

Ahmedabad
University

M S

Master of Science

Quantitative Finance

**Pioneering Careers in
Finance with Data Analytics**

www.ahduni.edu.in/amsom



Ahmedabad University

About Us

- Established in 2009
- Leading private, non-profit research university
- Liberal education focused on interdisciplinary learning, practice orientation, and research thinking
- Prepares critical thinkers who are analytically equipped, practically oriented, and contextually aware global citizens
- Six schools and nine centres bringing liberal arts, sciences, and the professions to engage together in knowledge creation for addressing complex challenges of the society.
- Curriculum offering majors that merge the boundaries of disciplines to prepare students for the new economy.



Amrut Mody School of Management of Management

The Amrut Mody School of Management at Ahmedabad University offers wide-ranging, multi-faceted management education through undergraduate, graduate, doctoral, and certificate programmes. Designed closely with industry partners, the programmes balance rigorous practice and strong conceptual education. The programmes advance the understanding of management practice through interdisciplinary inquiry and prepare responsible leaders with a contextual understanding who can develop impactful, innovative solutions for complex societal challenges.

Amrut Mody School of Management ■ School of Arts and Sciences ■ School of Engineering and Applied Science
Bagchi School of Public Health ■ Undergraduate College ■ The Graduate School

Ahmedabad Design Lab ■ Centre for Heritage Management ■ Centre for Inter-Asian Research
Centre for Learning Futures ■ Global Centre for Environment and Energy ■ Sahyog: Centre for Promoting Health
International Centre for Space and Cosmology ■ The Climate Institute ■ VentureStudio

Message from the Dean

Welcome to the Amrut Mody School of Management at Ahmedabad University.

The Masters of Science in Quantitative Finance (MSQF) programme at AMSOM trains students in Financial Modelling, Asset Management, Risk Mitigation, and Investment Banking. It is a two-year post graduate programme that builds on concepts and tools from mathematics, financial markets, and economics. All students complete internships of 6-8 weeks at the end of the first academic year. The Career Development Centre works closely with the students to enable them to avail of internship and final placement opportunities.

Please go through the details of this rigorous programme that will open the door to rewarding careers as Advisors, Analysts, and Consultants.

Professor Shobha Das

Dean
Amrut Mody School of Management
PhD (University of Minnesota)



Why Study

Master of Science in Quantitative Finance at Ahmedabad University?

A graduate degree in Quantitative Finance at Ahmedabad University helps students:

- Master economics, financial markets functioning, and their mathematical underpinnings;
- Develop a strong background in programming with applications in finance;
- Gain a contextual understanding within the interdisciplinary education framework with a broad choice of electives;
- Delve into a programme blending advanced techniques in finance, economics, and analytics; and
- Apply theory in real-life situations through mandatory projects and internships.



Master of Science in --- Quantitative Finance

The unique graduate programme teaches advanced quantitative techniques essential for Financial Modelling, Asset Management, Risk Mitigation, and Investment Banking careers. Set within a liberal arts university ecosystem that encourages and nurtures interdisciplinarity, the MSQF programme is designed at the intersection of mathematics, financial markets, statistics and computational methods. Coding skills, a pre-requisite for the programme, help students assimilate real-world applications of quantitative techniques. The programme is also aimed at strengthening the students' theoretical and empirical understanding while enabling them to develop proficiency in relevant programming techniques that are the key for a successful career.

Programme Highlights ---

- A two-year, full-time programme.
- Programme content designed to meet industry demands and expectations.
- Builds strong theoretical foundations of mathematical finance and financial markets. Additional courses enhance competence in computational finance.
- Enables application of the quantitative techniques in a real-world context for addressing empirical anomalies.
- Entails participation in a mandatory internship module.



Programme Overview

Components

Following are the key components of the MSQF programme:

- 1. Term Zero:** This preparatory course in communication, excel and mathematics, preparing students for the rigour of the entire programme.
- 2. Core Courses:** Since the MSQF programme is a blend of mathematics, statistics, computational methods, and financial markets, the core courses of the programme are geared towards building a strong foundation in these areas.
- 3. Disciplinary Core Courses:** These build on the programme core courses and prepare students to make informed choices in selection of electives in the second year.
- 4. Disciplinary Electives:** These specific sets of electives are offered to the MSQF students in their second year to build competency in key areas for better equipping students for the finance industry, in general, and the investment banking vertical, in particular.
- 5. Free Electives:** Considering the broader liberal arts university ecosystem and our enduring commitment to interdisciplinarity, students can opt for “free electives” that cut across disciplines based on their interests and availability. Such free electives add richness and variety to the student experience.
- 6. Summer Internship:** This involves an eight-week long stint at a firm that students need to undertake on completion of the first year. The objective of this internship is to help students apply the knowledge they have gained in addressing empirical issues and anomalies pertaining to financial markets.
- 7. Skill-building Foundation Modules:** These modules expose students to courses that will build the requisite skill sets for making meaningful progress and facilitating transition into industry.

