



MAYO COLLEGE
Academic Curriculum - 2021-22
Subject - APPLIED MATHEMATICS
CLASS – XII

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	PRE BOARDS
Matrices and Determinants	Matrices and Determinants	Matrices and Determinants	Matrices and Determinants
Application of derivatives	Application of derivatives	Application of derivatives	Application of derivatives
Integration	Integration	Integration	Integration
Differential Equation	Differential Equation	Differential Equation	Differential Equation
	Linear Programming	Linear Programming	Linear Programming
	Probability	Probability	Probability
	Financial Mathematics	Financial Mathematics	Financial Mathematics
	Index numbers and Time-based data	Index numbers and Time-based data	Index numbers and Time-based data
		Numbers, Quantification and Numerical Applications	Numbers, Quantification and Numerical Applications
		Inferential Statistics	Inferential Statistics



MAYO COLLEGE
Academic Curriculum - 2021-22
Subject - STANDARD MATHEMATICS
CLASS – XII

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	PRE BOARDS
Matrices	Integrals	Matrices	Matrices
Determinants	Application of Integrals	Determinants	Determinants
Inverse Trigonometric Functions	Differential Equations	Inverse Trigonometric Functions	Inverse Trigonometric Functions
Continuity and Differentiability	Vector Algebra	Continuity and Differentiability	Continuity And Differentiability
Application of Derivatives	Inverse Trigonometric Functions	Application of Derivatives	Application Of Derivatives
		Integrals	Integrals
		Application of Integrals	Application Of Integrals
		Differential Equations	Differential Equations
		Vector Algebra	Vector Algebra
		Three-Dimensional Geometry	Three-Dimensional Geometry
		Linear Programming	Linear Programming
		Probability	Probability
		Relations and Functions	Relations and Functions



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CLASS – XI

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	FINALS
Trigonometric Functions	Trigonometric Functions	Trigonometric Functions	Sets
Principle of Mathematical Induction	Complex Numbers and Quadratic Equations	Principle of Mathematical Induction	Relations and Functions
	Linear Inequalities	Complex Numbers and Quadratic Equations	Trigonometric Functions
	Permutation and Combination	Linear Inequalities	Principle of Mathematical Induction
	Binomial Theorem	Permutation and Combination	Complex Numbers and Quadratic Equations
	Sequence and Series	Binomial Theorem	Linear Inequalities
		Sequence and Series	Permutation and Combination
		Straight Lines	Binomial Theorem
		Conic Sections	Sequence and Series
		Introduction to 3D - Geometry	Straight Lines
			Conic Sections
			Introduction to 3D - Geometry
			Limits and Derivatives
			Statistics
			Probability



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ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	FINALS
Number Theory	Number Theory	Number Theory	Number Theory
Logarithm and Antilogarithm	Logarithm and Antilogarithm	Logarithm and Antilogarithm	Logarithm and Antilogarithm
Numerical Applications	Numerical Applications	Numerical Applications	Numerical Applications
Set Theory	Set Theory	Set Theory	Set Theory
	Relations	Relations	Relations
	Sequence and Series	Sequence and Series	Sequence and Series
	Permutations and Combinations	Permutations and Combinations	Permutations and Combinations
	Mathematical and Logical reasoning	Mathematical and Logical reasoning	Mathematical and Logical reasoning
	Probability	Functions	Functions
		Limits and Continuity	Limits and Continuity
		Differentiation	Differentiation
		Tangents and Normals	Tangents and Normals
		Probability	Probability
			Data Analysis
			Data Interpretation
			Correlation
			Application of Statistics
			Simple and Compound Interest
			Annuity
			Taxation
			Bills
			Straight Line
			Circle
			Parabola



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CLASS – X

PERIODIC ASSESSMENT – 1	PERIODIC ASSESSMENT - 2	PERIODIC ASSESSMENT – 3	PRE BOARD
Real Numbers	Introduction to Trigonometry	Triangles	Real Numbers
Polynomials	Applications of Trigonometry	Circles	Polynomials
Pair of Linear Equations in two Variables	Statistics	Areas Related to Circles	Pair of Linear Equations in Two Variables
Quadratic Equation	Probability	Surface Area and Volumes	Quadratic Equation
Arithmetic Progression	Constructions		Arithmetic Progression
Coordinate Geometry			Coordinate Geometry
			Surface Areas & Volumes
			Introduction to Trigonometry
			Applications of Trigonometry
			Statistics
			Probability
			Constructions
			Triangles
			Circles
			Areas Related to Circles



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CLASS – IX

ASSESSMENT 1	ASSESSMENT 2	HALF YEARLY	FINALS
Number System	Euclid's Geometry	Quadrilaterals	Constructions
Polynomials	Lines and Angles	Area of parallelograms and triangles	Heron's formula
Coordinate Geometry	Triangles	Circles	Surface areas and volumes
Linear equations in two variables	Probability	Statistics	Number System
			Polynomials
			Coordinate Geometry
			Linear equations in two variables
			Euclid's Geometry
			Lines and Angles
			Triangles
			Probability
			Quadrilaterals
			Area of parallelograms and triangles
			Circles
			Statistics



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Subject - Mathematics
CLASS – VIII

Periodic Assessment-1	Periodic Assessment-2	Periodic Assessment-3	CIE Checkpoint
Integers, powers and roots	Length, mass, capacity and time	Area, Perimeter and Volume	Integers, powers and roots
Sequences and functions	Expressions and formulae	Ratio and Proportion	Sequences and functions
Place value, ordering and rounding	Percentages	Equations and Inequalities	Place value, ordering and rounding
Fractions	Probability	Graphs	Fractions
Planning and collecting data	Processing and presenting data	Interpreting and discussing results	Planning and collecting data
Shapes	Constructions and Pythagoras Theorem	Bearings and scale drawings	Shapes
		Tessellations, transformation and loci	Length, mass, capacity and time
			Expressions and formulae
			Percentages
			Probability
			Processing and presenting data
			Constructions and Pythagoras Theorem
			Area, Perimeter and Volume
			Ratio and Proportion
			Equations and Inequalities
			Graphs
			Interpreting and discussing results
			Bearings and scale drawings
			Tessellations, transformation and loci



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CLASS – VII

Periodic Assessment-1	Periodic Assessment-2	Periodic Assessment-3	CIE Checkpoint
Integers, Powers and Roots	Angles	Simplifying Expressions and Solving Equations	Integers, Powers and Roots
Sequences, Expressions and Formulae	Planning and Collecting Data	Processing and Presenting Data	Sequences, Expressions and Formulae
Place Value, Ordering and Rounding	Fractions	Graphs	Place Value, Ordering and Rounding
Length Mass and Capacity	Percentages	Probability	Length Mass and Capacity
	Ratio and Proportion		Angles
			Planning and Collecting Data
			Fractions
			Percentages
			Ratio and Proportion
			Simplifying Expressions and Solving Equations
			Processing and Presenting Data
			Graphs
			Probability
			Area, Perimeter and Volume
			Interpreting and Discussing Results
			Construction
			Shapes and Geometric Reasoning
			Position and Movement