

Revised Syllabus of courses of B.Com. (Banking & Insurance)

SEMESTER II

FYBBI

Core Course (CC)

7. Quantitative Methods II

Sr. No.	Modules / Units
1	Testing of Hypothesis
	Testing of hypotheses: Null Hypothesis, Alternative Hypothesis, Decision Criterion, Critical Region, Type I and Type II Error, level of significance, Test based on large Sample for Means and Proportion/s
2	Linear Programming Techniques
	Meaning, Advantages, limitations, business applications, basic terminology, formulation of linear Programming Problems, Graphical Method of solving Linear Programming Problems, Simplex method (upto 3 variables) with Maximisation and Minimisation. Duality in Linear Programming (concept only)
3	Matrices & Determinants (Application in Business and Economics)
	Matrices, Types of Matrices, Transpose, Addition, Multiplication, Subtraction of a Matrix, Determinants, Type of Determinants, inverse of a matrix by Pivotal Reduction Method, Adjoint Method and Row / Column Transformation. Application of Matrices and Determinants to Business and Economics. (Please concentrate on application of Matrices and Determinants to Business & Economics)
4	Ratio, Proportion & Percentage
	Ratio Definition, Continued Ratio, Inverse Ratio, Proportion, Continued Proportion, Direct Proportion, Inverse proportion, Variation, Inverse Variation, Joint Variation, Percentage: Meaning & Computation of Percentage.
5	Statistical Applications In Investment Management
	Expected return from shares (using probability) Measuring total risk from investigator shares (using standard deviations) Partitioning risk into systematic and unsystematic component (using co-variance) Measuring risks of portfolio (using co-relation) to draw conclusions regarding share prices (using testing of hypothesis).
6	Economic indicators
	GDP, Real growth in GDP price level Inflation rate, Money supply, Index for agricultural production Index for industrial production, Electrical