## SYLLABUS BREAKUP (2022-23) SUBJECT: MATHEMATICS CLASS XI

## **AUGUST**

TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) CHAPTER 1. SETS [7] [a] Sets and their Representations [b] Empty Set, Finite and Infinite Sets, Equal Sets [c] Subsets, Power Sets, Universal Set [d] Venn Diagram, Operation on Sets [e] Complements of a set, Problems on Union and Intersection of Two Sets [e] Complements of a set, Problems on Union and Intersection of Two Sets [e] Complements of a set, Problems on Union and Intersection of Two Sets [e] Caresian product of Sets [f] I 1 [g] Acatesian product of Sets [g] Types of functions [g] Types of functions [g] Types of functions  SEPTEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: [g] Addition and Subtraction Formulae [g] Signs of Trigonometric Functions [g] Signs of Trigonometric Functions [g] Addition and Subtraction Formulae [g] Conversion of sum & difference into product [g] Conversion of sum & difference into product [g] Conversion of sum & difference into product into sum and difference [g] Jefinition of Complex Numbers [g] Application of Complex Numbers [g] Algebra of Complex Numbers and Problems [g] Algebra of Subtraction of Complex Numbers [g] Algebra of Complex Numbers and Problems [g] Algebra of Complex Numbers [g] Algebra of Complex Numbers [g] Algebra of Com	A00031	
[a] Sets and their Representations [b] Empty Set, Finite and Infinite Sets, Equal Sets [c] Subsets, Power Sets, Universal Set 2 [d] Venn Diagram, Operation on Sets [e] Complements of a set, Problems on Union and Intersection of Two Sets 2 2. RELATIONS AND FUNCTIONS [9] [a] Cartesian product of Sets [b] Relations 2 [c] Functions 2 [d] Domain & Range 2 [e] Types of functions 2  SEPTEMBER TOTAL NUMBER OF WORKING DAYS: 12 Days (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees 1 [b] Signs of Trigonometric Functions 19] [c] Addition and Subtraction Formulae 11 [d] Conversion of sum & difference 12 [f] Identities related to Multiple and Sub-multiple angles. 2  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS 2 [a] Definition of Complex Numbers 12 [b] Algebra of Complex Numbers 22 [d] Argand plane and Problems 22 [d] Argand plane and Problems 22  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: 35 Days (app.) 49 periods (app.) 5 Days (app.) 6 Days (app.) 7 Days (app.) 8 Days (app.) 9 Days (a	TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: CHAPTER	16 periods (app.) NO. OF PERIODS
[b] Empty Set, Finite and Infinite Sets, Equal Sets [c] Subsets, Power Sets, Universal Set [d] Venn Diagram, Operation on Sets [e] Complements of a set, Problems on Union and Intersection of Two Sets 2. RELATIONS AND FUNCTIONS [9] [a] Cartesian product of Sets [b] Relations [c] Functions [d] Domain & Range [e] Types of functions  SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers [c] Geometrical Representation of Complex Numbers [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems [e] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Permutations and Restricted Permutations [c] Combination [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination [1] [5] [6] [6] [7] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7		[7]
[c] Subsets, Power Sets, Universal Set [d] Venn Diagram, Operation on Sets [e] Complements of a set, Problems on Union and Intersection of Two Sets 2 2. RELATIONS AND FUNCTIONS [9] [a] Cartesian product of Sets [b] Relations [c] Functions [d] Domain & Range [e] Types of functions  SEPTEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: [a] Measuring Angles in Radians and Degrees [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  2  COCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  C] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  C] Geometrical Representation of Complex Numbers [d] Argand plane and Problems [e] Geometrical Representation of Lomplex Numbers [d] Argand plane and Problems  C] Geometrical Representation of Complex Numbers [d] Argand plane and Problems [e] Geometrical Representation of Lomplex Numbers [f] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Permutations and Restricted Permutations [9] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Permutations and Restricted Permutations [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [1] [2] [2] [2] [2] [2] [2] [3] [4] [5] [5] [6] [6] [6] [6] [7] [7] [7] [7] [7] [7] [7] [7] [7] [7	[a] Sets and their Representations	1
Id   Venn Diagram, Operation on Sets   2   2   2   2   2   2   2   2   2	[b] Empty Set, Finite and Infinite Sets, Equal Sets	1
[e] Complements of a set, Problems on Union and Intersection of Two Sets 2. RELATIONS AND FUNCTIONS [9] [a] Cartesian product of Sets [c] Functions [c] Functions [d] Domain & Range [e] Types of functions  SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: [TOTAL NUMBER OF WORKING DAYS: [TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **SET** NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  **DOTOBER & NOVEMBER**  **TOTAL NUMBER OF PERIODS INVOLVED IN T	[c] Subsets, Power Sets, Universal Set	2
