

Class XI SESSION: 2023-24 MATHEMATICS

Learning Objectives:

The broad objectives of teaching Mathematics at senior school stage intend to help the students:

- To acquire knowledge and critical understanding, particularly by way of motivation and visualization, of basic concepts, terms, principles, symbols and mastery of underlying processes and skills
- To feel the flow of reasons while proving a result or solving a problem.
- To apply the knowledge and skills acquired to solve problems and wherever possible, by more than one method.
- To develop positive attitude to think, analyze and articulate logically
- To develop interest in the subject by participating in related competitions.
- To acquaint students with different aspects of Mathematics used in daily life.
- To develop an interest in students to study Mathematics as a discipline.
- To develop awareness of the need for national integration, protection of the environment, observance of small family norms, removal of social barriers, elimination of gender biases.
- To develop reverence and respect towards great Mathematicians for their contributions to the field of Mathematics.

Curriculum Division:

- UT – 1:
Chapter 1 – Sets
Chapter 2 - Relation and functions
- TERM 1: Chapter 1 – sets
Chapter 2 – relations and functions
Chapter 3 – trigonometric functions
Chapter 4 – complex numbers and quadratic
- UT 2:
Chapter 7 – binomials
Chapter 8 – sequence and series equations
Chapter 5 – linear inequalities
Chapter 6 – permutations and combinations
- TERM 2:
Chapter 7 – binomial theorem
Chapter 8 – sequence and series
Chapter 9 – straight lines
Chapter 10 – conic sections
Chapter 11 – introduction to 3-d geometry
Chapter 12 – limits and derivatives
Chapter 13 – statistics
Chapter 14 – probability
- FINAL TERM: Term 1 + Term 2