

Ahmedabad
University

MSc
Master of Science

Quantitative Finance



www.ahduni.edu.in

AMRUT MODY SCHOOL OF MANAGEMENT

Ahmedabad University

Recognised as

**CENTRE OF
EXCELLENCE**

by Education Department,
Government of Gujarat

NAAC-“A”

Accredited University



**GSIRF
2021 - 22**

Gujarat State Institutional Rating Framework

by Education Department,
Government of Gujarat

Pioneering Careers in Finance with Data Analytics



About Us

Ahmedabad University¹

- 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 eight 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

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.

Graduate Programmes

- Master of Business Administration
- Master of Science in Economics
- Master of Science in Quantitative Finance
- Master of Management Studies in Heritage Management



* The University Grants Commission, in its letter dated 28 July 2010 F. No. 8-13/2010(CPP-I/PU), has notified that Ahmedabad University, Navrangpura (Gujarat), has been established by an Act (No. 8 of 2009) of the State Legislature of Gujarat as a State Private University and is empowered to award degrees as specified by the University Grants Commission under Section 22 of the University Grants Commission Act 1956.



Why Study Master of Science in Quantitative Finance Programme 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.



Message from the Amrut Mody School of Management



Welcome to the Amrut Mody School of Management @ 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 Center 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

PhD (University of Minnesota)

Dean
Amrut Mody School of Management
Ahmedabad University



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.

Requirements

- Minimum Credits: 80 credits
- Minimum CGPA: 2.00.
- Completion Time: Minimum period of two years and a maximum period of four years.

Credits

Programme Core 25

Disciplinary Core 12

Summer Internship 3

Disciplinary Electives 24

Free Electives 12

Skill-building Foundation Modules 4

TOTAL 80.0

Programme Core

Course Title	Credit
Descriptive and Inferential Statistics	1.5
ANOVA and Regression	1.5
Intermediate Microeconomics	3.0
Intermediate Macroeconomics	3.0
Mathematical Methods for Economics	3.0
Analytics Lab	1.0
Security Analysis and Portfolio Management	3.0
Financial Markets and Institutions	3.0
Econometrics	3.0
Corporate Investments and Value Creation	3.0
TOTAL	25

Disciplinary Core

Course Title	Credit
Derivatives and Risk Management	3.0
Financial Modelling	3.0
Fixed Income Securities	3.0
Modelling Randomness in Financial Markets	3.0

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

Course Title	Credit
Strategic Corporate Finance	3.0
Behavioural Finance	3.0
Corporate Restructuring: Mergers and Acquisitions	3.0
International Finance	3.0
Business Valuation	3.0
Financial Econometrics	3.0
FinTech Ventures	3.0
Bank Management	3.0
Venture Capital and Private Equity	3.0
Algorithmic Trading and Market Microstructure	3.0



Free Electives

All other electives in the University ecosystem will qualify as free electives if a student meets the pre-requisite for such electives. In line with Ahmedabad University's overarching philosophy, students have the liberty to choose 5-level or 6-level courses to meet the requirement of 12 credits for free electives. For illustrative purposes, some of the courses that would qualify as free electives are mentioned in the table below, but this must not be considered as an exhaustive list.

Course Title	Credit
Advanced Business Analytics	3.0
Machine Learning for Policy	3.0
Introduction to Game Theory	3.0
Empirical Methods in Economics	3.0
Machine Learning	3.0
Sustainability, Business and Society	3.0
Corporate Governance	1.5

Summer Internship

Course Title	Credit
Advanced Business Analytics	3.0

Skill-building Foundation Modules

Course Title	Credit
Managerial Communication	1.5
Python for Finance	1.5
Math Tutorials	1.0

Faculty



**Gaurav
Bhattacharya**

Assistant Professor
PhD
(Jawaharlal Nehru University)



**Aranya
Chakraborty**

Assistant Professor
PhD
(McGill University)



Sugat Chaturvedi

Assistant Professor
PhD
(Indian Statistical Institute,
Delhi)



Rakesh Chaturvedi

Associate Professor
PhD
(Pennsylvania State
University)



Poonam Dugar

**Assistant Dean and
Assistant Professor**
PhD
(Gujarat University)



Amit Das

**Professor & Senior
Associate Dean,
Graduate Programmes**
PhD
(University of Minnesota)



Supratim Das Gupta

Assistant Professor
PhD
(University of South Carolina)