2. RELATIONS AND FUNCTIONS [a] Cartesian product of Sets [b] Relations [c] Functions [d] Domain & Range [e] Types of functions  2 [d] Domain & Range [e] Types of functions  2 [e] TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  2 [f] Identities related to Multiple and Sub-multiple angles.  2 [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 [d] Argand plane and Problems  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Permutations and Restricted Permutations [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination [1]	[d] Venn Diagram, Operation on Sets	1
2. RELATIONS AND FUNCTIONS [a] Cartesian product of Sets [b] Relations [c] Functions [d] Domain & Range [e] Types of functions  2 [d] Domain & Range [e] Types of functions  2 [e] TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  2 [f] Identities related to Multiple and Sub-multiple angles.  2 [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 [d] Argand plane and Problems  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Permutations and Restricted Permutations [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination [1]	[e] Complements of a set. Problems on Union and Intersection of Two Sets	2
[a] Cartesian product of Sets [b] Relations [c] Functions [d] Domain & Range [e] Types of functions  SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees [b) Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 COTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  1 (9) [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination 3 (2) [c] Combination 3 (3)	,	[9]
[b] Relations 2 [c] Functions 2 [d] Domain & Range 2 [e] Types of functions 2  SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: 12 Days (app.) TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees 1 [b) Signs of Trigonometric Functions 1 [c] Addition and Subtraction Formulae 1 [d] Conversion of sum & difference into product 2 [e] Conversion of product into sum and difference 2 [f] Identities related to Multiple and Sub-multiple angles. 2  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers 1 [b) Algebra of Complex Numbers and Problems 2 [c] Geometrical Representation of Complex Numbers 2 [d] Argand plane and Problems 2 [c] Geometrical Representation of Tomplex Numbers 3 [d] Argand plane and Problems 3  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: 35 Days (app.)  TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b) Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b) Permutations and Restricted Permutations 2 [c] Combination 3		
[c] Functions [d] Domain & Range [e] Types of functions  SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [a] Measuring Angles in Radians and Degrees [b) Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  2  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination 3	·	
[d] Domain & Range [e] Types of functions 2  SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: 12 Days (app.) TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees 1 [b) Signs of Trigonometric Functions 1 [c] Addition and Subtraction Formulae 1 [d] Conversion of sum & difference into product 2 [e] Conversion of product into sum and difference 2 [f] Identities related to Multiple and Sub-multiple angles. 2  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers 1 [b) Algebra of Complex Numbers 2 [c] Geometrical Representation of Complex Numbers 2 [d] Argand plane and Problems 2 [d] Argand plane and Problems 35 Days (app.)  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: 35 Days (app.)  TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b] Permutations and Restricted Permutations 2 [c] Combination 3		
SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 16 periods (app.) 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees 1 [b) Signs of Trigonometric Functions [c] Addition and Subtraction Formulae 1 [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference 2 [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b) Algebra of Complex Numbers 2 [c] Geometrical Representation of Complex Numbers 2 [d] Argand plane and Problems  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b) Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b) Permutations and Restricted Permutations 2 [c] Combination 3 3		
SEPTEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 3. TRIGONOMETRIC FUNCTIONS [9]  [a] Measuring Angles in Radians and Degrees [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems [5]  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [5] Permutations and Restricted Permutations [6] Combination [7]  12 Days (app.) 12 Days (app.) 14 Days (app.) 15 Days (app.) 16 Days (app.) 17 Days (app.) 18 Days (app.) 19 Degramutations and Restricted Permutations [9] [9] [1] Fundamental Principle of Counting and Factorial Notation [1] Days (app.) [1] Days (app.) [2] Combination [1] Days (app.) [1] Days (app.) [2] Combination [3] Days (app.)		
