Class – XII Subject- Mathematics Syllabus

Month	Name of	Teaching	Revision	
Michigan	Chapter	Contents	Period	period
April	Relations and Functions	Introduction Types of Relations Types of Functions Binary operations Introduction Basic Concepts	19	3
	Inverse Trigonometric Functions			
May	Matrices Determinants	Introductions Matrix Types of Matrices Operations on Matrices. Transpose of a Matrix. Symmetric and Skew Symmetric Matrices Introduction Determinant Area of Triangles. Minors and cofactors. Adjoint and Inverse of a Matrix.	20	3
		Application of Determinants and Matrices.		
June		Summer Vacation		No. 1 total
CONTRACTOR OF THE PROPERTY OF	Continuity and	Introduction	19	3
July	Continuity and Differentiability	Continuity Differentiability. Exponential and Logarithmic Functions Logarithmic Differentiation Derivatives of Functions in Parametric Forms Second order Derivatives	19	J
August	Application of	Introductions	19	3
. rogant	Derivatives	Increasing and Decreasing Functions Tangents and Normals.		

		Maxima and Minima		
September	Integrals	Introduction Integration as an Inverse Process of Differentiation Method of Integration Integrals of Some Particular Functions Integration by partial fractions	5	10
		Integration by Parts.		
October	Application of Integrals Differential Equations	Fundamental theorm of Calculus Evaluation Definite Integrals by substitutions. Some Properties of Definite Intergrals Introduction Area Under simple Curve, Introduction Basic Concepts General and Particular solutions of a Differential Method of solving First order, First degree Differential Equation	17	3
November	Probability	Introduction Conditional Probability Multiplication Theorm on Probability Independent Events Bayes Theorm. Random Variables Bernoulli Trials	14	3
December	Vectors Linear Programming	Introduction Some Basic Concepts Types of Vectors Addition of Vectors Multiplication of vector by a scalar Product of Two vectors Introduction Linear Programming Problems and its Mathematical Formulation.	15	3
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	Dimensional Geometry	Direction cosines and Direction ratio of a line Equation of a line in space Shortest Distance between Two lines Planes Co planarity of Two lines Distance of a point from a plane.	
February		Revision	
March		Examination	

Deleted Exercises and topic for the session 2021-22 is as under:

- 1 Exercise 7.7
- Exercise 9.3
- 3 Linear differential equation type dy/dx+Py=Q
- 4 Misc. Example.
- 5 Mean and variance of Random Variables