Credits

Programme Core **25**

Disciplinary Core **12**

Summer Internship **3**

Disciplinary Electives **24**

Free Electives **12**

**Skill-building
Foundation Modules** **4**

TOTAL **80**

Programme Core

Descriptive and Inferential Statistics

ANOVA and Regression

Intermediate Microeconomics

Intermediate Macroeconomics

Mathematical Methods for Economics

Analytics Lab

Security Analysis and Portfolio Management

Financial Markets and Institutions

Econometrics

Corporate Investments and Value Creation

Disciplinary Core

Derivatives and Risk Management

Financial Modelling

Fixed Income Securities

Modelling Randomness in Financial Markets

Elective Courses

Electives are classified as Disciplinary and Free Electives. The disciplinary electives are determined, keeping in view the primary impetus behind the programme and its attendant contours. Students must take eight courses to fulfil the requirements for disciplinary electives.



Disciplinary Elective

Strategic Corporate Finance

Behavioural Finance

Corporate Restructuring: Mergers and Acquisitions

International Finance

Business Valuation

Financial Econometrics

FinTech Ventures

Bank Management

Venture Capital and Private Equity

Algorithmic Trading and Market Microstructure

Summer Internship

Advanced Business Analytics

Skill Building Foundation Modules

Managerial Communication

Python for Finance

Math Tutorials



Faculty

Bhargav Adhvaryu

Technology, Operations and
Decisions Sciences
PhD (University of Cambridge)

Md Shahrukh Anjum

Technology, Operations and
Decisions Sciences
PhD (Indian Institute of
Management Bangalore)

Dinesh Barot

Technology, Operations and
Decisions Sciences
PhD (Gujarat University)

Gaurav Bhattacharya

Economics and Public Policy
PhD (Jawaharlal Nehru
University)

Aranya Chakraborty

Economics and Public Policy
PhD (McGill University)

Pankaj Chandra

Technology, Operations and
Decisions Sciences
PhD (The Wharton School,
University of Pennsylvania)

Sugat Chaturvedi

Economics and Public Policy
PhD (Indian Statistical Institute,
Delhi)

Rakesh Chaturvedi

Economics and Public Policy
PhD (Pennsylvania State
University)

A Damodaran

Economics and Public Policy
PhD (University of Kerala)

Sabyasachi Das

Economics and Public Policy
PhD (Yale University)

Amit Das

Technology, Operations and
Decisions Sciences
PhD (University of Minnesota)

Satish Deshpande

Finance, Accounting and Control
Executive Fellow Programme in
Management (Indian School of
Business)

Supratim Das Gupta

Economics and Public Policy
PhD (University of South
Carolina)

Poonam Dugar

Finance, Accounting and Control
PhD (Gujarat University),
Chartered Accountant

Loyimee Gogoi

Technology, Operations and
Decisions Sciences
PhD (Dibrugarh University)

Tanya Jain

Finance, Accounting and Control
PhD (Indian Institute of
Management Bangalore)

Hetal Jhaveri

Finance, Accounting and Control
PhD (Sardar Patel University)

Vaibhav Kadia

Finance, Accounting and Control
PhD (Ganpat University)

Amarlal H Kalro

Technology, Operations and
Decisions Sciences
PhD (University of Minnesota)

Narendra Nath Kushwaha

Finance, Accounting and Control
PhD (Indian Institute of
Management Tiruchirappalli)

Vinodh Madhavan

Finance, Accounting and Control
PhD (Golden Gate University)

Jinal Parikh

Technology, Operations and
Decisions Sciences
PhD (Dharamsinh Desai
University)

Parag Patel

Finance, Accounting and Control
PhD (Gujarat University)

Chakravarthi Rangarajan

Economics and Public Policy
PhD (University of Pennsylvania)

Abhitesh Ranjan

Economics and Public Policy
PhD (University of Minnesota)

Rahul Rao

Economics and Public Policy
PhD (Indian Institute of
Management Bangalore)

Binny Rawat

Finance, Accounting and Control
PhD (Charusat University,
Gujarat)

Moumita Roy

Economics and Public Policy
PhD (George Mason University)

Subhankar Saha

Technology, Operations and
Decisions Sciences
PhD (Indian Institute of
Management Bangalore)

