

# **Bachelor of Finance with Data Science**

**Department of Business & Economics**

**August 28, 2022**



**KARATINA UNIVERSITY**  
Inspiring Innovation and Leadership



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# 1 INTRODUCTION

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## 1.1 Background Information

Karatina University was established as a public university in Kenya through the charter award on 1st March 2013. Situated 15km North of Karatina town, the University aspires to be one of the leading institutions of higher learning in Kenya and beyond. Karatina University offers a quality education that is in tandem with the needs and aspirations of the global village as captured in our vision, mission and core values. The University locality is rich in agricultural soils and borders significant tourist attractions in Kenya: the snow-capped Mount Kenya and Mount Kenya National Park. The serene environment is ideal for learning. This institution started in 2007 as the Mount Kenya campus of Moi University. It had succeeded a tea training institute. In 2010 it became Karatina University College of Moi University and was chartered to a full-fledged University in 2013. The University has six academic schools: School of Agriculture and Biotechnology, School of Business, School of Education and Social Sciences, School of Natural Resources and Environmental Studies, School of Nursing and School of Pure and Applied Sciences.

# 2 PHILOSOPHY OF THE UNIVERSITY

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Karatina University seeks to create a network that creates an environment that integrates disparate disciplines to conserve, create and disseminate knowledge that promotes development in a dynamic and developing society passionate about community outreach, research and innovation. The University shall strive to develop programmes that will nurture leadership skills and innovation in all its graduates, thus enabling them to interact with the worldwide community and develop solutions to various environmental, economic, entrepreneurial, social and scientific issues. These skills shall be facilitated by encouraging intellectual rigour that respects academic freedom and provides the necessary capacity needed by members of the University.

## 2.1 Core Values

The core values of the University are:

Equity  
Teamwork  
Meritocracy  
Academic Freedom  
Accountability  
Excellence  
Probity

## 2.2 Vision

To be a University of global excellence, meeting the dynamic needs and development of society

## 2.3 Mission

To conserve, create and disseminate knowledge through, training, research, innovation and community outreach

# 3 Minimum Admission Requirements

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For admission to the Master of Finance and Investments program, the following requirements shall apply:

1. An undergraduate degree in Finance, Economics, Accounting, Mathematics, Statistics or any related quantitative discipline with a minimum score of second class honours, upper division.

2. Where condition (1) is not met, the applicant shall provide evidence of at least 2 years work experience.

### 3.1 Course Overview

The Master in Finance & Investments program shall comprise the following courses.

Table 1: Course Structure for the Master of Finance and Investments Program

SEM_1	SEM_2	SEM_3	SEM_4
Microeconomics	Finance Macro-environment Analysis	Research Project	Research Project
Financial Econometrics I	Financial Econometrics II	Investments	
Financial Statements Analysis and Disclosures	Corporate Finance and Corporate Governance	Derivatives	
Mathematical Methods for Finance	Financial Economics	Banking Operations and Financial Institutions Management	
Research Methods	Asset Pricing Theory	Elective	

Table 2: Course Structure for the Master of Finance and Investments Program

Year	Semester	Course	Contact_Hours
YEAR1	SEMESTER1	Microeconomics	3
YEAR1	SEMESTER1	Financial Econometrics I	3
YEAR1	SEMESTER1	Investments	3
YEAR1	SEMESTER2	Finance Macro-environment Analysis	3
YEAR1	SEMESTER2	Research Project	45
YEAR1	SEMESTER2	Financial Econometrics II	3
YEAR2	SEMESTER1	Financial Statements Analysis and Disclosures	3
YEAR2	SEMESTER1	Derivatives	3
YEAR2	SEMESTER1	Mathematical Methods for Finance	3
YEAR2	SEMESTER1	Banking Operations and Financial Institutions Management	3
YEAR2	SEMESTER1	Research Methods	3
YEAR2	SEMESTER1	Elective	3
YEAR2	SEMESTER2	Corporate Finance and Corporate Governance	3
YEAR2	SEMESTER2	Financial Economics	3
YEAR2	SEMESTER2	Asset Pricing Theory	3

## 4 Second Section



Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.10	3.50	1.40	0.20	setosa
4.90	3.00	1.40	0.20	setosa
4.70	3.20	1.30	0.20	setosa
4.60	3.10	1.50	0.20	setosa
5.00	3.60	1.40	0.20	setosa
5.40	3.90	1.70	0.40	setosa
4.60	3.40	1.40	0.30	setosa
5.00	3.40	1.50	0.20	setosa
4.40	2.90	1.40	0.20	setosa
4.90	3.10	1.50	0.10	setosa
5.40	3.70	1.50	0.20	setosa
4.80	3.40	1.60	0.20	setosa
4.80	3.00	1.40	0.10	setosa
4.30	3.00	1.10	0.10	setosa
5.80	4.00	1.20	0.20	setosa
5.70	4.40	1.50	0.40	setosa
5.40	3.90	1.30	0.40	setosa
5.10	3.50	1.40	0.30	setosa
5.70	3.80	1.70	0.30	setosa
5.10	3.80	1.50	0.30	setosa