Sabyasachi Das

Associate Professor
PhD
(Yale University)



Tanya Jain

Assistant Professor
PhD
(IIM Bangalore)



**Narendra Nath
Kushwala**

Assistant Professor
PhD
(IIM Tiruchirappalli)



Faculty



Vinodh Madhavan

Associate Professor
PhD
(Golden Gate University)



Parag Patel

Senior Associate Dean
PhD
(Gujarat University)



Rahul Rao

Assistant Professor
PhD
(IIM Bangalore)



Abhitesh Ranjan

Visiting Professor
PhD
(University of Minnesota)



Moumita Roy

Assistant Professor
PhD
(George Mason University)



Kinshuk Saurabh

Associate Professor
Fellow Programme
in Management (IIM
Ahmedabad)



Abhinandan Sinha

Assistant Professor
PhD
(Indian Statistical Institute,
Kolkata)



Rahul Singh

Assistant Professor
PhD
(IIM Bangalore)



Ishita Tripathi

Assistant Professor
PhD
(Louisiana State University)



Vibha Tripathi

Assistant Professor
PhD
(Gujarat University)

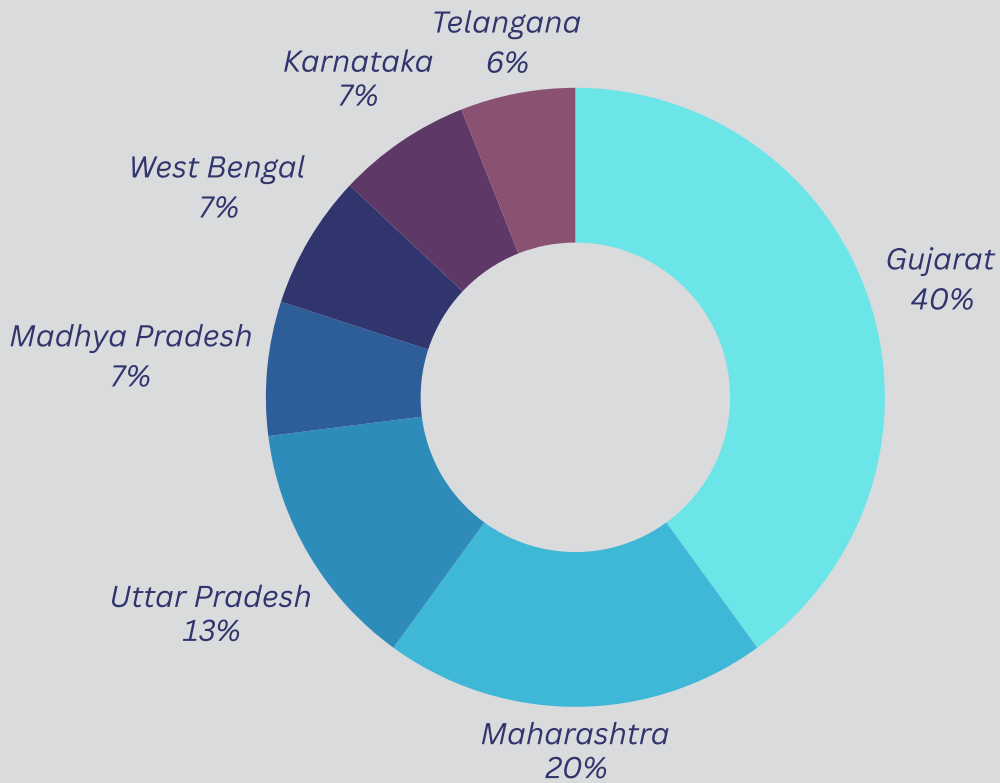


Pallavi Vyas

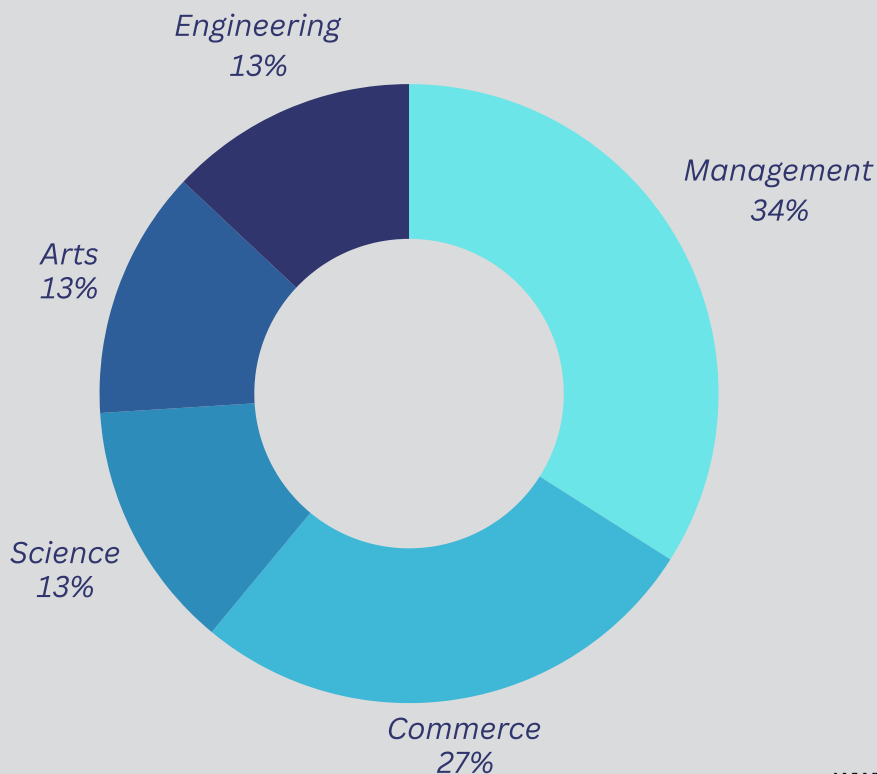
Associate Professor
PhD
(University of Chicago)

