

## SYLLABUS 2021-2022

STANDARD: 12

SUBJECT: BUSINESS MATHEMATICS & STATISTICS

MONTH	Total No. Of Unit	UNIT	TOPICS
January	2	4. Differential Equations	4.1 Formation of ordinary differential Equations 4.1.1 Definition of ordinary differential equation 4.1.2 Order and degree of a differential equation 4.1.3 Formation of ordinary differential equation: 4.2 First order and first degree differential equations 4.2.1 General solution and particular solution 4.2.2 Differential Equation in which variables are separable 4.2.3 Homogeneous Differential Equations
		5. Numerical Methods	5.1 Finite Differences 5.1.1 Forward Difference Operator, Backward Difference Operator and Shifting Operator 5.1.2 Finding the missing terms 5.2 Interpolation 5.2.1 Methods of interpolation 5.2.2 Graphical method 5.2.3 Algebraic method



February	2	6. Random Variable and Mathematical Expectation	6.1. Random variable 6.1.1 Definition of a random variable 6.1.2 Discrete random variable 6.1.3 Continuous random variable 6.2. Mathematical Expectation 6.2.1 Expected value and Variance 6.2.2 Properties of Mathematical expectation
		7. Probability Distributions	7.1 Distribution 7.1.1 Binomial distribution 7.1.2 Poisson Distribution