Course Title		Basic Mathematics	
Course Code Number		MGT 313	
Year/Semester		I/I	
Credit Hours		03	
Course Objectives:			
Main Objective		This Course is intended to give students an understanding of and competence in some further aspects of mathematics which are applicable to the real world. The course contains fundamental ideas of algebra and calculus.	
Enabling Objectives		 After completion of all the learning units of the course, participants will be able to; Collect, organize, and represent data sets that have one or more variables Understand basic statistics (mean, median, mode, and range) and the meaning of probability. Demonstrate proficiency in the use of mathematics to formulate and solve problems. 	
Learning	Learning	Contents	
Unit (LU)	Hours (LH)		
LUI		Solving of 2 Variable Equations and quadratic Equation, Sets; Introduction Representation, Types, Operations, Number of Elements in a Set and Problems Relating Up to Three Sets, Venn Diagram. Sets of Number: - Natural Numbers Integers, Retinal and Irrational Numbers real Numbers (Introduction and Examples Only) Representation of Real Number on the Real Line. Inequalities and Their Propertied Verification Only, Intervals Modulus of a Real Number and Their Properties, Linear Programming	
LU 2	LH 7	Functions and Graph Mathematics Finance Introduction, Domain Range, Types of Function (Linear Quadratic, Exponential and Logarithmic) and Their Graphs, Problems Involving Cost Revenue, Profit / Loss, Inverses Function, Limit of a Function (Excluding Trigonometric Function)	
LU 3	LH 24	Calculus Derivatives and its Application:- Derivatives of the Function (Including Trigonometric), Second Derivatives, and Their Uses For Optimality Partial Derivatives and its Uses For Optimality of UP to Variables, Marginal Cost / Remove / Profit Elasticity of Demand Integration:- Integration of Algebraic, Logarithmic and Exponential Function	

		Methods off Integration, Subtraction Integration by Parts, Definite Integrates Consumers and Produces Purples
		Martix and Determinant
		Introduction, Algebra of Martix (Sum and Product), Word
		Problems Relating to Matrix Operation, Inverse Matrix,
		Determinations, Introduction, Properties, Problem Related to
		Properties Determinants, Grammar's Rules, Application For Up
		to Three Variables Equations, Word Problems
LU 4	LH 7	Mathematics of Finance
		Laws of Indices, Logarithm Review & Simple Interest
		(Introduction, Formula, Simple Problem, Compound Interest,
		Compound Deprecation Annuities
References		1. Budnick, F. S (1993), Applied Mathematics for Business, Economic and Social Sciences New Delhi MC Graw Hill, INC.
		 Shrestha,K.K and Thagurathi R.K (2008) Applied Mathematics, Second Edition , Buddha Academic Enterprises , Kathmandu. Bajracharya, B.C (2063) Business Mathematics, M. K Publishers and Distributers Bhotahity Kathmandu Nepal

Net Contact Hour is 48 excluding the exams and tests.

evaluation Module: 50 percent will be assessed through the internal evaluation and 50 percent will be assessed through end semester examination