Kinshuk Saurabh

Finance, Accounting and Control
Fellow Programme in
Management (Indian Institute of
Management Ahmedabad)

Faculty

Saamil Shah

Finance, Accounting and Control
MBA (Maharaja Sayajirao
University of Baroda)

Rahul Singh

Economics and Public Policy
PhD (Indian Institute of
Management Bangalore)

Amit Singh

Technology, Operations and
Decisions Sciences
PhD (Indian Institute of
Technology Kharagpur)

Abhinandan Sinha

Technology, Operations and
Decisions Sciences
PhD (Indian Statistical Institute,
Kolkata)

Mita Suthar

Economics and Public Policy
PhD (Gujarat University)

Nimit Thaker

Finance, Accounting and Control
MCom (Gujarat University)

Devanath Tirupati

Technology, Operations and
Decisions Sciences
PhD (Massachusetts Institute of
Technology)

Vibha Tripathi

Finance, Accounting and Control
PhD (Gujarat University)

Ishita Tripathi

Economics and Public Policy
PhD (Louisiana State University)

Bhaktida Trivedi

Technology, Operations and
Decisions Sciences
PhD (Gujarat University)

Jeemol Unni

Economics and Public Policy
PhD (Gujarat University)

Sonal Yadav

Economics and Public Policy
PhD (Gujarat University)



Scan the QR
Code to learn
more about
our faculty.



Career Prospects

Upon successful completion of the Master of Science in Quantitative Finance programme, students can explore diverse roles in the following areas, among others:

Quantitative analysis	Advisory and consulting services	Synthetic derivatives and risk management
Investment banking	Credit rating agencies	Treasury operations

The programme also opens up opportunities to pursue projects, internships and careers at GIFT City, Gandhinagar.

Career Development Centre

The Career Development Centre (CDC) at Ahmedabad University prepares students for successful careers by offering access to significant resources enabling them to explore, discover, develop, and pursue personal and professional goals, while facilitating their connection to the corporate world in alignment with those goals. MSQF students can tap such active connections to obtain summer internships at the end of their first year. The CDC also facilitates final placement of students and prepares them for successful careers by augmenting their technical and technological skill sets.

The CDC is thus committed to working with students across various levels of career development, ranging from interest to assessments, networking opportunities to job searching strategies, and all other requirements. Its role is discussed in detail below.

Role of the CDC

The objective of the CDC is to:

- Help build a solid and active University-industry interface;
- Enhance students' career readiness through coaching, counselling, instruction, innovative programming, and aligning with prevalent industry trends;
- Organise various forums for students and faculty to engage with the industry, such as guest lectures, career masterclasses, workshops, seminars, conferences, and projects;
- Provide experiential learning opportunities to students through internships;
- Assist students in achieving their career goals by connecting them with recruiters; and
- Promote a sense of responsibility among students for lifelong career development efforts through exploration, education, and experience.

How Can the CDC Help You?

The CDC offers support to students in the following areas:

- Career counselling, guidance and planning
- Career assessment and testing
- Career development workshops and interactions with industry leaders
- Industry engagement (guest lectures, seminars, and research projects, among other things)
- Placement and internship assistance
- Campus-to-corporate training, including:
 - o Professional grooming sessions;
 - o Personality development workshops;
 - o Communication proficiency interventions;
 - o Resume writing workshops;
 - o Mock group discussions and personal interviews;
 - o Quantitative, analytical and logical practice tests; and
 - o Aptitude practice tests.

Student Testimonials

The curriculum's strong focus on building knowledge of the financial markets added to my internship with the finance company, wherein my responsibilities included those professionals working in the traditional investment banking role. Several courses, especially the ones on financial modelling and financial markets, strengthened my foundation, made me aware, and trained me for this role. The internship further taught me the workings of the corporate sector, helped in skill upgradation, analyse complex global industry markets, develop a deep knowledge of investment valuation topics, and gave me the opportunity to work on pitchbooks. I believe this experience and hard work have also translated into a pre-placement offer from the company I interned for.



Raj Manwani

Class of 2025

Ahmedabad University



My interest in finance was ignited during my undergraduate studies, bringing theoretical subject matter to life. This inspired me to learn the core of finance, and Ahmedabad University, with its focus on quantitative methodologies, rigorous research, and application-based learning, emerged as the ideal choice for taking forward this learning. Additionally, the diverse peer group at the University contributes to a contextual understanding of the subject by offering immense exposure to different ideas s perspectives. Ahmedabad University also provides a comprehensive learning environment for building an enriching academic experience.