TOTAL NUMBER OF WORKING DAYS:  TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 3. TRIGONOMETRIC FUNCTIONS [9] [a] Measuring Angles in Radians and Degrees 1 [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae 1 [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations 2 [c] Combination 3 3 12 Days (app.)	[e] Types of functions	2
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 3. TRIGONOMETRIC FUNCTIONS [9]  [a] Measuring Angles in Radians and Degrees 1 [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae 1 [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems 2 [d] Argand plane and Problems  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations 2 [c] Combination 3	SEPTEMBER	
3. TRIGONOMETRIC FUNCTIONS   [9]     [a] Measuring Angles in Radians and Degrees   1     [b] Signs of Trigonometric Functions   1     [c] Addition and Subtraction Formulae   1     [d] Conversion of sum & difference into product   2     [e] Conversion of product into sum and difference   2     [f] Identities related to Multiple and Sub-multiple angles.   2     4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS   [7]     [a] Definition of Complex Numbers   1     [b] Algebra of Complex Numbers and Problems   2     [c] Geometrical Representation of Complex Numbers   2     [d] Argand plane and Problems   2    OCTOBER & NOVEMBER   35 Days (app.)    TOTAL NUMBER OF WORKING DAYS:   35 Days (app.)    TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:   49 periods (app.)    5. LINEAR INEQUALITIES   [3]     [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line.   2     [b] Problems   1    6. PERMUTATION AND COMBINATION   [9]     [a] Fundamental Principle of Counting and Factorial Notation   1     [b] Permutations and Restricted Permutations   2     [c] Combination   3	TOTAL NUMBER OF WORKING DAYS:	12 Days (app.)
[a] Measuring Angles in Radians and Degrees [b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems 2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations 2 [c] Combination 3	TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	16 periods (app.)
[b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 [d] Argand plane and Problems  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  3  1  1  1  1  1  1  1  1  1  1  1  1	3. TRIGONOMETRIC FUNCTIONS	[9]
[b] Signs of Trigonometric Functions [c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 [d] Argand plane and Problems  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  3  1  1  1  1  1  1  1  1  1  1  1  1	[a] Measuring Angles in Radians and Degrees	1
[c] Addition and Subtraction Formulae [d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 [d] Argand plane and Problems  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  3		1
[d] Conversion of sum & difference into product [e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2 [d] Argand plane and Problems  35 Days (app.)  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  3		
[e] Conversion of product into sum and difference [f] Identities related to Multiple and Sub-multiple angles.  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7] [a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination 3		
[f] Identities related to Multiple and Sub-multiple angles. 2  4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS [7]  [a] Definition of Complex Numbers 1  [b] Algebra of Complex Numbers and Problems 2  [c] Geometrical Representation of Complex Numbers 2  [d] Argand plane and Problems 2  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: 35 Days (app.)  TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [3]  [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2  [b] Problems 1  6. PERMUTATION AND COMBINATION [9]  [a] Fundamental Principle of Counting and Factorial Notation 1  [b] Permutations and Restricted Permutations 2  [c] Combination 3	·	
4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS  [a] Definition of Complex Numbers  [b] Algebra of Complex Numbers and Problems  [c] Geometrical Representation of Complex Numbers  [d] Argand plane and Problems  2  [d] Argand plane and Problems  2  OCTOBER & NOVEMBER  TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES  [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line.  [b] Problems  6. PERMUTATION AND COMBINATION  [a] Fundamental Principle of Counting and Factorial Notation  [b] Permutations and Restricted Permutations  [c] Combination  3  [7]  [7]  [7]  [8]  [9]	•	
[a] Definition of Complex Numbers [b] Algebra of Complex Numbers and Problems [c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems 2 [d] Argand plane and Problems 2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 35 Days (app.)  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination 3	[1] Identities related to Multiple and Sub-multiple angles.	2
[b] Algebra of Complex Numbers and Problems 2 [c] Geometrical Representation of Complex Numbers 2 [d] Argand plane and Problems 2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: 35 Days (app.) TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b] Permutations and Restricted Permutations 2 [c] Combination 3	4. COMPLEX NUMBERS AND QUADRATIC EQUATIONS	[7]
[c] Geometrical Representation of Complex Numbers [d] Argand plane and Problems  2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: 35 Days (app.) TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b] Permutations and Restricted Permutations 2 [c] Combination 3	[a] Definition of Complex Numbers	1
[d] Argand plane and Problems 2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: 35 Days (app.) TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b] Permutations and Restricted Permutations 2 [c] Combination 3	[b] Algebra of Complex Numbers and Problems	2
[d] Argand plane and Problems 2  OCTOBER & NOVEMBER TOTAL NUMBER OF WORKING DAYS: 35 Days (app.) TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING: 49 periods (app.)  5. LINEAR INEQUALITIES [3] [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b] Permutations and Restricted Permutations 2 [c] Combination 3	[c] Geometrical Representation of Complex Numbers	2
TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  35 Days (app.)  49 periods (app.)  [3]  [3]	·	
TOTAL NUMBER OF WORKING DAYS: TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  35 Days (app.)  49 periods (app.)  [3]  [3]	OCTOBER & NOVEMBER	
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:  5. LINEAR INEQUALITIES [a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line. [b] Problems  6. PERMUTATION AND COMBINATION [a] Fundamental Principle of Counting and Factorial Notation [b] Permutations and Restricted Permutations [c] Combination  49 periods (app.)  [3]  [9]		35 Days (ann.)
