

M-106: Integral Calculus

Group No 15500 Time : 8--9 (room 1A41 B4)

Group No 1726 Time : 10--11 (room 1A75 B4)

The definite integrals, fundamental theorem of calculus, the indefinite integral, change of variable, numerical integration. Area, volume of revolution, work, arc length. Differentiation and integration of inverse trigonometric functions. The logarithmic, exponential, hyperbolic and inverse hyperbolic functions. Techniques of integration: substitution, by parts, trigonometric substitutions, partial fractions, miscellaneous substitutions. Indeterminate forms, improper integrals. Polar coordinates. Parametric Equations of curves.