

42 YEARS OF
ACADEMIC
EXCELLENCE



B.S. Abdur Rahman®
Crescent
Institute of Science & Technology
Deemed to be University u/s 3 of the UGC Act, 1956

School of Computer Information and Mathematical Sciences

DEPARTMENT OF MATHEMATICS & ACTUARIAL SCIENCE



M.Sc Actuarial Science

Admissions Open 2026-27

» The Department of Mathematics was established in the year 1984 and now been upgraded as Department of Mathematics and Actuarial Science. Over the past few years, the department has acquired national and international importance. This has been achieved by the collective and responsive effort of the faculty, the supporting staff. The department offer courses on M.Sc. Actuarial Science and Ph.D. in Mathematics. The department has 21 faculties with 17 Ph.D. The department has well equipped computer lab consisting with math software's. The department periodically organized seminars and workshops, through the lecturers by industry for the benefit of staff and students.

*Mathematics Give sus Hope that
Every Problem has a Solution*



MESSAGE FROM THE DEAN



Dr. Sharmila Sankar
Professor & Dean (SCIMS)

» The M.Sc. Actuarial Science program at our institute is designed to prepare students for the data-driven financial world by combining mathematics, statistics, and risk analysis. The curriculum aligns with standards from leading actuarial bodies including the Institute and Faculty of Actuaries (UK), Society of Actuaries (USA), and the Institute of Actuaries of India. Students develop core competencies in probability, financial mathematics, life contingencies, and data analytics through hands-on learning and real-world problem solving. The program features experienced faculty who blend academic rigor with practical insights, while encouraging students to pursue actuarial certifications alongside their coursework. Our institute enhances the educational experience through industry collaborations, internships, and expert lectures, aiming to develop ethical, skilled, and globally competitive actuarial leaders.

MESSAGE FROM THE HoD



Dr. Sindhu J. Kumaar
Professor & HOD

» Welcome to the M.Sc. Actuarial Science program at B.S. Abdur Rahman Crescent Institute of Science and Technology. Designed for mathematically inclined graduates, our program blends academic rigor with practical application, aligning with global actuarial standards (IFoA, SOA, IAI). With a multidisciplinary curriculum covering probability, statistics, finance, and risk management, and a focus on actuarial modeling and software tools, students gain both theoretical knowledge and real-world skills. Our experienced faculty, strong industry partnerships, and focus on innovation and research—including areas like climate risk and ESG—ensure graduates are well-prepared for dynamic careers in insurance, banking, pensions, and investments, both in India and globally.

M.Sc. Actuarial Science



Eligibility

B.Sc., Statistics / Mathematics / B.Sc., B.Com., BBA., BCA., B.Tech., B.E., etc with mathematics / Business Mathematics / Applied Mathematics / Statistics as one of the ancillary subjects.



Accredited with "A+"
Grade by NAAC



Guest Lectures and Literary
Activities



Computerized Library with
Reprographic Facilities



Career Guidance &
Counselling



Field visits, internships,
and mini-projects



Separate hostels for
men and women



To provide opportunities of
higher studies in the
professional area of Actuarial
Science.



To develop independent
learning skills and
transferable skills among
the students.



To impart knowledge on various theoretical and practical aspects
of Actuarial Science.



To help the students extend and develop their career plan and
pursue their own professional development.



To provide the students with a structured programme of study
covering all Core Actuarial Science subject contents.



To contribute to the education of academics, allowing the
institute to play an active role in the production of advanced
studies in the areas of the Master in Actuarial Science.

WHAT IS ACTUARIAL SCIENCE

Actuarial science is about calculating money-related risks through probability, Statistics and business Knowledge.



Actuaries evaluate how likely an event may occur and calculate the financial impact.



Studying actuarial science will allow you to develop your mathematical, statistical and analytical skills.

- This is one of the top colleges offering a full-time course in Actuarial Science. The curriculum is designed to align with the IFoA and IAI syllabus, helping students successfully clear Actuarial exams. The faculty is highly supportive, and the department organizes various activities and symposiums to enhance and refine teaching methods.
- Overall experience at the college has been remarkable. The department works closely with Actuarial society and industry professionals, ensuring numerous opportunities and insights for the students, which are crucial for career development.

CURRICULUM & SYLLABI

1st YEAR

SEMESTER - I

- Fundamentals of Financial Mathematics
- Probability and Distributions
- Business Economics
- Financial Reporting and Accounting
- Principles of Insurance
- Actuarial Computational Laboratory (MS-EXCEL)
- Professional Communication

SEMESTER - II

- Applications of Financial Mathematics
- Fundamentals of Life Contingencies
- Descriptive Statistical Methods in Actuarial Science
- Stochastic Models
- Mathematical Statistics
- R-Programming
- Research Methodology and IPR

2nd YEAR

SEMESTER - III

- Applications of Life Contingencies
- Financial Economics
- Applied Statistical Methods in Actuarial Science
- Survival Models
- Actuarial Computational Laboratory Python
- Elective-I
- Elective-II
- Project Phase-I
- Industry Internship#

SEMESTER - IV

- Project Phase-II

LIST OF ELECTIVES

ELECTIVE-I

- Financial Management of Life Office
- Islamic Investments
- Corporate Finance
- Mortality projection & Machine Learning

ELECTIVE-II

- Financial Markets
- Islamic Asset and Fund Management
- Portfolio and Credit Risk Management

CAREER OPPORTUNITIES



Life Insurance



Health Insurance



Health Insurance



Banking



Finance



Investments



Funds Management



Data Analysis



Risk Management



Pension Funds



Consultancies



Reinsurance



Government



Academic Sectors

Events & Achievements



SYMPOSIUM ACTANT 2025



ACTUARIES DAY CELEBRATION 2025



GUEST LECTURE ON AI in FINANCE-2025

EXPERIENCE OF **CRESCENT STUDENTS**



Ayyappan B

Alumni

- “ The faculty plays an instrumental role in this, offering unwavering support and guidance, ensuring that students are well-prepared for the professional world. The college fosters an environment where both academic growth and career advancement go hand in hand, setting students up for long-term success. ”

Anaswara U S

Alumni

- “ As an alumnus of the Actuarial Science program, I can attest to the program's strong academic foundation and its excellent career placement opportunities. The campus recruitment process is highly organized, with top actuarial firms and insurance companies conducting interviews, and mock interviews and career workshops are offered to help students excel. ”



Sivashankar

Student

- “ The faculty plays an instrumental role in this, offering unwavering support and guidance, ensuring that students are well-prepared for the professional world. The college fosters an environment where both academic growth and career advancement go hand in hand, setting students up for long-term success ”

Hiba Himmath

Student

- “ B.A English at Crescent is not just about academic growth but also personal development. The department offers extra courses like NPTEL, workshops, and various English-based activities. On a personal level, we have a dedicated English department club where students can develop essential skills such as leadership, time management and theatre arts. ”



PLACEMENT OPPORTUNITIES



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ADMISSIONS CONTACT

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