



Bachelor of Science (Honours) Financial Mathematics

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 are competent in problem solving in financial and banking industries using mathematical and computational methods.

PEO 2: Graduates who are capable of taking management roles and communicating effectively with other players in their industries.

PEO 3: Graduates practicing professional ethics, life-long learning, and sustainable development for the betterment of the profession and society.

Programme Outcomes

PO1: Knowledge	Demonstrate competency in understanding the concepts and applications of Financial Mathematics
PO2: Practical skills	Exhibit ability to collect financial data, to use computer and mathematical software to access information and process data, and to exercise good judgement in analysing 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 the fundamental theorem of asset pricing and of relevant scientific methods, in order to apply these models and methods or synthesize models to solve problems in financial and banking 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.