XI Mathematics Commerce Part I
Competency statements

Sr. No	Area	Topic	Competency Statements
1	Sets and Relations	Sets	The student will be able to • work with sets and set functions. • construct sets from given conditions/description/rule. • solve problems using set theory.
		Relations	• identify the types of relations. • use relations to associate different sets. • verify equality, equivalence or other relationships between given sets.
2	Functions	Functions	• work with function defined on different domains. • identify different types of functions. • carry out complicated operations on functions.
3	Complex Numbers	Complex Numbers	• simplify algebraic expressions involving complex numbers.
4	Sequence and series	Sequence	• identify the type of a given sequence. • find the general term of given sequence.
		Series	• identify the type of a given series • find the nth term of a given series • find the sum of the first n terms of a given series • find the sum to infinite terms of a given series
5	Locus and Straight Line	Locus and Straight Line	• find equation of a straight line satisfying given conditions • identify properties of given set of straight lines
6	Determinats	Determinants	• find value of a determinant. • simplify determinant. • solve linear equations in 2/3 variables, find area of triangle using determinants.
7	Limits	Limits	• find limit of a function • determine whether a given function has a limit
8	Continuity	Continuity	• determine whether a given function is continuous at a given point • determine whether a given function is continuous over a specified interval • identify points of discontinuity of a given function
9	Differentiation	Differentiation	• differentiate algebraic functions

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