Teaching Plan

Subject Planning

Subject	**MATHEMATICS FOR MANAGEMENT**
Subject Code	**BUM1123**
Credit Hours	3
Faculty	FACULTY OF INDUSTRIAL SCIENCES & TECHNOLOGY
Passing Mark	40

Prerequisite

Equivalency

Synopsis

This subject introduce the use of mathematical technique in the field of business administration and management. The topics introduce to the inequality, matrices, functions and the key business topics such as simple interest, compound interest, promissory notes, trade and cash discount, markup and markdown.

Objective

1. Acquire basic principles and methodologies of mathematics to solve problems.
2. Apply mathematical concepts and techniques in business administration, management and finance.

References

1. J.H. Ronald & J.R. James Mathematical Application for the Management, Life, and Social Sciences, 11th
2. F.H. Ernest, S.P. Richard & J.W. Richard Mathematical Analysis for Business, Economics, and the Life a
3. S. Jeffrey & M. Sharon Practical Business Math Procedures, 10th Edition McGraw - Hill
4. T. Kashyap & T. Chirag Business Mathematics Pearson Education
5. Giri & Banerjee. Introduction to Business Mathematics. Academic Publishers.

Assessment Plan

QUIZ 1	2.5 %
QUIZ 2	2.5 %
QUIZ 3	2.5 %
ASSIGNMENT	5 %
TEST 1	20 %
QUIZ 4	2.5 %
QUIZ 5	2.5 %
TEST 2	20 %
QUIZ 6	2.5 %
FINAL EXAM	40 %

Subject Planning

Week	Chapter	Topic	Assessment
1		Chapter 1: Functions **1.1** Functions **1.2** Combination of Functions **1.3** Composition of Functions	

Week	Chapter	Topic	Assessment	
2		Chapter 1: Functions	QUIZ 1	2.5%
		1.4 Inverse Functions **1.5** Special Functions		
3		Chapter 2: Matrix Algebra	QUIZ 2	2.5%
		2.1 Matrix Notation and Terminology **2.2** Types of Matrix **2.3** Reduced Matrix		
4		Chapter 2: Matrix Algebra		
		2.4 Determinant **2.5** Inverse Matrix **2.6** Application of Matrices		
5		Chapter 3: Inequalities		
		3.1 Inequalities **3.2** Linear and Quadratic Inequalities **3.3** Absolute Value		
6		Chapter 3: Inequalities	QUIZ 3	2.5%
		3.4 Application for one and two variables **3.5** Simplex Method		
7		Chapter 4: Exponential and Logarithmic Functions	ASSIGNMENT QUIZ 4	5% 2.5%
		4.1 Exponential Functions **4.2** Logarithmic Functions **4.3** Logarithmic and Exponential Equations		
8		MID TERM BREAK		
9		Chapter 5: Simple Interest	TEST 1	20%
		5.1 Simple Interest **5.2** Simple Amount		
10		Chapter 5: Simple Interest		
		5.3 Simple Interest for a given Numbers of Day **5.4** Present Value		
11		Chapter 6: Compound Interest	QUIZ 5	2.5%
		6.1 Compound Interest **6.2** Effective, nominal and equivalent rates **6.3** Continuous compounding **6.4** Present Value		
12		Chapter 7: Promissory Note		
		7.1 Promissory Notes **7.2** Maturity Value and Bank Discount		

Week	Chapter	Topic	Assessment	
13	Chapter 7: Promissory Note **7.3** Discounting a Note **7.4** Simple Interest equivalent to Bank Discount		TEST 2	20%
14	Chapter 8: Trade and Cash Discount **8.1** Trade discount **8.2** Cash discount			
15	Chapter 9: Markup and Markdow **9.1** Markup **9.2** Markdown		QUIZ 6	2.5%