

Course code	TITLE OF THE COURSE	L	T	P	C
ALLIED PAPER I	BUSINESS MATHEMATICS	4	-	-	4
Pre-requisite	Basics Knowledge On Business Mathematics	Syllabus Version		2020	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> 1. Understand and apply basics of applications of mathematics in business 2. Make the students to be ready for calculating various interest rates 3. Provide an insight knowledge about Derivatives 4. Make the students to be ready for solving business problems using mathematical operations. 5. Analyze the linear programming problem by using graphical solution. 					
Expected Course Outcomes:					
On the successful completion of the course, student will be able to:					
1	Understand the financial functions of business mathematics	K2			
2	Know the calculation of interest rates.	K1			
3	Aware of Derivative markets and its calculation.	K2			
4	Know the basic concepts of addition and multiplication analysis.	K2			
5	Analyze the linear programming problem by using graphical solution	K4			
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6- Create					
Unit:1	PROFIT AND LOSS	14 hours			
Profit and Loss - Cost Price, Selling Price, Marked price, Loss, Trade discount and Cash discount, Commission, Brokerage, Problems on these topics					
Unit:2	INTEREST RATES	15 hours			

Interest - Concept of present value, Simple 12 Interest, Compound interest, Amount at the end of period, Equated Monthly Installment (EMI) by reducing and flat interest system, problems..

Unit:3	DERIVATIVES	15 hours
Bond Valuation - Shares - Concept of share, Stock Exchange, Face value, Market Value, Dividend, Equity shares, Preferential shares, Bonus shares, Examples.		
Unit:4	MATRIX	14 hours
Matrices and Determinants - Definition of a Matrix, Types of Matrix, Finding inverse of a matrix by Adjoint method. Solution of a system of linear equations having unique solution and involving not more than three variables problems		
Unit:5	LINEAR PROGRAMMING PROBLEM	14 hours
Linear Programming Problems - Graph of 10 linear equation, Graph of linear inequality, Formulation of LPP, Solution by Graphical method, Problems relating to two variables		
Unit:6	CONTEMPORARY ISSUES	3 hours
Expert lectures, online seminars – webinars		
	Total Lecture hours	75 hours
Text Book(s)		
1	Navanitham, P.A,” Business Mathematics & Statistics” Jai Publishers,Trichy-21	
2	Sundaresan and Jayaseelan,”Introduction to Business Mathematics”,Sultanchand Co&Ltd,Newdelhi	
3	Sanchetti, D.C and Kapoor, V.K,” Business Mathematics” , Sultan chand Co&Ltd,Newdelhi	
Reference Books		
1	G.K.Ranganath, C.S.Sampamgiram&Y.Rajan-A Text book Business Mathematics - Himalaya Publishing House.	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	https://www.youtube.com/watch?v=qO1SYFZVmhY	
2	https://www.youtube.com/watch?v=LadYhkiVC7Q&list=PLRYPMG3pkUJuucxOLmnRC-Lj3PmzVmKCD	

3	https://www.youtube.com/watch?v=qO1SYFZVmhY&list=PLX2gX-ftPVXUYjs2g3YiaY0sEfwW-jg5L
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Course Designed By:
