, managing FX and IR risks as well as discussion of new trends in banking industry related to development of ecosystems, applications of AI and ML, and others.

504. AI in Business (1 credit, RUS) Instructor: Prof. Darya Dzyabura, Ph.D. MIT Sloan, NES Professor Dates: TO BE ADDED, module 5; No Exam (project) Prerequisites: 102

From product design and innovation, to brand metrics and advertising effectiveness, firms are increasingly making their decisions based on data and analytics. This course provides an overview of artificial intelligence methods and their applications in business, with emphasis on problems in marketing. The course uses data-based assignments and business cases to introduce core marketing concepts and methods.







505. Managerial Decision Making (1 credit, RUS) Instructor: Iya Malakhova

Dates: NOT OFFERED IN 2023-2024, module 5 (NEXT TIME IN 2024-2025) Prerequisites: -



Many economic theories assume rational behavior of agents. Yet, the reality is different. The course addresses the question why do we have such a hard time making good choices. The goal is to understand how to establish decision-making process to produce good decisions, overcoming our psychological biases, reasons for irrationalities, etc. Upon completion of the course, you will be able to design decision-making process that would help you to improve choices not just for business reasons but also for personal live.

МіF РЭШ Календарь на 2023-2024

Модуль 1: 1 сентября 2023 - 29 октября 2023 Модуль 2: 30 октября 2023 - 24 декабря 2023 Модуль 3: 8 января 2024 – 3 марта 2024 Модуль 4: 4 марта 2024 – 28 апреля 2024 Модуль 5: 29 апреля 2024 – 30 июня 2024

Цена: 87,000 руб. / курс 1 кредита и 43,500 руб. / курс 0,5 кредита

МІҒ вебсайт: <u>ссылка</u>

