



INSTITUTE OF ACTUARIAL
& QUANTITATIVE STUDIES

Masters in Actuarial Science

University of Mumbai Degree

2 YEARS | FULL TIME



India's Only Accredited Degree Program,
Offering 7 Paper Exemptions
Including CP1.

LEARN



Risk
Modelling



Actuarial Pricing
and Reserving



Portfolio Management &
Business Valuation



Data Science using
R, Python, VBA & more

About IAQS

The 2-Year, Full Time, M.Sc. (Actuarial Science) degree program is offered by Patkar-Varde college (accredited with A+ Level at NAAC) - the University of Mumbai in association with the Institute of Actuarial and Quantitative Studies (IAQS). The course a unique blend of industry-academia tie-ups, bringing real-life experiences to the lecture theatre, enabling students to get industry rich learning experiences.



**Institute
and Faculty
of Actuaries**

M.Sc. (Actuarial Science) is currently the only Post Graduate Program in India that offers exemptions for upto 7 of the IFoA Core Principle subjects - (CM1, CM2, CS1, CS2, CB1, CB2 and CP1).

Graduates from the programme who meet the IFoA's exemption threshold in the relevant university subjects will be eligible for exemption from the corresponding IFoA subjects and will not need to sit the IFoA exam for those subjects.

M.Sc. in Actuarial Science

Term - 2 Years (Full Time)

Degree - University of Mumbai

For whom? - Fresh graduates or working professionals interested in starting their career as an Actuary

8 Reasons to choose M.Sc. Actuarial Science



FAST-TRACK YOUR CAREER

- Covers 10 actuarial papers in 2 years
- 7 papers are covered for exemption



FACULTY

- Industry Experts and Academicians
- 50+ years of cumulative experience



PRACTICAL LEARNING

- Capstone projects with industry connect and job oriented trading



INTERNSHIP PROGRAM

- Immerse into practical learning through internship programs



PLACEMENT CELL

- Dedicated cell for resume building, interview prepping
- 100% job Placement Assistance



CAMPUS

- Situated in the heart of Mumbai, the financial capital of India enabling industry immersion



JOB READY

- Platform that enables students to take lucrative paths



GLOBAL REACH

- International Tie up and internship opportunities

Career Opportunities

This one-of-a-kind degree aims at providing students various career opportunities like:

- Investment Banking
- Data Science
- Actuarial Science
- Risk Modelling
- Equity Research
- Asset - Liability Management
- Financial Analysis
- Private Equity

Softwares Covered



Build a career with our Top Recruiters



Syllabus

Semester 1

- Probability and Statistics
- Financial Mathematics
- Insurance - Principles, Products and Practices
- Introduction to Derivatives and Financial Markets
- Business Finance
- Application of IT - Basic and Advance Excel

Semester 2

- Portfolio Theory and Security Analysis
- Financial Engineering - 1
- Business Economics
- Statistical and Risk Modelling - 1
- Introduction and Modelling in R
- Fixed Income Products

Semester 3

- Statistical and Risk Modelling - 2
- Statistical and Risk Modelling - 3
- Pricing and Reserving for Life Insurance Products - 1
- Actuarial Practice - 1
- Professional Ethics
- Model Documentation Analysis and Reporting
- Application of IT - Python

Semester 4

- Statistical and Risk Modelling - 4
- Pricing and Reserving for Life Insurance Products - 2
- Actuarial Practice - 2
- Predictive Analysis and Machine Learning
- Application on Actuarial Software
- Business Communication
- Project Based Internship

ELIGIBILITY

- Bachelor's degree in any discipline (Commerce / Engineering / IT background / Mathematics) with a minimum of 70% in Semester 5
- If the Semester 5 marks are <70% then students need to give an aptitude test - QAT and Clear a Personal Interview Round


FEES STRUCTURE


The course fees are:
For the 1st year - ₹. 317,335/-
For the 2nd year - ₹. 350,760/-
Fees includes tuition fee, library fee, exam fee, university charges, study material fee and industry training fee

OUTCOME

This one of a kind degree aims at propelling into the profession by offering strong fundamentals in


- Actuarial Science
- Insurance
- Finance
- Investments
- Risk Modelling
- Data Analytics
- Asset - Liability Management

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