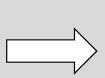


KEY FACTS

The MSc offers its prospective students an advanced education in finance, banking, financial accounting, insurance and quantitative risk management.

The MSc response to industry's strong demand in experts with quantitative expertise in risk management, finance, insurance and their interface



The MSc is a combination of economic theory for finance with mathematical methods (probability theory, statistics, computational methods) to quantify risk arising from, but not limited to, financial, economic and insurance applications

Strong basis in academic theory is crucial for long-term success, however, theory is symbiotic with application: the MSc mix theory and practice, academic lectures and interaction with finance practitioners and empirical sessions KEY VALUES FOR THE STUDENT

 Quantitative skills and data analysis

✓ Teaching style

- Relationship with leading companies in the financial industry
- English as an opportunity!
- International experiences

https://infogram.com/guant-guide-2021-top-25-table-• 1h7v4pwwm98xi6k



IN 2021 **MSC WAS RANKED IN THE TOP 25** FINANCE QUANT **MASTER IN** THE WORLD

Rank	University/institution	Class size	Accept. rate	Students accepting	Industry- affiliated lecturers	Employment rate	Salary (US\$, adjusted)
1	Princeton University (Bendheim Center for Finance)	20	6%	61%	21%	100%	115,000
2	Baruch College, City University of New York	21	8%	73%	64%	100%	116,917
3	New York University (Courant Institute of Mathematical Sciences)	42	17%	28%	92%	95%	115,000
4	ETH Zurich/University of Zurich	70	15%	53%	84%	100%	109,661
5	University of California, Berkeley (Haas School of Business)	96	17%	80%	14%	99%	115,132
6	Columbia University (Columbia Engineering)	85	11%	70%	68%	95%	106,833
7	Imperial College London	55	12%	58%	33%	90%	115,000
8	University of Toronto	30	13%	45%	62%	95%	95,000
9	Cornell University	45	17%	53%	53%	95%	101,500
10	Carnegie Mellon University	44	19%	47%	20%	99%	108,846
11	New York University (Tandon School of Engineering)	23	33%	16%	91%	94%	90,719
12	Georgia Institute of Technology	34	15%	34%	0%	100%	94,513
13	North Carolina State University	20	21%	29%	17%	94%	89,513
14	University of California, Los Angeles (Anderson School of Management)	61	24%	28%	6%	96%	97,500
15	University of Chicago	84	27%	20%	55%	95%	101,920
16	Paris-Sorbonne University/Ecole Polytechnique	72	25%	92%	31%	77%	94,211
17	Columbia University	70	26%	35%	16%	95%	102,335
18	Paris-Diderot University	50	28%	78%	20%	95%	67,000
19	EPFL	46	33%	91%	4%	91%	104,000
20	Collegio Carlo Alberto, University of Turin	14	56%	34%	44%	84%	N/A
21	University of Washington	41	47%	32%	67%	92%	79,111
22	University of Amsterdam	25	63%	66%	14%	90%	N/A
23	Fordham University	31	59%	11%	50%	91%	89,812
24	Paris-Saclay University	32	18%	58%	47%	90%	50,000
25	University of Florence	40	24%	128%	19%	89%	42,000

Top 25 quant finance master's programmes, ranked

https://www.risk.net/quantmasters-2022

IN 2022 MSC IS RANKED IN THE RANGE 25_{TH}-**50**_{TH} **BEST** FINANCE QUANT **MASTER IN THE WORLD**



Student will be prepared for high profile careers across a wide range of sectors: in financial institutions, insurance and reinsurance companies, banks, accounting firms, private equity firms, management consulting, data analytics companies, industry, management and academia.