[a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line.2[b] Problems16. PERMUTATION AND COMBINATION[9][a] Fundamental Principle of Counting and Factorial Notation1[b] Permutations and Restricted Permutations2[c] Combination3		
[a] Algebraic Solutions of Linear Inequalities in one variable and their representation on number line.2[b] Problems16. PERMUTATION AND COMBINATION[9][a] Fundamental Principle of Counting and Factorial Notation1[b] Permutations and Restricted Permutations2[c] Combination3	5. LINEAR INEQUALITIES	[3]
their representation on number line. 2 [b] Problems 1  6. PERMUTATION AND COMBINATION [9] [a] Fundamental Principle of Counting and Factorial Notation 1 [b] Permutations and Restricted Permutations 2 [c] Combination 3		L- J
[b] Problems 1  6. PERMUTATION AND COMBINATION [9]  [a] Fundamental Principle of Counting and Factorial Notation 1  [b] Permutations and Restricted Permutations 2  [c] Combination 3	-	2
6. PERMUTATION AND COMBINATION  [a] Fundamental Principle of Counting and Factorial Notation  [b] Permutations and Restricted Permutations  [c] Combination  [9]  2  3	·	
[a] Fundamental Principle of Counting and Factorial Notation1[b] Permutations and Restricted Permutations2[c] Combination3	[D] I IODICIIIS	1
[b] Permutations and Restricted Permutations2[c] Combination3	6. PERMUTATION AND COMBINATION	[9]
[c] Combination 3	[a] Fundamental Principle of Counting and Factorial Notation	1
	[b] Permutations and Restricted Permutations	2
	[c] Combination	3
[a] restens inverving remarkation at combination seem	[d] Problems involving Permutation & Combination both	3

7. BINC	MIAL THEOREM	[7]
[a] Bind	mial Theorem for Positive Integral Indices	2
	eral and Middle Theorem	2
[c] Pro	blem Discussions	3
8. SEQU	JENCES AND SERIES	[10]
[a] Aritl	nmetic Progression	3
[b] Geo	metric Progression	4
	tionship between A.M. and G.M.	2
[d] Sum	of infinite G.P.	1
9. STRA	IGHT LINE	[12]
[a] Intro	oduction	1
[b] Slop	e of Line	2
[c] Vari	ous forms of equation of a line parallel to axis, point -slope form,	
Slope line.	e-intercept form, two-point form, intercept form, Distance of a point from a	3
[d] Gen	eral Equation of a line and angle between two lines	3
[e] Dista	ance of a point from a line and Distance between parallel lines	2
[f] Prob	lems	1
10. CON	NIC SECTION	[8]
[a] Sect	ion of a Cone	1
[b] Circ		2
[c] Para	bola	2
[d] Ellip	se	2
[e] Hyp	erbola & Problems	1
DECEMBER & J	ANUARY	
	NUMBER OF WORKING DAYS: NUMBER OF PERIODS INVOLVED IN TEACHING:	23 Days (app.) 30 periods (app.)
11. LIM	ITS & DERIVATIVES	[10]
[a] Intro	oduction	1
[b] Limi		1
	ts of Trigonometric Functions	2
[d] Prob		2
[e] Deri		2
[f] Prob	lems	2
12. STA	TISTICS	[8]
[a] Mea	sures of Dispersion	2
= = :	ge Mean Deviation	2
[c] Vari	ance and Standard Deviation	4
	DBABILITY	[12]
[a] Rand	dom Experiments	2
[b] Ever	nts and Types of Events	3
<del></del>	matic Approach to Probability	3
اما الما	olom Disquesion	1

[d] Problem Discussion

## **FEBRUARY**

TOTAL NUMBER OF WORKING DAYS:	10 Days (app.)	
TOTAL NUMBER OF PERIODS INVOLVED IN TEACHING:	14 periods (app.)	
14. INTRODUCTION TO THREE DIMENSIONAL GEOMETRY	[5]	
[a] Co-ordinate Geometry and Planes in 3-D Space	2	
[b] Co-ordinate of a point in Space	1	
[c] Distance Formula	1	
[d] Section Formula & Problems	1	
REVISION	[9]	