

SACRED HEART COLLEGE (AUTONOMOUS)
DEPARTMENT OF MATHEMATICS
17MATVAC01

PRECALCULUS TECHNIQUES

Course objectives

This course is intended to give the students basic ideas of integration and its applications.

Course outcomes

As outcomes of this course the student should master the following:

- 1) To identify integral as an area
- 2) To evaluate indefinite integral
- 3) To find the indefinite integral using substitution
- 4) To evaluate definite integral
- 5) To apply ideas of definite integral Geometry, Science, Engineering etc.

Text book

Calculus, Anton and Bivens


Module-1 (15 hrs) (section 5.1 -5.6)

Area problem, indefinite integral, substitution, definite integral,

Module -2 (15 hrs) (section 6.1 -6.6)

Area between to curves, volume by slicing, disk and washers, volume by cylindrical shells, length of plane curve, surface area of revolution, work




Dr. Johnson X Palackappillil
Principal
Sacred Heart College (Autonomous)
Thevara, Kochi-682 013