



Bachelor of Science (Honours) Actuarial Science

Vision

To be a global university of educational excellence with transformative societal impact

Mission

Universal values in our beliefs

Tenacity in overcoming challenges

Agility in facing new frontiers

Responsibility in pursuit of excellence

Programme Educational Objectives

PEO 1: Graduates who are able to apply key fundamental mathematical and computational concepts in solving complex business problems.

PEO 2: Graduates who are able to communicate effectively and work together in a diverse team environment, including managing projects and people with different and conflicting ideas.

PEO 3: Graduates who demonstrate independent learning and continuous development and apply the high ethical standards as a contributing member of society.

Programme Outcomes

PO1: Knowledge	Acquire knowledge of the fundamental concepts of financial mathematics, calculus, probability, and statistical theories; and apply them in assets valuations, capital budgeting, liabilities management, valuing contingent cash flows, and quantifying and managing risks and uncertainties.
PO2: Practical skills	Demonstrate skill in collecting data, and in utilizing modern software applications for mathematical computation, actuarial modelling, simulations, statistical analysis, accessing data, and processing data.
PO3: Social skills and responsibilities	Relate the importance of ethics, culture, economics, and human relationships; as well as apply these factors in mathematics related disciplines.
PO4: Values, attitudes and professionalism	Demonstrate the ability to keep ethical standards and to show and commit oneself to professional responsibilities.
PO5: Communication, leadership and team skills	Demonstrate the ability to communicate effectively with individuals from different backgrounds, as well as demonstrate the ability to work in a diverse team as a valued member or as an effective leader.
PO6: Problem solving and scientific skills	Develop theoretical knowledge of actuarial models and relevant scientific methods in order to apply these models and methods to provide justifiable recommendations for identified areas of interest in the insurance and financial industries.
PO7: Information management and life-long learning skills	Demonstrate the ability to engage in life-long self-development and self-learning.
PO8: Managerial and entrepreneurial skills	Acquire skills, including soft skills, to plan, conduct, and manage projects and assignments independently.