

**Faculty of Commerce & Business Administration**

**Mathematics**

**Information :**

**Course Code :** MST 101

**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	2
Teaching Assistant	Esraa Sayed Adelrahman Madboly	

**Area Of Study :**

Analytical study of functions: linear, quadratic, and exponential functions. Inequalities, matrices and differentiation.

**Description :**

Equations and inequalities, functions and graphs, polynomials, determinants and matrices, systems of equations, differentiation, minima and maxima, point of inflection, integration. Emphasis on business applications, mathematical techniques are developed as needed.

**Course outcomes :**

**a. Knowledge and Understanding: :**

- 1 - Have a strong foundation of basic math skills, concepts, terminology and problem-solving strategies
- 2 - Becoming familiar with mathematical concepts and solving linear, quadratic and inequalities.

**b. Intellectual Skills: :**

- 1 - Be able to present one of the topics with a group.
- 2 - Acquires skills to solve problems in different practical situations

**c. Professional and Practical Skills: :**

- 1 - Differentiate between the different types of first and second degrees functions

**d. General and Transferable Skills: :**

- 1 - Assess problems.
- 2 - Interact efficiently with others.

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
1st Degree Equations	3	3	1
Quadratic (2nd Degree) Equations	3	3	1
Inequalities (1st & 2nd Degree)	3	3	1
Straight Line Equations	3	3	1

### **Course Topic And Contents :**

<b>Topic</b>	<b>No. of hours</b>	<b>Lecture</b>	<b>Tutorial / Practical</b>
Applications ( Breakeven, Revenue& Cost& Profit, Equilibrium ,Supply & Demand)	3		1
First Midterm	2		
Determinants	3	3	1
Determinant ( Cramer's Rule)	3	3	1
Matrices	3	3	1
Matrices	3	3	1
Second Midterm	2		
Differentiation	3	3	1
Integration	3	3	1
Presentation	3	3	1
Final Revision	3	3	1

### **Teaching And Learning Methodologies :**

Text book  
Examples  
Group assignment

### **Course Assessment :**

<b>Methods of assessment</b>	<b>Relative weight %</b>	<b>Week No</b>	<b>Assess What</b>
1st Mid-Exam	20.00	6	
2nd Midterm	20.00	11	
Coursework (Attendance, Assignments, Presentation, Participation)	20.00	13	
Final Exam	40.00	16	