INTRODUCTION TO INTEGRAL CALCULUS

Course Title: Integral Calculus

Course Code: PCMATCC05

Total Hours: 30 Hrs

Syllabus:

UNIT I (12 hours)

Introduction to Integration, Integral as an anti-derivative, Fundamental integrals involving algebraic, trigonometric, exponential and logarithmic functions.

Unit II (10 hours)

Integrations by substitutions, Integration by parts, Integration using trigonometric identities

Unit III (8 hours)

Application of integration- Finding the area under a curve, length of a curve

References:

1. S. Narayanan and Dr P K Mittal, Integral Calculus, S Chand publications.
2. George B. Thomas Jr. Maurice D. Weir, Thomas Calculus 12th Edition, Pearson Publication

ASSESSMENT PROCEDURE

Certificates will be awarded to all the candidates who successfully complete the following assessment criteria:

1. 75% of attendance

2. More than 30 % mark in the exit test.