> Risk manager Asset manager Actuary Financial analyst Financial consultant Investment banks Market analyst Trader in financial markets Data scientist

INDUSTRIES: companies who have employed recent graduates from the MSc include

PLACEMENT

ABN AMRO ACCENTURE ALPIQ AVIVA AXPO AZIMUT BCE BHGE BLOOMBERG BNP PARIBAS CAPGEMINI DELOITTE ENEL

ERNST & YOUNG FINDOMESTIC GENERALI GENERAL ELECTRIC GOLDMAN SACHS HSBC IFIS BANK IFIGEST ILLIMITY BANCA IMI KPMG MARSH MENARINI MILLIMAN PROMETEIA P&G PWC BANCA SELLA SDG GROUP UNICREDIT WIDIBA YOOX FIRM Employement rate 82% in 1 year (benchmark Atenei area geografica = 69%; Benchmark Atenei nazionali = 74%)

 ✓ FIRM Employement rate = 90% in 3 years

ADMISSIONS

Prospective students must have:

- a I level degree in:

Economics/Business, Maths, Computer Science, Engineering, Statistics, Physics

- B2 or higher level English certificate

For the a.y. 2023-24

- Early Submission

31/05/2023 deadline submission application for assessment evaluation

- Regular Submission

31/07/2023 deadline submission application for assessment evaluation

 Late Submission (only for EU students)
 31/10/2023 deadline submission application (Italian NULLAOSTA) for assessment evaluation

COMMON TRACK							SHOP			
66 ECTS	Course	SSD	ECTS	compulsory		6 EC	TS			
	Quantitative Finance and Derivatives (B019184)	Secs-s/06	9	yes						
	Computational Finance (B019185)	Secs-s/06	6	yes				1	- 1	
	Corporate Finance (B018849)	Secs-p/09	6	yes			ernship (B019480)			
	Corporate Governance and	Secs-p/08	12	yes			rkshop in Corporate fina		SECS-	n collaboration with DELOITTE
	Financial Institutions (B019219) Computational Economics (B028630)	Secs-p/11 Secs-p/02	6	yes			24220)		P/09	
-	European Capital Market Law (B026820)	lus/05	6	yes		Wo	rkshop in Machine Learning	g for	SECS-	
-	Financial Statement Analysis (B019215)	Secs-p/07	6			Fin	ance and Insurance (B03108	3)	S/06	
_	Econometrics of Financial Markets (B019215)	Secs-p/07 Secs-p/05	9	yes	MASTER					
	Quantitative Risk Management - with MATLAB	Secs-p/05	9	yes			rkshop (B019482)			 Workshop in Financial Risk
	modulus (B019125)	Secs-s/06	6	yes	THESIS		TK310p (B019482)			Management in collaboration with Prometeia
	Final examination (B019218)		18	yes	18 ECTS				,	 ✓ CFA Research Challenge
							Optional courses – Choose one	from:	(networks
BUILD				BUI	LDING		Insurance and Risk models – mod.A (B028051)	Secs-s/06		CHOICE
BLOG					OCKS		Pensions, solvency and financial reporting – mod.A (B028056)		-	9 ECTS
12 EC	Insurance and Risk models			9	ECTS		Portfolio choice and Bond Markets – mod.A (B029676)	Secs-s/06		
	(B028050)	ecs-s/06 12		Choose one from:		.	(B020932)	Secs-p/09	9	
	Pensions, solvency and financial reporting – with Phyton modulus			Merger and Acquisition Valuati (B020932)	on Secs-p/09 9		Bank Management and sustainable finance	Secs-p/11		
	(B028053)			Bank Management and sustai finance	inable Secs-p/11			SECS-P/07	-	
	Portfolio choice and Bond Markets (B029675)			Private Equity Risk Managemer due-diligence Lab	nt and Secs-p/09		Mathematics for Economics (B020834) Private Equity Risk Management and	SECS-S/06 Secs-p/09	-	
							due-diligence Lab			
							Other courses			

Track: CORPORATE FINANCE and BANKING

BANKING MANAGEMENT & SUSTAINABLE FINANCE PRIVATE EQUITY RISK MANAGEMENT AND DUE-DILIGENCE LAB INTERNATIONAL ACCOUNTING Workshop in Corporate Finance (Deloitte) CFA Research Challenge

MAIN TRACKS

Track: INSURANCE AND RISK MANAGEMENT

INSURANCE AND RISK MODELS PENSIONS, SOLVENCY AND FINANCIAL REPORTING Workshop in Financial Risk Management (Prometeia)

