



Bharati College
(University of Delhi)
Janak Puri, Delhi- 100058
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Lesson Plan (CORE, Semester IV, January to April 2023)

Name of Teacher	Dr Monica Shokeen	Department	__Commerce__ _____
Course	B.Com (Hons)	Semester	IV
Paper	Business Mathematics	Academic Year	2023-24

Learning Objectives

The course aims to familiarize the learners with the basic mathematical tools with special emphasis on application to business and economic situations

Learning Outcomes

On successful completion of this course, the student will be able to:

1. Assess the applicability of matrices as mathematical tools in representing a system of equation
2. Apply differential calculus to solve business problems
3. Evaluate business problems involving linear relationships between decision variables and their determining factors
4. Explain Mathematical formulation and solution of problems related to finance including different methods of interest calculation, future and present value of money
5. Develop programming for business problems involving constrained optimisation

Lesson Plan

Week No.	Theme/Curriculum	Any Additional Information
Week 1-6	Unit I: <ul style="list-style-type: none">• Linear Programming, Formulation, Solution, Graphical Method, Cramers Rule, Determinant Method	Test Scheduled (Syllabus Simplex)

	<ul style="list-style-type: none"> • Simplex- Maximisation, Minimisation, Duality, Shadow Price • Lab- Simplex Using Excel 	
Week 7- 12	Unit 2 <ul style="list-style-type: none"> • Mathematics of Finance, rate of interest, nominal, effective, compounding, depreciation, focal date • Annuities- ordinary, due, and deferred, Capital expenditure, Leasing 	
References 1. Mathematics for Business Studies; Dr. J.K Thukral 2. Business Mathematics; S.K Sharma and Kaur		
AdditionalResources 1.		
OnlineResources (IfAny)		
Assignment and Class TestSchedule forSemester	Link the assignment and Test (optional)	

