

## Bachelor of Science (B.Sc.) Actuarial Science

B.Sc. Actuarial Science is a 3- year long Bachelor’s program, essentially designed to build in students, mathematical skills, real-world business skills, communication, interpersonal and leadership skills, all of which have been identified in the Actuarial discipline as the core skills needed in its personnel. Related fields such as Insurance and Risk Management are also covered in the curriculum.

**Eligibility:** The basic minimum eligibility criteria for pursuing the course are listed here: 10+2 qualification with minimum 60% in aggregate, and minimum 70% in aggregate in Math, or an enrollment to the Institute of Actuaries of India as a Student Member.

A class XII or equivalent qualification with at least 85% in Mathematics or Statistics.

### Course Description:

<b>First Year</b>	
<b>First Semester</b>	<b>Second Semester</b>
Application of Calculus in Actuarial Science [Core Courses]	Country Report [SAP Courses]
Mathematical Functions [Core Courses]	Creating Global New Ventures [SAP Courses]
Probability & Statistical Methods-I [Core Courses]	Modern Trends & Innovative Solutions through Technology Management [SAP Courses]
English Language Usage Essentials [Communication Skills]	Understanding Business Environment in Global Scenario [SAP Courses]
Understanding Self for Effectiveness [Behavioral Science]	Foundation of Regulation of Insurance Business [Human Social Sciences & Management Courses]
Analytical Geometry of 2 Dimension [Allied Courses]	Management Foundation [Human Social Sciences & Management Courses]
General Insurance - I [Allied Courses]	Actuarial Application in I.T.-I [Core Courses]
Life Insurance - I [Allied Courses]	Methods of Applied Mathematics [Core Courses]
Numerical Methods & Application [Allied Courses]	Probability & Statistical Methods-II [Core Courses]
Foreign Business Language	Introduction to Communication Skills [Communication Skills]
Open Elective Courses	Individual Society and Nation [Behavioral Science]
Outdoor Activity Based Courses	General Insurance - II [Allied Courses]
Open Elective Courses	Life Insurance - II [Allied Courses]
Outdoor Activity Based Courses	Foreign Business Language
<b>Second Year</b>	
<b>Third Semester</b>	<b>Fourth Semester</b>
Business Research Methods in Global Environment [SAP Courses]	Country Report [SAP Courses]
Country Report [SAP Courses]	Creating Global New Ventures [SAP Courses]
New Leadership in Cross-cultural context [SAP Courses]	Modern Trends & Innovative Solutions through Technology Management [SAP Courses]
Strategizing using Innovation [SAP Courses]	Understanding Business Environment in Global

	Scenario [SAP Courses]
Minor Project - I [Non-Teaching Credit Courses]	Liability Insurance [Human Social Sciences & Management Courses]
Actuarial Accounting - I [Core Courses]	EMERGENCY RESPONSE AND LIFE-SAVING SKILLS [Domain Elective Courses]
Actuarial Application in I.T.-II [Core Courses]	Actuarial Accounting-II [Core Courses]
Probability & Statistical Methods-III [Core Courses]	Actuarial Application in I.T.-III [Core Courses]
Sampling Techniques [Core Courses]	Fundamental of Life Insurance Underwriting [Core Courses]
Time Value of Money [Core Courses]	Investment Project Appraisal [Core Courses]
Effective Written Communication [Communication Skills]	Principles of Finance [Core Courses]
Problem Solving and Creative Thinking [Behavioral Science]	Probability & Statistical Methods-IV [Core Courses]
Actuarial Economic Models-I [Allied Courses]	Professional Communication for Recruitment and Employability [Communication Skills]
Introduction to Health Insurance [Allied Courses]	Values and Ethics for Personal and Professional Development [Behavioural Science]
<b>Third Year</b>	
<b>Semester 5</b>	<b>Semester 6</b>
Foreign Business Language	Foreign Business Language
Open Elective Courses	Open Elective Courses
Outdoor Activity Based Courses	Outdoor Activity Based Courses