COMMERCIAL MATHEMATICS AND STATISTICS

SYLLABUS FOR HIGHER SECONDARY FINAL YEAR COURSE

One Paper **Three Hours** **Marks 100**

Unitwise Distribution of Marks and Periods :

Unit No	Title	Marks	Periods
	GROUP-A : COMMERCIAL MATHEMATICS (60 Marks)		
Unit - 1	Simple and Compound Interest	15	30
Unit - 2	Linear inequalities	25	50
Unit - 3	(a) Set Theory (b) Determinants (c) Matrices	20	40
	GROUP - B : STATISTICS (40 Marks)		
Unit - 4	Statistical Average Positional measures }	12	25
Unit - 5	Measures of Dispersion (Variation)	12	25
Unit - 6	(a) Probability (b) Correlation }	16	30
	Total	**100**	**200**

Unitwise Distribution of Course contents :

GROUP-A : COMMERCIAL MATHEMATICS (60 Marks)

Unit-1 : **Simple and Compound Interest :** Simple and Compound Interest, Annuity

Unit-2 : **Linear inequalities :** Linear inequalities and their graphical representation, Permutation & Combination (Elementary ideas and simple problems), Mathematical Induction (Simple problems), Binomial Theorem for positive Integral Index (Omit Binomial Co-efficient)

Unit-3 :

(a) **Set Theory :** (Elementary Ideas), Elements, Types of Sets, Subsets (Proper and improper), Union, Intersection and Difference of Set, Complement of Set, Venn Diagram, Application of Sets (Simple Problems)

(b) **Determinants :** (Up to 3rd order), Meaning, Properties and Simple problems, Solution of equation by Cramer's Rule

(c) **Matrices :** Definition and type of Matrices, Equality of Matrices, Addition, Subtraction, Scalar Multiplication and Matrix Multiplication, (Adjoint and Inverse matrices should be excluded)