

CBS111 Mathematics for Business and Social Sciences 1 (3 Units)

Department of Economics

Covenant University

1. CBS111

1.1. CBS111 Mathematics for Business and Social Sciences 1 (3 Units)

This course introduces the students to the basic mathematical concepts required in the analysis of problems in Business and Social Sciences. Topics to be covered include:

Set theory

Elementary algebra the real number system; equation and identities; equation in one or two variables, simultaneous equation, the remainder theorem. Partial fraction, surds, indices and logarithms.

Basic mathematics for Accounting and Finance: Simple Interest, Compound Interest and Amortisation, Annuity and sinking fund, Average due dates and discounting of notes.

Sequence and Series; AP and GP series; symmetry of series, convergence of series.

Permutation, combination, binomial theorem.

Co-ordinate geometry of a straight line, intersection of two straight lines, plotting of curves, computation of distances and areas of co-ordinates.

Elementary trigonometry.

Omega Semester