DEPARTMENT OF COMMERCE
SHYAM LAL COLLEGE, UNIVERSITY OF DELHI

Course & Sem: B.COM. H Sem III   **Teacher- DR. AMANPREET KAUR**

Subject- Business Mathematics

S.N.	From	To	Topics
Week 1	01-Aug-24	03-Aug-24	Introduction to matrices: Definition and types; Algebra of matrices and Business Applications.
Week 2	05-Aug-24	10-Aug-24	Inverse of a matrix; Solution of system of linear equations using matrix inversion method.
Week 3	12-Aug-24	17-Aug-24	Solution of system of linear equations using Cramer's Rule; Leontief Input Output Model (Open Model Only).
Week 4	19-Aug-24	24-Aug-24	Mathematical functions: linear, quadratic, polynomial.
Week 5	26-Aug-24	31-Aug-24	Exponential, logarithmic, and logistic functions; Concepts of limit and continuity.
Week 6	02-Sep-24	07-Sep-24	Concept of Marginal Analysis; Concept of Elasticity.
Week 7	09-Sep-24	14-Sep-24	Applied Maxima and Minima problems; Economic Order Quantity and Monopolist's Optimum price.
Week 8	16-Sep-24	21-Sep-24	Partial Differentiation: Partial derivatives up to second order; Homogeneity of functions and Euler's theorem.
Week 9	23-Sep-24	28-Sep-24	Total differentials; Differentiation of implicit functions.
Week 10	30-Sep-24	05-Oct-24	Integration: Standard forms & methods; Definite integration and Finding areas.
Week 11	07-Oct-24	12-Oct-24	Application of Integration to marginal analysis; Consumer's and Producer's Surplus.
Week 12	14-Oct-24	19-Oct-24	Rates of interest: nominal, effective and their inter-relationships; Compounding and discounting of a sum.
Week 13	21-Oct-24	26-Oct-24	Applications relating to Depreciation of assets; Types of annuities: ordinary, due, deferred, continuous, perpetual.
Week 14	28-Oct-24	02-Nov-24	**Semester break**

Week 15	04-Nov-24	09-Nov-24	Determination of future and present values; Applications relating to Capital expenditure.
Week 16	11-Nov-24	16-Nov-24	Formulation of Linear programming problems; Graphical solutions of LPPs.
Week 17	18-Nov-24	23-Nov-24	Solution of LPPs by simplex method; The dual problem: Formulation and economic interpretation.
Week 18	25-Nov-24	28-Nov-24	Revision

Teaching Methods :

1 LECTURES
2 PRESENTATIONS
3 PROJECTS

DEPARTMENT OF COMMERCE
SHYAM LAL COLLEGE, UNIVERSITY OF DELHI

Course & Sem: I, III   Teacher- DR. AMANPREET KAUR

Subject- Financial Literacy

S.N.	From	To	Topics
Week 1	01-Aug-24	03-Aug-24	Introduction to Saving
Week 2	05-Aug-24	10-Aug-24	Time value of money
Week 3	12-Aug-24	17-Aug-24	Management of spending and financial discipline
Week 4	19-Aug-24	24-Aug-24	Banking products and services
Week 5	26-Aug-24	31-Aug-24	Digitisation of financial transactions: Debit Cards {ATM Cards)
Week 6	02-Sep-24	07-Sep-24	Security and precautions against Ponzi schemes and online frauds
Week 7	09-Sep-24	14-Sep-24	Credit Cards., Net banking and UPI, digital wallets
Week 8	16-Sep-24	21-Sep-24	Investment opportunity and financial products - 1
Week 9	23-Sep-24	28-Sep-24	Investment opportunity and financial products - 2
Week 10	30-Sep-24	05-Oct-24	Presentations
Week 11	07-Oct-24	12-Oct-24	Presentations
Week 12	14-Oct-24	19-Oct-24	Insurance Planning: Life and non-life including medical insurance schemes
Week 13	21-Oct-24	26-Oct-24	Introduction to basic Tax Structure in India for personal taxation •
Week 14	28-Oct-24	02-Nov-24	**MID SEMESTER BREAK**
Week 15	04-Nov-24	09-Nov-24	Exemptions and deductions for individuals
Week 16	11-Nov-24	16-Nov-24	Aspects of Personal tax planning
Week 17	18-Nov-24	23-Nov-24	e-filing
	25-Nov-24	28-Nov-24	Revisions

Teaching Methods :

LECTURES

1

2 PRESENTATIONS