

Odd Semester Lesson Plan

Teacher name: **Ms. Sujata**

Subject: **BC-105 BUSINESSMATHEMATICS-I**

October 2020

Logarithms, Anti-logarithms Sequences and Series: Arithmetic & Geometric Progressions.
Differentiation: Idea of simple derivative of different functions (excluding Trigonometrical functions);
Rules of differentiation (simple standard forms).

November 2020

Maxima and Minima of functions of one variable (including 2nd or 3rd order derivatives) relating to cost, revenue and profit.

December 2020

Matrices and Determinants: concept of matrix, types, and algebra of matrices; properties of determinants; calculation of values of determinants up to third order, adjoint of a matrix, elementary row or column operations;

January 2021

Finding inverse of a matrix through adjoint and elementary row or column operations; solution of a system of linear equations having unique solution and involving not more than three variables.

February 2021

Compound Interest and Annuities: different types of interest rates, concept of present value and amount of a sum; types of annuities; present value and amount of an annuity (including the case of continuous compounding); valuation of simple loans and debentures; problems relating to sinking funds.