



University of Bahrain MICRO-CREDENTIAL



Probability for Risk and Insurance

GENERAL INFORMATION

Duration: 8 weeks

Total Hours: 132 Hours

Fees: 240 BD

Credits: 3 Credits

Degree Program: Bachelor of Actuarial Science (can count towards STAT 271)

Level: undergraduate

Language: English

Pre-requisite: University School Calculus or Equivalent

Venue: University of Bahrain

INSTRUCTOR BIOGRAPHY



Dr. Babacar Seck
Assistant Professor
Mathematics

Ph.D. in Applied Mathematics, École des Ponts Paris-Tech, 2008. He is an Assistant Professor and Coordinator of the Actuarial Science Program at the University of Bahrain, specializing in mathematical finance and optimization. Previously, he taught at several universities in Alberta, Canada.



Micro-credential is a short, focused course designed to equip learners with specific skills and knowledge within a specialized area. It serves as a pathway to earning an equivalent certification for a core course, offering a flexible and targeted learning experience.

COURSE OVERVIEW

This course prepares potential actuaries for international actuarial and risk management accreditation exams, such as SOA-P, IFoA-CS1, and CFA-Level 1. It focuses on fundamental probability tools essential for quantitative risk assessment and introduces key concepts in risk and insurance. Participants will learn about random variables, distributional quantities, raw and centered moments, conditional probability, some probability distributions and applying these tools to solve basic actuarial science problems.

DELIVERY MODE

132 hours (44 contact hours + 88 independent learning hours)

ASSESSMENTS

- 3 Assignments: 30%
- 2 Quizzes: 30%
- Final Exam: 40%

TARGET AUDIENCE

- University students
- Candidates for SOA, IFoA, and CFA Level 1 exams
- Employees in banking, finance, and insurance sectors

KEY TOPICS COVERED

- Refresh on University Calculus I, Descriptive Statistics and Counting Methods
- Probability: Rules and Bayes' Theorem
- Random Variables and Usual Probability Distributions
- Applications in Insurance and Risk Management



Scan the code
for Registration

For further Information, please contact:

Mr. Mohammed Al-Hooti

Tel: +973-33777339

Email: malhooti@uob.edu.bh

<https://microcredentials.uob.edu.bh/>