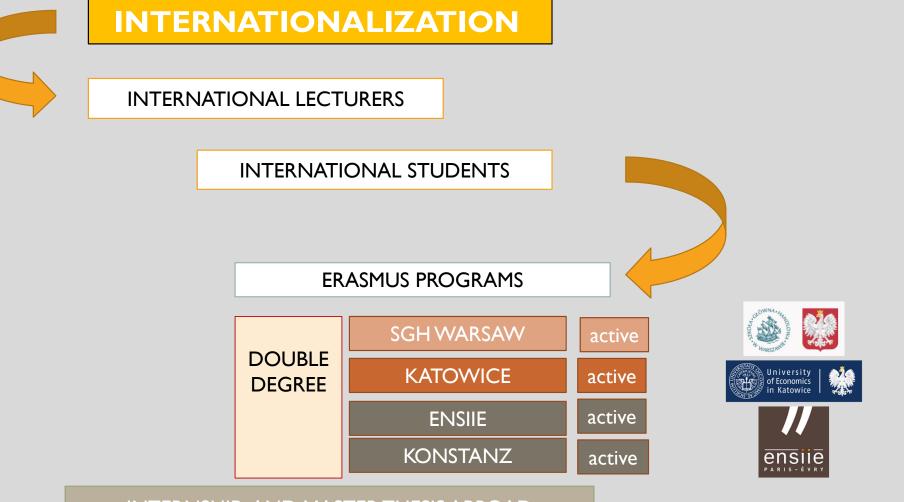
Track: QUANTITATIVE FINANCE

PORTFOLIO CHOICE & BOND MARKETS Workshop in Machine Learning for Finance Workshop in Financial Risk Management (Prometeia)

		Few Numb	oers for th	ne MSc FiRM				
	a.y. 2017-18	a.y. 2018-19	a.y. 2019-20	a.y. 2020-21	a.y. 2021-22	A.y. 2022- 23		
Applications (foreign students)	217 (158)	265 (200)	290 (212)	306 (215)	320 (220)	430 (340)		
Enrolled students	55	40	53	56	85	52	Greater than average employement rate of Italian Universities (74%)	
Erasmus students	27,1%	35%	34%	-	-	-		
Placement	83,3%	85% (88,5% in 3 years)	86% (88,8% in 3 years)	83,3% (94,4% in 3 years)	82% (90% in 3 years)	-		
DD	5 Out/ 3 In	6 Out/ 4 In	4 Out/ 4 In *	4 Out/ 4 In *				

SCHOLARSHIP FINANCED BY LEADING COMPANIES IN FINANCIAL INDUSTRY

- 2 scholarship financed by Prometeia
 2 Scholarship financed by Deloitte Financial Advisory
- 2 scholarship financed by Ernst & Young



INTERNSHIP AND MASTER THESIS ABROAD

DOUBLE DEGREE (DD) CALL FOR APPLICATIONS JAN/FEB

Admission requirements

Can apply for the DD: - by the deadline of the announcement, students regularly enrolled in the first year of the Master course in Finance and Risk Management of the University of Florence;

- at the time of submitting the application, students who have already achieved the exams according to call for application (different exams depending on the different DD applied).



IYEAR AT UNIVERSITY OF FLORENCE

Quantitative Risk Management Computational Finance Corporate Finance Quantitative Finance & Derivatives Econometrics of Financial Markets Insurance and Risk Models International & Financial Economics Workshop o Internship 6 ECTS



IIYEAR AT SGH UNIVERSITY

Business Law Financial and Tax Law Managerial Economics Bank Management Business Ethics Advanced Financial Accounting (ACCA) M&A of enterprises Auditing Financial crisis Financial Stability Management Accounting Monetary Policy

one among: Risk in Insurance Company Derivatives Markets Market and Operational Risk Management

Thesis

60 ECTS





First year - UNIFI

ETCS	Exam Unifi	semester
6	Corporate Finance	I
6	Computational Finance	I
9	Quantitative Finance & Derivatives	I
6	European Market Law	I
12	Corporate Governance and Financial Institutions	П
9	Econometrics of Financial Markets	П
6	Financial Statement Analysis	П
6	Workshop	II