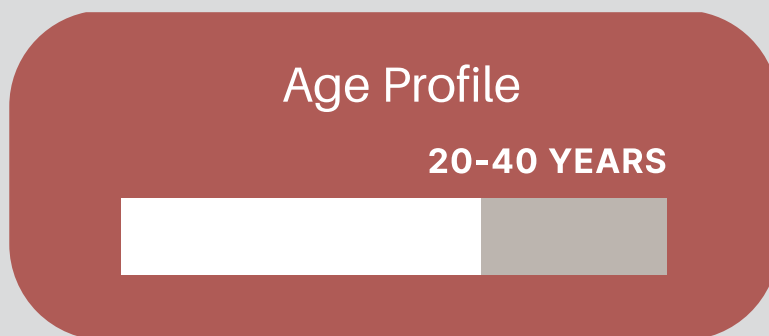
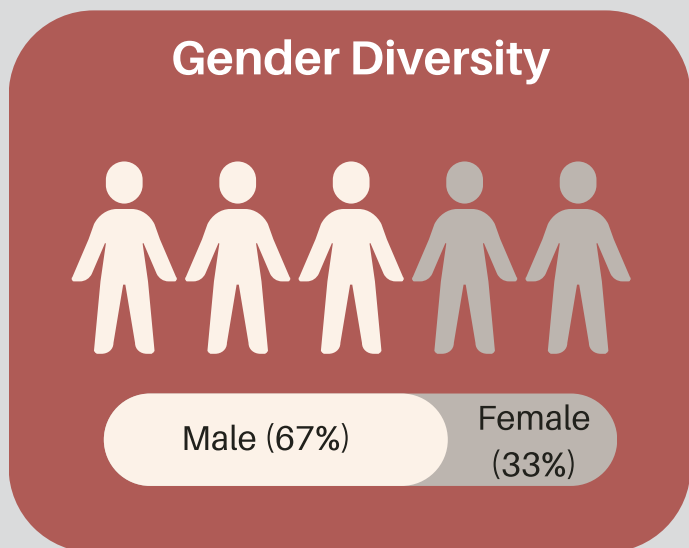
Class Profile

Geographic Diversity



Academic Diversity







Career Prospects

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

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

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

STUDENT TESTIMONIAL

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.

Students also pursued internship in several other firms such as National Stock Exchange, RATNAAFIN Capital, PISquare Investments, IIM Ahmedabad, Marwadi Shares and Finance Limited, and Fenil Financial Services to name a few.



Raj Manwani

Class of 2025
Ahmedabad University

Intern
Verity Knowledge Solutions

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 TESTIMONIAL

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

AHMEDABAD UNIVERSITY

Campus Infrastructure

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.

Accreditations and Awards

- 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.

