

FCE 262: Engineering Mathematics IB Course Description

The course covers the following key areas; Ordinary Differential Equations : First order differential equations, second order and higher order equations with constant coefficients. Applications. Complex Numbers: Geometry of the complex plans, elementary functions, roots of complex numbers, De Moivres theorem. Vector Algebra: Scalar, vector and triple products. Derivative of a vector. Applications. Matrices and Linear Equations: Elementary matrix operations, inverses, determinants, solution of simultaneous linear equation.