Shree

Class of 2026

Ahmedabad University





Accreditations and Awards

- Recognised by University Grants Commission to award degrees under Section 22 of the UGC Act, 1956, in 2010.
- Recognised by the Government of Gujarat as a Centre of Excellence.
- Accredited with an 'A' grade by the National Assessment and Accreditation Council (NAAC).
- Awarded a 5-star rating, the highest awarded in the Gujarat State Institutional Rating Framework (GSIRF) for 2021-22 by the Knowledge Consortium of Gujarat (KCG), Department of Education, Government of Gujarat.
- Recognised by the UGC under Section 12(B) of the UGC Act, becoming one of the few private research universities to have been awarded this recognition for select research universities.
- Recognised as a Highly Commended University for Teaching and Learning Strategy of the Year in the Times Higher Education (THE) Awards Asia 2023.
- Awarded the Association to Advance Collegiate Schools of Business (AACSB) Innovations That Inspire Award 2023 for its Foundation Programme.
- Awarded Gold Rating by the Indian Green Building Council for achieving the Green Building Standards at our University Centre.
- Awarded the Royal Institute of British Architects (RIBA) International Award for Excellence 2024 for our University Centre.

Campus Infrastructure

AMSOM offers students the chance to engage with experts through international conferences, lectures, and seminar series. These events provide deep insights into business landscapes at the local, national, and global levels. Students also gain practical skills while organising and leading the management student fest, Concourse, which hones their abilities in leadership, organisation, and execution.

The Ahmedabad University campus offers a modern, sustainable, and fully networked environment designed to enrich the learning experience. The state-of-the-art infrastructure at the University includes modern and technically equipped classrooms, laboratories, a central library, and other learning resources. It provides comprehensive facilities for student well-being, including accommodation, sports facilities, cafes, spaces for recreation, and a wellness centre.

The award-winning University Centre is a vibrant hub for exchange of ideas, informal meetings, and social events. The eco-friendly campus, characterised by a rich biodiversity, has implemented sustainability strategies to enhance resilience against extreme heat, reduce water runoff, and augment green spaces for the entire community.

Students interested in entrepreneurial pursuits can avail of facilities at VentureStudio, the University's incubation centre, which equips them with the know-how and tools to set up their own enterprise.

Student Housing

The Ahmedabad University student residencies offer high-quality, comfortable, and secure living accommodations. Committed to fostering a sense of community, the residencies celebrate diversity in ideas, lifestyles, and cultural practices, providing a true home-away-from-home experience.

Located within a one-kilometer radius of Ahmedabad University's Central Campus, the residencies offer air-conditioned accommodations on a sharing basis, subject to availability. Shared dining halls, gymnasiums, and recreational spaces are available for residents' convenience. The University also provides transportation to and from the campus. All residencies are under 24/7 security surveillance, with wardens, security guards, CCTV cameras, and on-call medical services ensuring residents' safety and wellbeing.

Life at Ahmedabad

At Ahmedabad University, learning extends beyond the classroom. Vibrant student clubs, cultural events, and a robust support system create a strong community. On campus, students receive the support and resources they need to succeed.

Located in the heart of Ahmedabad, India's first UNESCO World Heritage City, the University offers a unique blend of academic excellence and cultural experiences. The city's vibrant mix of tradition and modernity provides an inspiring backdrop for holistic education and exploration. The city brims with opportunities for students who can participate in inter-college competitions, music and performance festivals and explore ancient monuments, vibrant markets, and more.

Admissions

Eligibility

- Candidates with a Minimum 55% marks or equivalent CGPA across Class 10, Class 12/Diploma and bachelor's degree are eligible to apply. Final-year students graduating in 2025 are also eligible to apply.
- Candidates who have appeared for any one of the following entrance exams – CAT 2024, XAT 2025, NMAT 2024, CMAT 2025, GMAT 10th Edition, GMAT Focus Edition, GRE, GATE, JAM 2025, CUET-PG (COPQP10 or SCQP19)
- Candidates who haven't appeared for any one of the above entrance tests or have low scores can appear for AMSOM-PG Aptitude Test conducted online via Mettl. You can indicate this option in your application form.

Selection Process

- Eligible candidates can submit an online application form with a payment of INR 1200 as application fees (non-refundable).
- Candidates can submit their application without a score and update the entrance test scores by 15 May 2025.
- Shortlisted candidates will be called for faculty interaction on campus or online.

Fee Structure and Financial Aid

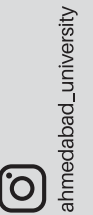
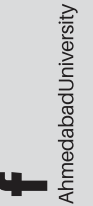


Please scan the QR code to view the fees and the financial aid.





**Ahmedabad
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Start Your Application Today