Life at Ahmedabad

Fuel your talent with Ahmedabad University's student clubs and associations, designed and curated to facilitate participation in various co-curricular activities, academic associations, and social and cultural events. These clubs aim to enhance your university experience, enabling you to imbibe leadership qualities, create lifelong bonds, and connect with your peers based on shared interests. These clubs will help you hone your skills, nurture your interests, and build networks. The University hosts several academic, social, and cultural activities, providing a platform across programmes to showcase your intellectual and creative competencies.



Student Housing and Residential Life

Student Village, the Ahmedabad University student residency, offers all the facilities that a student needs or expects. It is committed to providing simple, comfortable, and secure living. The hostel symbolises the building of a community with respect for diversity in ideas, ways of living, food preferences, cultural practices, languages, and religions.

Located within a radius of one kilometre from Ahmedabad University's Central Campus, the hostel offers twin sharing, air-conditioned accommodations with shared dining halls, courtyard, and recreational spaces. The hostel is subject to a three-tier security network, including guards, CCTV surveillance, and door alarms. Additional facilities include laundry, transportation to and from the campus, on-call medical services, internet, and more.



Admissions

Eligibility

- Candidates who have attained a minimum of 55 per cent in their Class 10, Class 12, or equivalent results and an undergraduate degree are eligible to apply. Students graduating in 2025 can also apply.
- Candidates must have appeared for any one of the following entrance exams—CAT 2024, XAT 2025, NMAT 2024, CMAT 2025, GMAT and GRE.
- 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 31 March 2025.
- Shortlisted candidates will be called for faculty interaction on campus or online.
- Based on holistic assessment, offers will be made to deserving candidates.

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



FAQs

1. Which entrance test scores are accepted?

- Candidates who have appeared for one of the following entrance exams - CAT 2024, XAT 2025, NMAT 2024, CMAT 2025, and GMAT or GRE.

2. Can I apply with multiple test scores?

- Yes, you can apply with multiple entrance test scores, we shall consider the best score.

3. How can I opt for the AMSOM PG Test?

- You need to indicate your interest to appear for the AMSOM PG Test in your application form.
- Email: masters.admissions@ahduni.edu.in

4. Is there a fee for taking the online AMSOM PG Test?

- No.

5. Can I apply with a CAT 2023 score?

- No, only CAT 2024 scores are valid for admission to the Class of 2027.

6. Do I need to submit my application in one go?

- **No, you can save your application on the student portal and come back again to submit it.**

7. Will my work experience in family business be counted?

- Yes, your experience post-completion of your bachelor's degree in your family business will be considered.

8. I could not make it in the first round. Can I apply again?

- No, you can only apply once in the admission cycle.

9. Do you have any quotas?

- **No, admission is based on merit only.**

10. Can freshers apply?

- Yes, freshers can apply for the MSQF programme.

11. Does Ahmedabad University offer housing facilities for outstation students?

- Yes, we offer a student housing facility.

12. Is it mandatory for all students to stay at the student residences?

- No, it is not mandatory to stay at the student housing offered by Ahmedabad University

13. How far is the campus from the hostel?

- The housing facility is within 1 km.

14. How will I travel from the campus and residence, or vice versa? Will it be charged?

- A free bus shuttle service is available for the students.

15. Are scholarships available?

- Yes, every enrolled candidate will get a bursary of INR 75,000/- which will be adjusted against the second semester fees.
- In addition, students can also take up teaching assistantship (TA-Ship) for which you get an additional INR 50,000/- per year. This reduces your overall tuition fees by 50%.

16. Will I get a Master's degree or Diploma?

- Post completion of the required credits, you will be awarded a Master's degree from Ahmedabad University.

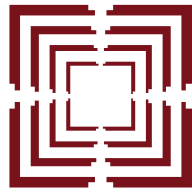
17. Does the MSQF programme offer industry connect?

- The MSQF curriculum is constantly updated to meet the evolving needs of the financial marketplace and to keep students abreast of the recent trends, milestones and developments. Students graduating with an MSQF degree would possess skillsets in the following areas.
 - Quantitative analysis/research
 - Investment banking
 - Advisory and consulting services
 - Credit rating agencies
 - Synthetic derivatives and risk management
 - Treasury operations
 - Analysis for big data vendors

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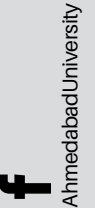
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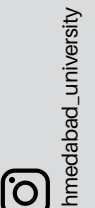
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Start Your Application Today