

St. Mary's College
Cape Pure Mathematics
Unit2
Course Outline

Term1

Module1

Analysis, Matrices and Complex Numbers

1. Complex numbers
2. Differentiation II techniques of special function
3. Integration II of special functions

TERM2

Module2

Sequences, Series and approximation

1. Sequences including recurrence relations
2. Series
3. Binomial Theorem
4. Errors
5. Roots of equations

TERM3

Module 3

Counting, Matrices and Differential Equations

1. Counting- permutations and combinations
2. Matrices and systems of linear equations
3. Differential Equations and real life application of differential equations