

Faculty of Commerce & Business Administration

Mathematics of Finance

Information :

Course Code : MST 102

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Faculty of Commerce & Business Administration

Instructor Information :

Title	Name	Office hours
Lecturer	Mostafa Sayed Mostafa Abd Elhamed	4

Area Of Study :

The topics included in this subject area represent problem areas found in almost every type of business enterprise. Experience shows that when students readily know the principles involved in each type of calculation they usually are better prepared for problem solving and for more advanced work.

Description :

102: Mathematics of Finance
The course provides step-by-step guidance through sample problems and solutions related to banking, credit, basic finance and investment. You will also gain an understanding of financial instruments and terminology used in business finance such as compound interest, annuities and promissory notes. Simple interest, Compound interest, Simple Annuities, General Annuities, Debit Reduction, Sinking Funds, Capitalization and Wasting Assets, Stocks and bonds.

Course outcomes :

a. Knowledge and Understanding: :

1 -	Understanding the basic concepts and operations of simple interest and simple discount and the associated formulas.
2 -	Understanding the meaning of maturity value that is related to a bank loan and the discount rate and simple discount.
3 -	Knowing the difference between the simple interest and the compound interest.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction to Math of Finance	3	3	0
Chapter 9 - Simple Interest (Ordinary & Exact Interest)	3	3	0
Chapter 9 Simple interest (Principal & Present value)	3	3	0
Chapter 9 Simple Discount (Simple Discount)	3	3	0

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Chapter 10 . Bank Discount and Negotiable Instruments	3	3	0
First Midterm	3	3	0
Chapter 11 . Compound Interest (Present Value)	3	3	0
Chapter 11 . Compound Interest (Compound Discount)	3	3	0
Chapter 11 . Effective annual rate	3	3	0
Chapter 13 . Ordinary Annuities (Present Value of Annuity)	3	3	0
Second Midterm	3	3	0
Chapter 13 . Ordinary Annuities (Periodic Payment)	3	3	0
Chapter 14 . Annuity Due	3	3	0
Exercise	3	3	0
Final Revision	3	3	0

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
1st Mid-Exam	20.00	6	
2nd Midterm	20.00	11	
Attendance & Participation	20.00	13	
Final Exam	40.00	16	