	Second year - KATOWICE	
	Exam Katowice	ETCS
	Module 7: Risk Management for Banks	12
	Module 8: Asset and Liability Management and Risk Management for Insurance	9
	Choose between:	
	(1) (4+2=6) Programming and database + Equity and Foreign Exchange Derivatives	
DOUBLE	(2) Integrated Aspects of Asset Management	6
DEGREE	(3) 6 ECTS between: Module 4: Risk Measurement OR Module 5: Asset Management	
PROGRAM	Advanced Issues in Corporate Finance 6 ECTS Fixed Income and Credit Derivatives 4 ECTS	10
FiRM	Erasmus exams 2nd semester * (eg Global Financial Markets)	5
	Seminar Master Dissertation	18
KATOWICE		60
	Final	120
	and states	

University |



DOUBLE DEGREE PROGRAM

FIRM AT UNIFI + FINANCIAL ENGINEERING AT ENSIIE- PARIS





- Ecole Nationale Superieure d'Informatique pour l'Industrie et l'Entreprise
- https://www.ensiie.fr/
- Financial engineering training





DD COURSES

IYEAR AT UNIVERSITY OF FLORENCE

Quantitative Finance & Derivatives	9
Computational Finance	6
Corporate Finance	6
European Capital Market Law	6
International Financial Economics	6
Corporate Governance and Financial Institutions	12
Financial Statement Analysis	6
Quantitative Risk Management	6
Workshop	3

60 ECTS

II YEAR AT ENSIIE

Numerical Pricing Methods and Models Calibrations	6	Free Choice (under propaedeutic constraints):	9
Financial English	3	Stochastic Analysis 4	
Computer Project	3	XVA Analysis and "IT quant" techniques with Python and Cuda GPU 5	
Choose between	6	Derivatives 5	
Stochastic Calculus 6		Block Chain and Fintech 3	
or		High Frequency Data and Order Books 4	
Risk Management 6		Model for Corporate Finance and Insurance	
Choose 12 ECTS between	12	3	
Machine Learning 5		Or other courses in the program	
Computer Programming 5			
Finance of Insurance 4			
Deep Learning/ Neural Network 3		Master Thesis	12
Term Structure Models 3			
Financial Markets and Actuarial Science 3			
Financial Econometrics 2			
Project Cutting Hedge	3		
TOEIC training	3	60 ECTS	
Choose between	3		
Asset Management 3			
Stochastic Control 3			

DD with University of Konstanz (MSc in International Financial Economics), Germany

IYEAR AT UKON

First year at UKON			
Modules at UKON	ECTS		
Advanced Econometrics	10		
Advanced Microeconomics I	10		
Advanced Macroeconomics I	10		
Risk Management	8		
Seminar	6		
Elective courses from the areas International Financial Economics AND Econometrics and Applied Economics*	16-20 ECTS**		
Overall year 1	at least 60		
**(only 16 ECTS will be transferred to UNIFI)			

60 ECTS

II YEAR AT UNIFI

Second year at UNIFI			
Modules at UNIFI	ECTS		
Corporate Finance	6		
Portfolio Choice and Bond Markets	12		
Quantitative Finance and Derivatives	9		
Financial Accounting	6		
Choose one between: - Private Equity Risk Management & Due Diligence Lab - Banking Management & Sustainable Finance*	9		
Master Thesis	18		
Overall year 2	60		
Year 1 + 2	at least 120		
*students can choose either Bank Management (at UKON) or Banking Management & both	& Sustainable Finance (at UNIFI		

60 ECTS

ALUMNI NETWORK

Ex FIRM Alumni in top jobs and relevant positions in Italy and abroad, created an international network that has brought employment opportunities directly to our current students as former graduates and their employers look to hire the very best.

The MSc encourages all alums to connect with them and to keep us updated as their careers progress.

ALUMNI INAUGURAL EVENT

Simone Biondi Rowan Dartington, London Silvia Sanna Deloitte Financial Advisory Alessio Brini PhD Scuola Normale Superiore Fiammetta Menchetti Phd University of Florence Niccolò Brandini Findomestic Spa - BNP Paribas Cosimo Zangari MPS capital services Andrea Venuta Azimut

TO CONTACT US

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Double Degrees: Prof.ssa Maria Elvira Mancino <u>mariaelvira.mancino@unifi.it</u>

Student Academic Office: Dott.ssa Barbara Brunelli english.msc@economia.unifi.it

International Desk: internationaldesk@unifi.it FIRM Web Site

https://www.frm.unifi.it/